



## ecology and environment engineering, p.c.

Global Environmental Specialists

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June 16, 2016

Mr. William Welling, Project Manager  
New York State Department of Environmental Conservation  
Division of Environmental Remediation  
625 Broadway, 12th Floor  
Albany, New York 12233 - 7013

Re: Mr. C's Dry Cleaners Site, NYSDEC Site Number 9-15-157,  
Work Assignment D007617-11, 2016 Interim Groundwater Monitoring Results

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEP) is pleased to provide this interim Groundwater Monitoring Results report for the Mr. C's Dry Cleaners Site. The report presents the analytical results for samples collected in April and May 2016. The groundwater monitoring effort, analytical requirements, and quality assurance/quality control (QA/QC) review were performed in accordance with the approved Site Management Plan (SMP; February 2015). At the request of the New York State Department of Environmental Conservation (NYSDEC), the complete results from this 2016 groundwater monitoring event will be presented in the 2016 Periodic Review Report. This letter report presents a summary of the analytical results, pertinent field information, validation of the analytical results, and a discussion of the findings.

The groundwater monitoring program around the Mr. C's site has been performed under EEEPC's Standby Contract since 2003. Based on the analytical results for samples collected during this period, the groundwater beneath and around the Mr. C's site continues to contain elevated levels of several volatile organic compounds (VOCs), including chlorinated solvents, their breakdown by-products, and aromatic hydrocarbons. The primary contaminant of concern (COC) in the groundwater is tetrachloroethene (PCE).

Fieldwork was performed by EEEPC personnel from April 25 through May 2, 2016. The groundwater sampling was performed at this time to evaluate the contamination concentrations after the groundwater treatment system had been deactivated for three months.

A total of 28 wells and four piezometers in the network were sampled during the April/May 2016 interim groundwater monitoring event. Duplicate samples for analytical QC were taken from monitoring well MPI-4S and piezometer PZ-3B.

### **Well Purging and Sampling Procedures**

The sampled monitoring wells and piezometers were purged prior to sampling in accordance with Appendix I of the SMP, which requires that all wells be pumped using one of two methods: low-flow purging and sampling, or standard purging and sampling. The monitoring wells and piezometers sampled during the 2016 sampling event were sampled using the low-flow sampling method. Thirteen of the monitoring wells (MPI-12B, PW-7, MW-4, MW-5, ESI-4/EE-1, MW-10, MW-14, MPI-10B, ESI-1/ESI-1 replacement, RW-1, EE-4, MPI-5I, and MW-6) and one piezometer (PZ-5B) were not sampled due to field access issues.

The monitoring wells were purged using a submersible pump with new or dedicated polyethylene tubing or disposable polyethylene bailers on new polypropylene line. New polypropylene line was used for the bioremediation performance monitoring wells and piezometers. Before purging, static water levels were measured to within  $\pm 0.01$  foot in each well using a Solinst water level meter.

The monitoring wells were purged of approximately three to five times the volume (or more) of water standing in the well. Purged water from the monitoring wells was containerized and transported to the on-site treatment facility for processing. Temperature, pH, specific conductance, turbidity, and oxygen reduction potential were measured and recorded, at a minimum, before purging, after each well volume was purged, and just before sampling using a LaMotte 2020 turbidity meter, YSI Pro Plus Quatro flow-through cell, and/or a Myron 6P Ultrameter II (water parameter kit). Purging was performed until pH, specific conductance, and temperature had stabilized and turbidity was 50 nephelometric turbidity units or less. The individual well purge and sampling field records prepared by EEEPC are provided in Attachment A. The water level in each piezometer and monitoring well was also recorded by the Iyer Environmental Group, PLLC (IEG) during the three-month period of treatment system deactivation. The IEG field records are provided in Attachment B.

The samples collected as part of the interm monitoring program were analyzed for VOCs by Eurofins Spectrum Analytical, Inc. (formerly Spectrum Analytical, Inc.) using U.S. Environmental Protection Agency (EPA) Method 8260. A summary of the positive detections of VOCs is presented in Table 1. The complete analytical results for the sampling event will be provided in electronic form through EQUIS, and a copy of the laboratory reports will be provided in the 2016 Periodic Review Report.

### **Groundwater Monitoring Results**

Figures 1 and 2 summarize historical and recent event VOC concentrations detected across the site. Figures 3 and 4 summarize PCE and total VOCs in groundwater and were generated using Surfer modeling software. Figure 3 is based on Surfer software modeling interpretation of the iso-contours and shows the PCE contaminant plume. The iso-contours on Figure 4 represents PCE and the total of the other detected VOCs within the plume, including: trichloroethene [TCE], cis-1,2-dichloroethene [cis-DCE], trans-1,2-dichloroethene [trans-DCE], 1,1-dichloroethene, and vinyl chloride. Figures 5A, 5B, and 5C present groundwater contour isopleth maps developed from the depth-to-groundwater measurements taken by IEG for March, April, and May of 2016. Figure 5D presents a groundwater contour isopleth map developed from depth-to-groundwater measurements taken by EEEPC in April 2016.

Table 1 provides the analytical results for the groundwater samples from each monitoring well. Bold values shown in the table denote positive analytical results. Highlighted boxes in the table denote values that exceed either NYSDEC's groundwater standards or guidance values.<sup>1</sup>

The groundwater monitoring results are summarized below.

- Seven VOCs (chloroform, PCE, TCE, cis-DCE, trans-DCE, vinyl chloride, and methyl-tert-butyl [MTBE]) were detected in the April/May 2016 groundwater samples at levels that exceed their NYSDEC Class GA groundwater standards and the guidance values used to screen the groundwater data.
- Three VOCs (1,1,1-trichloroethane, acetone, and methyl acetate) were detected in the April/May 2016 groundwater samples. These compounds either have no applicable standard or guidance value or were detected at levels below their NYSDEC Class GA groundwater standards and below the guidance values used to screen the groundwater data.
- PCE was detected above the groundwater standard (5 micrograms per liter [ $\mu\text{g/L}$ ]) in 15 well samples and three piezometer samples collected across the site. The highest concentration of PCE (5,600  $\mu\text{g/L}$ ) was detected in a sample collected from piezometer PZ-5A. Historically, the highest concentration of PCE has been detected in samples collected from monitoring wells MPI-6S and PW-6. PCE in MPI-6S has been reduced from 6,800  $\mu\text{g/L}$  in 2012, before bioremediation, to non-detectable in the April/May 2016 sample.
- TCE was detected above the groundwater standard (5  $\mu\text{g/L}$ ) in six well samples and three piezometer samples collected across the site. The highest concentration of TCE, 210  $\mu\text{g/L}$ , was detected in the sample collected from monitoring well EE-2.
- cis-DCE was detected above the groundwater standard (5  $\mu\text{g/L}$ ) in 10 well samples and two piezometer samples collected across the site. The highest concentration of cis-DCE (910  $\mu\text{g/L}$ ) was detected in the sample collected from piezometer PZ-6A.
- trans-DCE was detected in the sample collected from MW-8 at a concentration of 13  $\mu\text{g/L}$ , above the groundwater standard of 5  $\mu\text{g/L}$ .
- Vinyl chloride was detected above its groundwater standard (2  $\mu\text{g/L}$ ) in five wells and one piezometer. The highest concentration of vinyl chloride (110  $\mu\text{g/L}$ ) was detected in a sample collected from monitoring well MPI-4I. Since 2013, vinyl chloride has increased in concentration in four monitoring wells and decreased in concentration in five monitoring wells. The results from the remaining monitoring wells and piezometers could not be compared to the guidance standards because they were not sampled in 2016.
- MTBE was detected above the groundwater guidance level (10  $\mu\text{g/L}$ ) in four wells and one piezometer. The highest concentration of MTBE (340  $\mu\text{g/L}$ ) was detected in well MPI-4I.

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<sup>1</sup> New York State Department of Conservation. 1998. Division of Water Technical and Operational Guidance Series (1.1.1): *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, Division of Water, Albany, New York.

### **Quality Control/Quality Assurance and Data Review**

The analytical data were independently validated in accordance with the requirements of the Quality Assurance Project Plan (Appendix K of the SMP, February 2015). Any deviations from acceptable QC specifications are discussed in the Data Usability Summary Report provided as Attachment C. Field duplicates and matrix spike/matrix spike duplicates were collected for QA/QC purposes. Several results were qualified and one QA/QC issue was noted.

- The coolers associated with SDG R0366 were received at 6.2 and 6.5°C. However, based on professional judgment, this did not impact the usability of the data.
- Sample MW-7-APR16 was analyzed one day outside of the holding time, resulting in detected compounds qualified with J (estimated) and non-detected compounds qualified with UR (rejected non-detect). The April 2016 sample results were within the range of historical results for MW-7. These results are applicable for the analysis.
- Surrogate recovery was above the laboratory QC limits for sample PW-2-APR16, resulting in detected compounds qualified with J (estimated).
- PCE recovery was below the laboratory QC limits. However, the concentration was greater than four times the spike concentration; therefore, the results were reported without qualification.
- The following samples were diluted and reported with elevated reporting limits for all analytes: EE-2-APR16, ESI-6-APR16, MW-7-APR16, PW-5-APR16, PZ-5A-APR16, and PZ-6A-APR16. There were instances where the elevated reporting limit exceeded the screening level; therefore, analyte concentrations may exceed the screening level.
- Rinsate blanks were not collected from non-dedicated equipment.

In summary, no major concerns were encountered regarding the usability of the analytical data collected for this report.

### **Discussion of Findings**

The April/May 2016 sampling was performed to assess the rebound, or increase, in contaminant levels that were expected to result from deactivation of the groundwater treatment system over a three-month period. Rebound is a phenomenon usually observed after pump-and-treat processes have stopped and sorbed chemicals equilibrate with aqueous concentrations. Pump-and-treat operations, such as those at the Mr. C's site, have several limitations, one of which is the sorption of chemicals on the soil matrix. Equilibrium is not always achieved instantaneously, but rather over a long period, which would explain why rebound occurs only after pump-and-treat stops. At the Mr. C's site, and especially in the vicinity of the recent bioremediation pilot study, rebound may also occur as PCE and its degradation products are reduced. For example, as the groundwater PCE concentration decreases, PCE sorbed to the soil matrix will move to reestablish equilibrium with the aqueous phase and PCE concentrations will rebound.

Increases in contaminant levels may also be caused by groundwater transport. The groundwater elevation isopleths developed during active pumping operations (see Figure 5 of the 2015 Long-term Groundwater Monitoring Report, October 2015) show groundwater drawdown and capture in the locations of active groundwater pumping systems. However, the 2016 groundwater

isopleths shown on Figures 5A, 5B, and 5C, which were developed based on data collected when the groundwater extraction system had been deactivated for three months, indicate groundwater flow to the west-northwest. The depth-to-groundwater measurements taken by EEEPC (Figure 5D), also with the groundwater treatment system deactivated, indicate groundwater flow to the northwest. The groundwater elevations during the April/May 2016 sampling period were approximately 1.5 to 2 feet higher than when the system was operational.

Prior to operation of the pump-and-treat system, the remedial investigation isopotential groundwater map showed a groundwater flow divide in the center of the site, which accounted for the branching of the contaminant plume, with one branch moving to the northwest and extending beyond the Town of Aurora Public Library, and one moving southwest to slightly beyond the First Presbyterian Church. The 2016 groundwater isopleths show additional evidence of this divide, which may affect transport at the edges of the contaminant plume. However, groundwater flow in the vicinity of the monitoring wells in which the highest concentrations of PCE and cis-DCE were detected in 2016 is in line with bulk groundwater flow to the west-northwest.

The analytical results of the 2016 sampling event were compared to the results of the 2015 sampling event, which occurred prior to deactivation of the groundwater treatment system. The results of the comparison of the 2015 and 2016 sample results are provided below.

- PCE increased in seven monitoring wells (EE-2, MPI-4S, MPI-15B, PW-6A, MPI-2S/MPI-2SR, ESI-3, and MPI-5S) and one piezometer (PZ-8C).
- PCE decreased in 16 monitoring wells (ESI-6, EE-3, MPI-4I, MPI-9S/MPI-9SR, MPI-14B/MPI-14BR, PW-5, PW-4, MPI-13B/MPI-13BR, PW-8, PW-6, MPI-1S, PW-2, MW-11, MPI-7I/MPI-IR, PW-3, and MW-7) and two piezometers (PZ-5A and PZ-3B).
- The analytical results for four monitoring wells (MPI-4I, MPI-9S/MPI-9SR, PW-8, and PW-2) showed a decrease in PCE but an increase in daughter products of PCE.
  - The results for monitoring wells MPI-4I and MPI-9S/MPI-9SR showed an increase in MTBE.
  - The results for monitoring well PW-8 showed an increase in only TCE.
  - The results for monitoring well PW-2 showed an increase in TCE and cis-DCE.
- The results for three monitoring wells (MPI-3S, MPI-6S, and MW-8) were nondetect in both 2015 and 2016; when compared to the results for 2014, PCE had decreased in all three wells.
- The PCE results for two monitoring wells (ESI-5/ESI-5R and ESI-2/ESI-2R) were non-detect for three or more sampling events; therefore, the concentration track for these wells could not be determined.

The Surfer-generated concentration contours on Figures 3 and 4 (PCE and Total VOCs in Groundwater) for 2015 and 2016 were generally similar. However, the contours indicate a continued increase in the amount of PCE breakdown by-products.

William Welling

June 16, 2016

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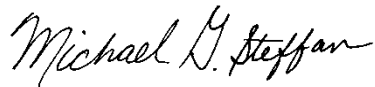
There is only limited evidence of PCE rebound stemming from pump-and-treat system shut-down. Of the eight wells/piezometers where PCE increases were observed, only four (ESI-3, MPI-4S, PW-6A, and PZ-8C) were within about 50 feet of a pumping well.

Increased PCE concentrations at sentinel well MPI-15B and wells on the fringe of the plume (MPI-5S and MPI-2S) are more likely to be a result of groundwater transport stemming from reduced hydraulic control in the absence of the pump-and-treat system.

If you have any questions or comments regarding this report, please contact me at (716) 684-8060.

Sincerely,

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.

A handwritten signature in black ink that reads "Michael G. Steffan". The signature is written in a cursive, flowing style.

Michael G. Steffan  
Project Manager

Attachments

cc: Mr. Dave Szymanski, NYSDEC Region 9 – w/Attachments

## TABLE



**Table 1 Summary of Positive Analytical Results for Groundwater Samples  
Mr. C's Dry Cleaners Site, East Aurora, New York**

| Analyte                                    | Location ID: |       | EE-2       | EE-3       | ESI-2-R   | ESI-3     | ESI-5-R   | ESI-6     | MPI-13B-R  | MPI-14B-R  | MPI-15B  |
|--------------------------------------------|--------------|-------|------------|------------|-----------|-----------|-----------|-----------|------------|------------|----------|
|                                            | Sample Name: |       | APR16      | APR16      | MAY16     | APR16     | APR16     | APR16     | MAY16      | MAY16      | MAY16    |
|                                            | Depth:       |       | 22 - 32 ft | 18 - 28 ft | 9 - 19 ft | 7 - 17 ft | 5 - 15 ft | 7 - 17 ft | 17 - 32 ft | 15 - 30 ft | 0 - 0 ft |
|                                            | Date:        |       | 04/27/16   | 04/29/16   | 05/02/16  | 04/26/16  | 04/27/16  | 04/29/16  | 05/02/16   | 05/02/16   | 05/02/16 |
| Screening Criteria <sup>(1)</sup>          |              | Notes |            |            |           |           |           |           |            |            |          |
| Volatile Organics by Method SW8260C (µg/L) |              |       |            |            |           |           |           |           |            |            |          |
| 1,1,1-Trichloroethane                      | 5            |       |            | 2.0 U      | 0.50 U    | 0.50 U    | 1.2 J     | 0.50 U    | 1.3 U      | 0.50 U     | 0.50 U   |
| Acetone                                    | 50           | G     |            | 8.8 U      | 2.2 U     | 2.2 U     | 2.2 U     | 2.2 U     | 5.5 U      | 2.2 U      | 2.2 U    |
| Chloroform                                 | 7            |       |            | 1.3 U      | 0.33 U    | 0.33 U    | 0.33 U    | 0.33 U    | 0.83 U     | 0.33 U     | 0.33 U   |
| Cis-1,2-Dichloroethylene                   | 5            |       |            | 200        | 11        | 0.48 U    | 0.48 U    | 0.48 U    | 7.6 J      | 0.48 U     | 0.48 U   |
| Methyl Acetate                             |              |       |            | 1.2 U      | 0.29 U    | 0.29 U    | 0.29 U    | 0.29 U    | 0.73 U     | 0.29 U     | 0.29 U   |
| Methyl tert-Butyl Ether (MTBE)             | 10           | G     |            | 13 J       | 20        | 0.24 U    | 0.24 U    | 0.24 U    | 0.60 U     | 0.24 U     | 0.24 U   |
| Tetrachloroethylene (PCE)                  | 5            |       |            | 400        | 0.65 U    | 0.65 U    | 150       | 0.65 U    | 240        | 2.1 J      | 7.2      |
| Trans-1,2-Dichloroethene                   | 5            |       |            | 2.6 U      | 0.65 U    | 0.65 U    | 0.65 U    | 0.65 U    | 1.6 U      | 0.65 U     | 0.65 U   |
| Trichloroethylene (TCE)                    | 5            |       |            | 210        | 0.36 U    | 0.36 U    | 0.36 U    | 0.36 U    | 14         | 0.36 U     | 0.36 U   |
| Vinyl Chloride                             | 2            |       |            | 2.0 U      | 0.50 U    | 0.50 U    | 0.50 U    | 0.50 U    | 1.3 U      | 0.50 U     | 0.50 U   |

**Key:**

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

UR = Not detected/rejected (data not usable)

Notes

G = Guidance value (no standard available)

µg/L = Micrograms per liter

"Q" denotes field duplicate sample

1. New York State Department of Environmental Conservation,  
Technical and Operational Guidance Series Memorandum #1.1.1:

*Ambient Water Quality Standards and Guidance Values and  
Groundwater Effluent Limitations*, 1998 (with updates), Class GA  
Groundwater Standards and Guidance Values.

2. Bold values denote positive hits.

3. Shaded cell exceeds groundwater  
standard.

**Table 1 Summary of Positive Analytical Results for Groundwater Samples  
Mr. C's Dry Cleaners Site, East Aurora, New York**

| Analyte                                    | Location ID: |       | MPI-1S    | MPI-2S-R  | MPI-3S    | MPI-4I     | MPI-4S     | MPI-4S     | MPI-5S    | MPI-6S     | MPI-7I-R   |
|--------------------------------------------|--------------|-------|-----------|-----------|-----------|------------|------------|------------|-----------|------------|------------|
|                                            | Sample Name: |       | APR16     | APR16     | APR16     | APR16      | APR16      | Q          | APR16     | APR16      | APR16      |
|                                            | Depth:       |       | 9 - 19 ft | 8 - 18 ft | 8 - 18 ft | 32 - 42 ft | 11 - 21 ft | 11 - 21 ft | 8 - 18 ft | 12 - 22 ft | 29 - 39 ft |
|                                            | Date:        |       | 04/29/16  | 04/29/16  | 04/29/16  | 04/28/16   | 04/28/16   | 04/28/16   | 04/25/16  | 04/28/16   | 04/25/16   |
| Screening Criteria <sup>(1)</sup>          |              | Notes |           |           |           |            |            |            |           |            |            |
| Volatile Organics by Method SW8260C (µg/L) |              |       |           |           |           |            |            |            |           |            |            |
| 1,1,1-Trichloroethane                      | 5            |       |           | 0.50 U    | 3.0 J     | 0.50 U     | 0.50 U     | 0.50 U     | 0.50 U    | 0.50 U     | 0.50 U     |
| Acetone                                    | 50           | G     |           | 2.2 U     | 2.2 U     | 2.2 U      | 2.2 U      | 2.2 U      | 2.2 U     | 7.4        | 2.2 U      |
| Chloroform                                 | 7            |       |           | 0.33 U    | 7.7       | 0.33 U     | 0.33 U     | 0.33 U     | 0.33 U    | 0.33 U     | 0.33 U     |
| Cis-1,2-Dichloroethylene                   | 5            |       |           | 2.4 J     | 0.48 U    | 0.48 U     | 290        | 11         | 11        | 4.2 J      | 27         |
| Methyl Acetate                             |              |       |           | 0.29 U    | 0.29 U    | 0.29 U     | 0.29 U     | 0.29 U     | 0.29 U    | 1.8 J      | 0.29 U     |
| Methyl tert-Butyl Ether (MTBE)             | 10           | G     |           | 0.24 U    | 0.24 U    | 27         | 340        | 0.24 U     | 0.24 U    | 0.24 U     | 0.24 U     |
| Tetrachloroethylene (PCE)                  | 5            |       |           | 18        | 2.5 J     | 0.65 U     | 9.1        | 4.9 J      | 4.2 J     | 33         | 0.65 U     |
| Trans-1,2-Dichloroethene                   | 5            |       |           | 0.65 U    | 0.65 U    | 0.65 U     | 0.65 U     | 0.65 U     | 0.65 U    | 2.8 J      | 1.7 J      |
| Trichloroethylene (TCE)                    | 5            |       |           | 0.36 U    | 0.36 U    | 0.36 U     | 4.3 J      | 0.36 U     | 0.36 U    | 6.5        | 0.36 U     |
| Vinyl Chloride                             | 2            |       |           | 0.50 U    | 0.50 U    | 0.50 U     | 110        | 1.7 J      | 1.5 J     | 2.3 J      | 13         |

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2. Bold values denote positive hits.

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**Table 1 Summary of Positive Analytical Results for Groundwater Samples  
Mr. C's Dry Cleaners Site, East Aurora, New York**

| Analyte                                    | Location ID: |       | MPI-8S-R  | MPI-9S-R  | MW-11      | MW-7      | MW-8      | PW-2       | PW-3       | PW-4       | PW-5       |       |
|--------------------------------------------|--------------|-------|-----------|-----------|------------|-----------|-----------|------------|------------|------------|------------|-------|
|                                            | Sample Name: |       | APR16     | APR16     | APR16      | APR16     | APR16     | APR16      | APR16      | APR16      | APR16      |       |
|                                            | Depth:       |       | 8 - 18 ft | 8 - 18 ft | 10 - 20 ft | 5 - 15 ft | 5 - 15 ft | 18 - 28 ft | 18 - 28 ft | 18 - 28 ft | 18 - 28 ft |       |
|                                            | Date:        |       | 04/28/16  | 04/28/16  | 04/26/16   | 04/26/16  | 04/25/16  | 04/26/16   | 04/26/16   | 04/26/16   | 04/26/16   |       |
| Screening Criteria <sup>(1)</sup>          |              | Notes |           |           |            |           |           |            |            |            |            |       |
| Volatile Organics by Method SW8260C (µg/L) |              |       |           |           |            |           |           |            |            |            |            |       |
| 1,1,1-Trichloroethane                      | 5            |       |           | 0.50 U    | 0.50 U     | 0.50 U    | 5.0 UR    | 0.50 U     | 0.50 U     | 0.50 U     | 0.50 U     | 2.5 U |
| Acetone                                    | 50           | G     |           | 2.2 U     | 2.2 U      | 2.2 U     | 22 UR     | 2.2 U      | 8.8 J      | 11         | 17         | 11 U  |
| Chloroform                                 | 7            |       |           | 0.33 U    | 0.33 U     | 0.33 U    | 3.3 UR    | 0.33 U     | 0.33 U     | 0.33 U     | 0.33 U     | 1.7 U |
| Cis-1,2-Dichloroethylene                   | 5            |       |           | 62        | 0.48 U     | 0.48 U    | 4.8 UR    | 17         | 1.1 J      | 0.48 U     | 0.48 U     | 120   |
| Methyl Acetate                             |              |       |           | 0.29 U    | 0.29 U     | 0.29 U    | 2.9 UR    | 0.29 U     | 0.29 U     | 0.29 U     | 0.29 U     | 1.5 U |
| Methyl tert-Butyl Ether (MTBE)             | 10           | G     |           | 0.24 U    | 7.5        | 0.24 U    | 2.4 UR    | 0.24 U     | 0.24 U     | 0.24 U     | 0.24 U     | 1.2 U |
| Tetrachloroethylene (PCE)                  | 5            |       |           | 140       | 0.65 U     | 1100      | 600 J     | 0.65 U     | 270        | 2.3 J      | 120        | 620   |
| Trans-1,2-Dichloroethene                   | 5            |       |           | 2.2 J     | 0.65 U     | 0.65 U    | 6.5 UR    | 13         | 0.65 U     | 0.65 U     | 0.65 U     | 3.3 U |
| Trichloroethylene (TCE)                    | 5            |       |           | 13        | 0.36 U     | 3.6 J     | 3.6 UR    | 2.3 J      | 2.4 J      | 0.36 U     | 1.6 J      | 59    |
| Vinyl Chloride                             | 2            |       |           | 1.4 J     | 0.50 U     | 0.50 U    | 5.0 UR    | 8.4        | 0.50 U     | 0.50 U     | 0.50 U     | 2.5 U |

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2. Bold values denote positive hits.

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standard.

**Table 1 Summary of Positive Analytical Results for Groundwater Samples  
Mr. C's Dry Cleaners Site, East Aurora, New York**

| Analyte                                    | Location ID: |   | PW-6       | PW-8       | PZ-3B      | PZ-3B      | PZ-5A      | PZ-6A      | PZ-8C      |        |
|--------------------------------------------|--------------|---|------------|------------|------------|------------|------------|------------|------------|--------|
|                                            | Sample Name: |   | APR16      | APR16      | APR16      | Q          | APR16      | APR16      | APR16      |        |
|                                            | Depth:       |   | 18 - 28 ft | 18 - 28 ft | 18 - 28 ft | 18 - 28 ft | 18 - 28 ft | 18 - 28 ft | 18 - 28 ft |        |
|                                            | Date:        |   | 04/26/16   | 04/26/16   | 04/26/16   | 04/26/16   | 04/28/16   | 04/27/16   | 04/27/16   |        |
| Screening Criteria <sup>(1)</sup>          | Notes        |   |            |            |            |            |            |            |            |        |
| Volatile Organics by Method SW8260C (µg/L) |              |   |            |            |            |            |            |            |            |        |
| 1,1,1-Trichloroethane                      | 5            |   |            | 0.50 U     | 0.50 U     | 0.50 U     | 0.50 U     | 20 U       | 5.0 U      | 0.50 U |
| Acetone                                    | 50           | G |            | 12         | 2.2 U      | 2.2 U      | 2.2 U      | 88 U       | 22 U       | 2.2 U  |
| Chloroform                                 | 7            |   |            | 0.33 U     | 0.33 U     | 0.33 U     | 0.33 U     | 13 U       | 3.3 U      | 0.33 U |
| Cis-1,2-Dichloroethylene                   | 5            |   |            | 1.3 J      | 66         | 0.87 J     | 0.48 U     | 19 U       | 910        | 19     |
| Methyl Acetate                             |              |   |            | 0.29 U     | 0.29 U     | 0.29 U     | 0.29 U     | 12 U       | 2.9 U      | 0.29 U |
| Methyl tert-Butyl Ether (MTBE)             | 10           | G |            | 0.24 U     | 1.2 J      | 0.24 U     | 0.24 U     | 9.6 U      | 2.4 U      | 36     |
| Tetrachloroethylene (PCE)                  | 5            |   |            | 27         | 60         | 140        | 130        | 5600       | 790        | 3.7 J  |
| Trans-1,2-Dichloroethene                   | 5            |   |            | 0.65 U     | 0.65 U     | 0.65 U     | 0.65 U     | 26 U       | 6.5 U      | 0.65 U |
| Trichloroethylene (TCE)                    | 5            |   |            | 0.36 U     | 11         | 6.3        | 5.4        | 75 J       | 120        | 0.36 U |
| Vinyl Chloride                             | 2            |   |            | 0.50 U     | 2.9 J      | 0.50 U     | 0.50 U     | 20 U       | 5.0 U      | 57     |

**Key:**

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

UR = Not detected/rejected (data not usable)

Notes

G = Guidance value (no standard available)

µg/L = Micrograms per liter

"Q" denotes field duplicate sample

1. New York State Department of Environmental Conservation,  
Technical and Operational Guidance Series Memorandum #1.1.1:

*Ambient Water Quality Standards and Guidance Values and  
Groundwater Effluent Limitations*, 1998 (with updates), Class GA  
Groundwater Standards and Guidance Values.

2. Bold values denote positive hits.

3. Shaded cell exceeds groundwater  
standard.

## FIGURES





| MW-4                     | 5/02     | 9/03     | 6/04       | 9/05      | 8/07         | 4/16 |
|--------------------------|----------|----------|------------|-----------|--------------|------|
| Vinyl Chloride           | ND       | 47 ug/L  | 41.0 ug/L  | 590 ug/L  | ND           | NS   |
| Trichloroethylene (TCE)  | 23 ug/L  | 54 ug/L  | 27.9 ug/L  | 7.0 ug/L  | ND           | NS   |
| Benzene                  | 24 ug/L  | 46 ug/L  | 4.80 ug/L  | 21.0 ug/L | 5.4 ug/L (d) | NS   |
| trans-1,2-Dichloroethene | 1 ug/L   | 7 ug/L   | 2.87 ug/L  | 3.4 ug/L  | ND           | NS   |
| Tetrachloroethene (PCE)  | 130 ug/L | 95 ug/L  | 278 ug/L   | 5.3 ug/L  | ND           | NS   |
| cis-1,2-Dichloroethene   | 200 ug/L | 250 ug/L | 515 ug/L   | 570 ug/L  | 2.5 ug/L (d) | NS   |
| Acetone                  | 3 ug/L   | ND       | ND         | ND        | ND           | NS   |
| Ethylbenzene             | 2 ug/L   | ND       | 4.42 ug/L  | 7.7 ug/L  | ND           | NS   |
| Xylene-Total             | 170 ug/L | ND       | 0.704 ug/L | ND        | 1.3 ug/L     | NS   |
| 1,3,5 - Trimethylbenzene | 120 ug/L | ND       | NA         | ND        | ND           | NS   |
| tert - Butylbenzene      | 2 ug/L   | ND       | 0.447 ug/L | ND        | ND           | NS   |
| 1,2,4 - Trimethylbenzene | 10 ug/L  | ND       | 0.243 ug/L | ND        | ND           | NS   |
| Isopropylbenzene         | ND       | ND       | 1.76 ug/L  | 3.4 ug/L  | 4.2 ug/L (d) | NS   |
| n-Propylbenzene          | ND       | ND       | 2.34 ug/L  | ND        | ND           | NS   |
| m,p-Xylene               | NA       | ND       | 0.382 ug/L | 0.55 ug/L | ND           | NS   |
| o-Xylene                 | NA       | ND       | 0.432 ug/L | 0.8 ug/L  | ND           | NS   |
| sec-Butylbenzene         | ND       | ND       | 1.15 ug/L  | ND        | ND           | NS   |
| Toluene                  | 3 ug/L   | ND       | 0.373 ug/L | 2.3 ug/L  | ND           | NS   |
| 1,1-Dichloroethene       | ND       | ND       | 0.330 ug/L | 1.2 ug/L  | ND           | NS   |
| Cyclohexane              | ND       | ND       | ND         | 75.0 ug/L | 110 ug/L     | NS   |
| Methylcyclohexane        | ND       | ND       | ND         | 22.0 ug/L | 22.0 ug/L    | NS   |
| Methyl tert-butyl ether  | ND       | ND       | ND         | ND        | ND           | NS   |

| MPI-1S                  | 5/02    | 9/03      | 6/04       | 8/07         | 5/09         | 5/10         | 2/12         | 10/13    | 10/14        | 10/15        | 4/16         |
|-------------------------|---------|-----------|------------|--------------|--------------|--------------|--------------|----------|--------------|--------------|--------------|
| Trichloroethylene (TCE) | ND      | 1.5 ug/L  | 9.87 ug/L  | 6.5 ug/L (d) | 1.2 ug/L (d) | ND           | 1.4 ug/L     | 3.2 ug/L | 2.4 ug/L (d) | 2.3 ug/L (d) | ND           |
| Tetrachloroethene (PCE) | 10 ug/L | 41 ug/L   | 123 ug/L   | 97 ug/L      | 54 ug/L      | 40 ug/L      | 44 ug/L (d)  | 49 ug/L  | 56 ug/L      | 45 ug/L      | 18 ug/L      |
| cis-1,2-Dichloroethene  | ND      | 0.86 ug/L | 3.90 ug/L  | ND           | 1.1 ug/L (d) | 1.3 ug/L (d) | 1.3 ug/L (d) | 2.4 ug/L | 2.8 ug/L (d) | 3.1 ug/L (d) | 2.4 ug/L (d) |
| Vinyl chloride          | ND      | ND        | 0.346 ug/L | ND           | ND           | ND           | ND           | ND       | ND           | ND           | ND           |
| 1,1-Dichloroethene      | ND      | ND        | 0.337 ug/L | ND           | ND           | ND           | ND           | ND       | ND           | ND           | ND           |
| Chloromethane           | NA      | NA        | NA         | NA           | NA           | NA           | 74 ug/L (d)  | ND       | ND           | ND           | ND           |

| MW-5                     | 5/02      | 9/03    | 10/13 | 10/14 | 10/15 | 4/16 |
|--------------------------|-----------|---------|-------|-------|-------|------|
| Xylene                   | 5700 ug/L | ND      | NS    | NS    | NS    | NS   |
| Vinyl Chloride           | ND        | 7 ug/L  | NS    | NS    | NS    | NS   |
| Trichloroethylene (TCE)  | 21 ug/L   | ND      | NS    | NS    | NS    | NS   |
| Benzene                  | 220 ug/L  | 15 ug/L | NS    | NS    | NS    | NS   |
| trans-1,2-Dichloroethene | ND        | ND      | NS    | NS    | NS    | NS   |
| Tetrachloroethene (PCE)  | 83 ug/L   | 2 ug/L  | NS    | NS    | NS    | NS   |
| cis-1,2-Dichloroethene   | 48 ug/L   | 16 ug/L | NS    | NS    | NS    | NS   |
| Methyl tert-Butyl Ether  | ND        | 3 ug/L  | NS    | NS    | NS    | NS   |
| Toluene                  | 160 ug/L  | 3 ug/L  | NS    | NS    | NS    | NS   |
| Ethylbenzene             | 25 ug/L   | ND      | NS    | NS    | NS    | NS   |
| 1,3,5 - Trimethylbenzene | 470 ug/L  | ND      | NS    | NS    | NS    | NS   |
| 1,2,4 - Trimethylbenzene | 920 ug/L  | ND      | NS    | NS    | NS    | NS   |

| ESI-5/ESI-5R            | 5/02 | 9/03      | 6/04       | 8/07         | 5/09 | 5/10 | 6/12 | 10/13 | 10/14 | 10/15 | 4/16 |
|-------------------------|------|-----------|------------|--------------|------|------|------|-------|-------|-------|------|
| Tetrachloroethene (PCE) | ND   | 0.52 ug/L | 0.196 ug/L | 4.6 ug/L (d) | ND   | ND   | ND   | ND    | ND    | ND    | ND   |

| ESI-4/EE-1              | 5/02     | 9/03      | 6/04       | 8/07         | 5/09         | 5/10         | 10/15 | 4/16 |
|-------------------------|----------|-----------|------------|--------------|--------------|--------------|-------|------|
| Chloroform              | ND       | 0.54 ug/L | 0.521 ug/L | ND           | ND           | ND           | NS    | NS   |
| 1,1,1-Trichloroethene   | 0.7 ug/L | 2.4 ug/L  | 14.7 ug/L  | 9.6 ug/L (d) | 12 ug/L      | 7.5 ug/L     | NS    | NS   |
| Trichloroethylene (TCE) | 0.5 ug/L | 3.6 ug/L  | ND         | ND           | ND           | ND           | NS    | NS   |
| Tetrachloroethene (PCE) | 14 ug/L  | 6.3 ug/L  | 5.91 ug/L  | 3.1 ug/L (d) | 4.5 ug/L (d) | 3.8 ug/L (d) | NS    | NS   |
| cis-1,2-Dichloroethene  | ND       | 1.2 ug/L  | ND         | ND           | ND           | ND           | NS    | NS   |
| Methyl tert-butyl ether | ND       | ND        | 8.51 ug/L  | 4.2 ug/L (d) | 16 ug/L (d)  | ND           | NS    | NS   |
| Trichloroethanes, Total | NA       | NA        | 0.521 ug/L | ND           | ND           | NA           | NS    | NS   |
| 1,1-Dichloroethene      | ND       | ND        | 1.16 ug/L  | ND           | ND           | ND           | NS    | NS   |
| 1,1-Dichloroethene      | ND       | ND        | 0.284 ug/L | ND           | ND           | ND           | NS    | NS   |
| 2-Butanone              | NA       | NA        | 0.965 ug/L | ND           | ND           | ND           | NS    | NS   |
| Benzene                 | ND       | ND        | 0.325 ug/L | ND           | ND           | ND           | NS    | NS   |
| Acetone                 | NA       | NA        | 1.85 ug/L  | ND           | ND           | ND           | NS    | NS   |

| MW-10                   | 5/02    | 9/03    | 10/13 | 10/15 | 4/16 |
|-------------------------|---------|---------|-------|-------|------|
| Acetone                 | ND      | 14 ug/L | NS    | NS    | NS   |
| cis-1,2-Dichloroethene  | ND      | 3 ug/L  | NS    | NS    | NS   |
| Tetrachloroethene (PCE) | 12 ug/L | ND      | NS    | NS    | NS   |

| PW-2                     | 5/02     | 9/03     | 6/04       | 9/05      | 8/07      | 5/09         | 5/10         | 2/12         | 10/13 | 10/14        | 10/15        | 4/16         |
|--------------------------|----------|----------|------------|-----------|-----------|--------------|--------------|--------------|-------|--------------|--------------|--------------|
| Trichloroethylene (TCE)  | ND       | 11 ug/L  | 0.57 ug/L  | 4.4 ug/L  | 9.3 ug/L  | 7.5 ug/L     | 6.5 ug/L     | 2.2 ug/L (d) | ND    | 3.4 ug/L (d) | 16 ug/L (d)  | 24 ug/L (d)  |
| Tetrachloroethene (PCE)  | 430 ug/L | 400 ug/L | 1090 ug/L  | 2000 ug/L | 1300 ug/L | 1200 ug/L    | 910 ug/L     | 770 ug/L (d) | ND    | 620 ug/L     | 380 ug/L     | 270 ug/L     |
| cis-1,2-Dichloroethene   | ND       | 5 ug/L   | 3.82 ug/L  | 2.0 ug/L  | ND        | 2.8 ug/L (d) | 1.3 ug/L (d) | ND           | ND    | ND           | 1.1 ug/L (d) | ND           |
| Methyl tert-Butyl Ether  | ND       | 3 ug/L   | 0.617 ug/L | ND        | ND        | ND           | ND           | ND           | ND    | ND           | ND           | ND           |
| Acetone                  | 14 ug/L  | ND       | ND         | ND        | ND        | ND           | ND           | ND           | ND    | ND           | ND           | 8.8 ug/L (d) |
| Ethylbenzene             | 24 ug/L  | ND       | ND         | ND        | ND        | ND           | ND           | ND           | ND    | ND           | ND           | ND           |
| Xylene                   | 65 ug/L  | ND       | ND         | ND        | ND        | ND           | ND           | ND           | ND    | ND           | ND           | ND           |
| trans-1,2-Dichloroethene | ND       | ND       | 0.290 ug/L | ND        | ND        | 4.1 ug/L (d) | ND           | ND           | ND    | ND           | ND           | ND           |
| 1,1,1-Trichloroethene    | ND       | ND       | 0.344 ug/L | ND        | ND        | ND           | ND           | ND           | ND    | ND           | ND           | ND           |

| MPI-2S/MPI-2SR          | 4/94    | 1/95   | 6/04 | 2/12         | 10/13        | 10/14        | 10/15        | 4/16         |
|-------------------------|---------|--------|------|--------------|--------------|--------------|--------------|--------------|
| 1,1,1 Trichloroethane   | 14 ug/L | 12 u/L | NS   | 41 ug/L (d)  | 2.9 ug/L (d) | 3.4 ug/L (d) | 3.0 ug/L     | 3.0 ug/L (d) |
| Benzene                 | ND      | 2 ug/L | NS   | ND           | ND           | ND           | ND           | ND           |
| Chloroform              | NA      | NA     | NA   | 1.8 ug/L (d) | 1.4 ug/L (d) | 1.3 ug/L (d) | 4.4 ug/L (d) | 7.7 ug/L     |
| Tetrachloroethene (PCE) | NA      | NA     | NA   | 1.9 ug/L (d) | 2.4 ug/L (d) | 2.9 ug/L (d) | 1.9 ug/L (d) | 2.5 ug/L (d) |

| MW-6                    | 5/02    | 9/03    | 4/16 |
|-------------------------|---------|---------|------|
| Trichloroethylene (TCE) | ND      | 2 ug/L  | NS   |
| Tetrachloroethene (PCE) | 68 ug/L | 74 ug/L | NS   |
| cis-1,2-Dichloroethane  | ND      | 2 ug/L  | NS   |

| MW-7                     | 5/02     | 9/03      | 6/04       | 9/05      | 8/07     | 5/09         | 5/10         | 2/12         | 10/13    | 10/14        | 10/15    | 4/16     |
|--------------------------|----------|-----------|------------|-----------|----------|--------------|--------------|--------------|----------|--------------|----------|----------|
| Trichloroethylene (TCE)  | ND       | 8 ug/L    | 4.34 ug/L  | 3.2 ug/L  | ND       | 1.4 ug/L (d) | 1.5 ug/L (d) | ND           | ND       | 3.8 ug/L (d) | ND       | ND       |
| Tetrachloroethene (PCE)  | 240 ug/L | 3300 ug/L | 1170 ug/L  | 2000 ug/L | 830 ug/L | 700 ug/L (d) | 770 ug/L (d) | 670 ug/L (d) | 910 ug/L | 1100 ug/L    | 840 ug/L | 600 ug/L |
| cis-1,2-Dichloroethene   | ND       | ND        | 3.73 ug/L  | 0.76 ug/L | ND       | ND           | ND           | ND           | ND       | ND           | ND       | ND       |
| 1,1,1-Trichloroethane    | ND       | ND        | 0.379 ug/L | ND        | ND       | ND           | ND           | ND           | ND       | ND           | ND       | ND       |
| Methyl tert-butyl ether  | ND       | ND        | 0.315 ug/L | ND        | ND       | ND           | ND           | ND           | ND       | ND           | ND       | ND       |
| trans-1,2-Dichloroethene | -        | -         | ND         | ND        | ND       | 1.7 ug/L (d) | 1.9 ug/L (d) | ND           | ND       | ND           | ND       | ND       |

| P2-3B                    | 10/14         | 10/15        | 4/16     |
|--------------------------|---------------|--------------|----------|
| trans-1,2-Dichloroethene | 0.78 ug/L (d) | ND           | ND       |
| cis-1,2-Dichloroethene   | 1.9 ug/L (d)  | 1.2 ug/L (d) | ND       |
| Trichloroethylene (TCE)  | 7.9 ug/L      | 8.4 ug/L     | 5.4 ug/L |
| Tetrachloroethene (PCE)  | 150 ug/L      | 150 ug/L     | 130 ug/L |

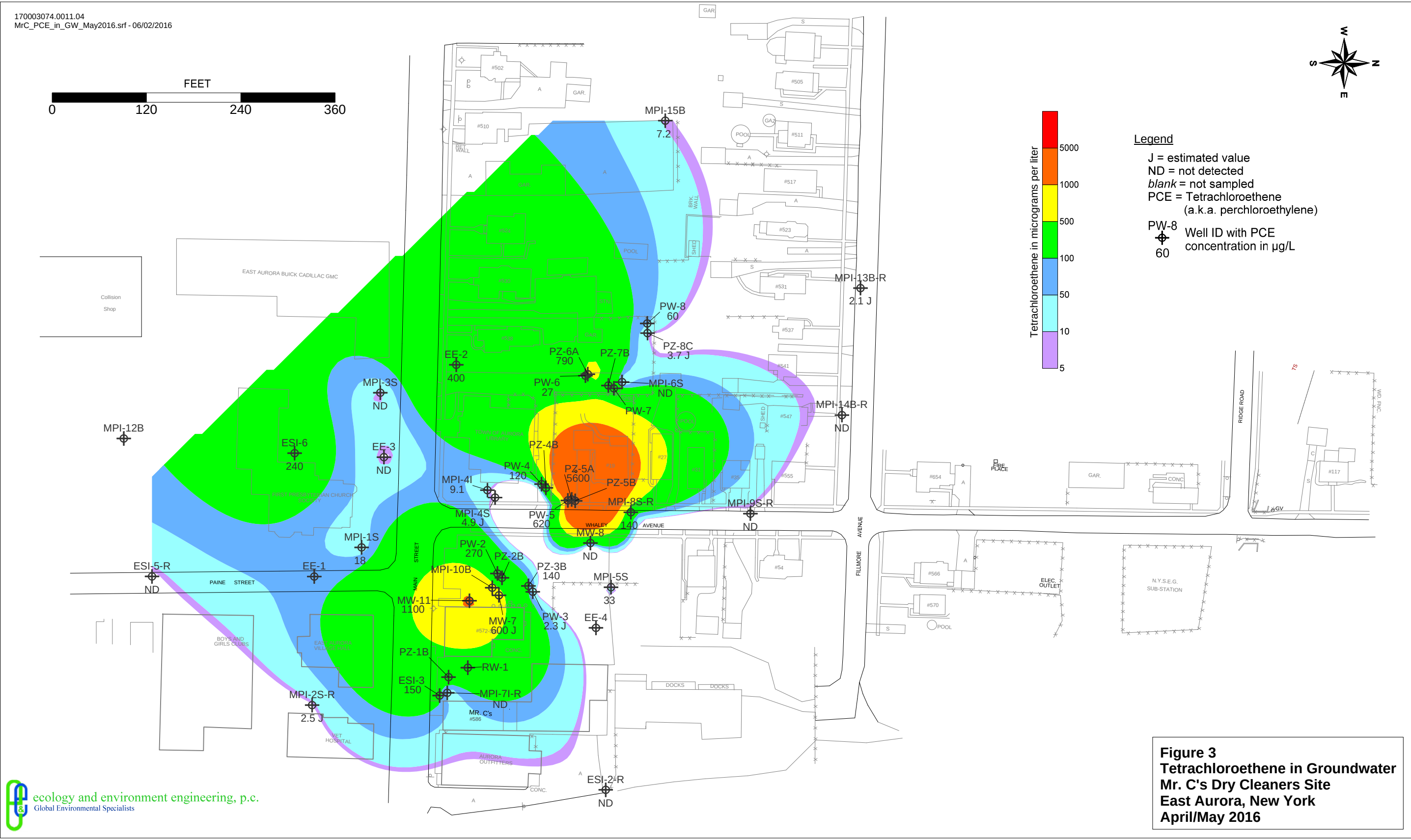
| MW-8                     | 5/02      | 9/03     | 6/04       | 9/05       | 8/07     | 5/09         | 5/10         | 2/12         | 10/13        | 10/14        | 10/15    | 4/16         |
|--------------------------|-----------|----------|------------|------------|----------|--------------|--------------|--------------|--------------|--------------|----------|--------------|
| Trichloroethylene (TCE)  | 720 ug/L  | 16 ug/L  | 10.4 ug/L  | 100.0 ug/L | 590 ug/L | 16 ug/L      | 14 ug/L      | 92 ug/L      | 12 ug/L      | 1.7 ug/L (d) | 16 ug/L  | 2.3 ug/L (d) |
| trans-1,2-Dichloroethene | 50 ug/L   | 1 ug/L   | 0.481 ug/L | 3.8 ug/L   | 24 ug/L  | 12 ug/L      | 6.4 ug/L     | 11 ug/L (d)  | 28 ug/L      | 46 ug/L      | ND       | 13 ug/L      |
| Tetrachloroethene (PCE)  | 3800 ug/L | 310 ug/L | 299 ug/L   | 570.0 ug/L | 960 ug/L | 210 ug/L (d) | 200 ug/L (d) | 250 ug/L (d) | 3.4 ug/L (d) | 1.3 ug/L (d) | ND       | ND           |
| cis-1,2-Dichloroethene   | 40 ug/L   | 5 ug/L   | 2.36 ug/L  | 15.0 ug/L  | 390 ug/L | 8.4 ug/L     | 6.5 ug/L     | 15 ug/L (d)  | 81 ug/L      | 15 ug/L      | 12 ug/L  | 17 ug/L      |
| 2-Butanone               | ND        | ND       | 1.88 ug/L  | ND         | ND       | ND           | ND           | ND           | ND           | ND           | ND       | ND           |
| 1,1,1-Trichloroethane    | ND        | ND       | 0.157 ug/L | ND         | ND       | ND           | ND           | ND           | ND           | ND           | ND       | ND           |
| Methyl tert-butyl ether  | ND        | ND       | 0.135 ug/L | ND         | ND       | ND           | ND           | ND           | ND           | ND           | ND       | ND           |
| Vinyl chloride           | ND        | ND       | ND         | ND         | 35 ug/L  | ND           | 2.0 ug/L (d) | ND           | 15 ug/L      | 7.2 ug/L     | 7.4 ug/L | 8.4 ug/L     |
| Methylcyclohexane        | -         | -        | -          | -          | 2.5 ug/L | ND           | ND           | ND           | ND           | ND           | ND       | ND           |
| Acetone                  | -         | -        | -          | -          | -        | -            | -            | -            | 22 ug/L      | ND           | ND       | ND           |

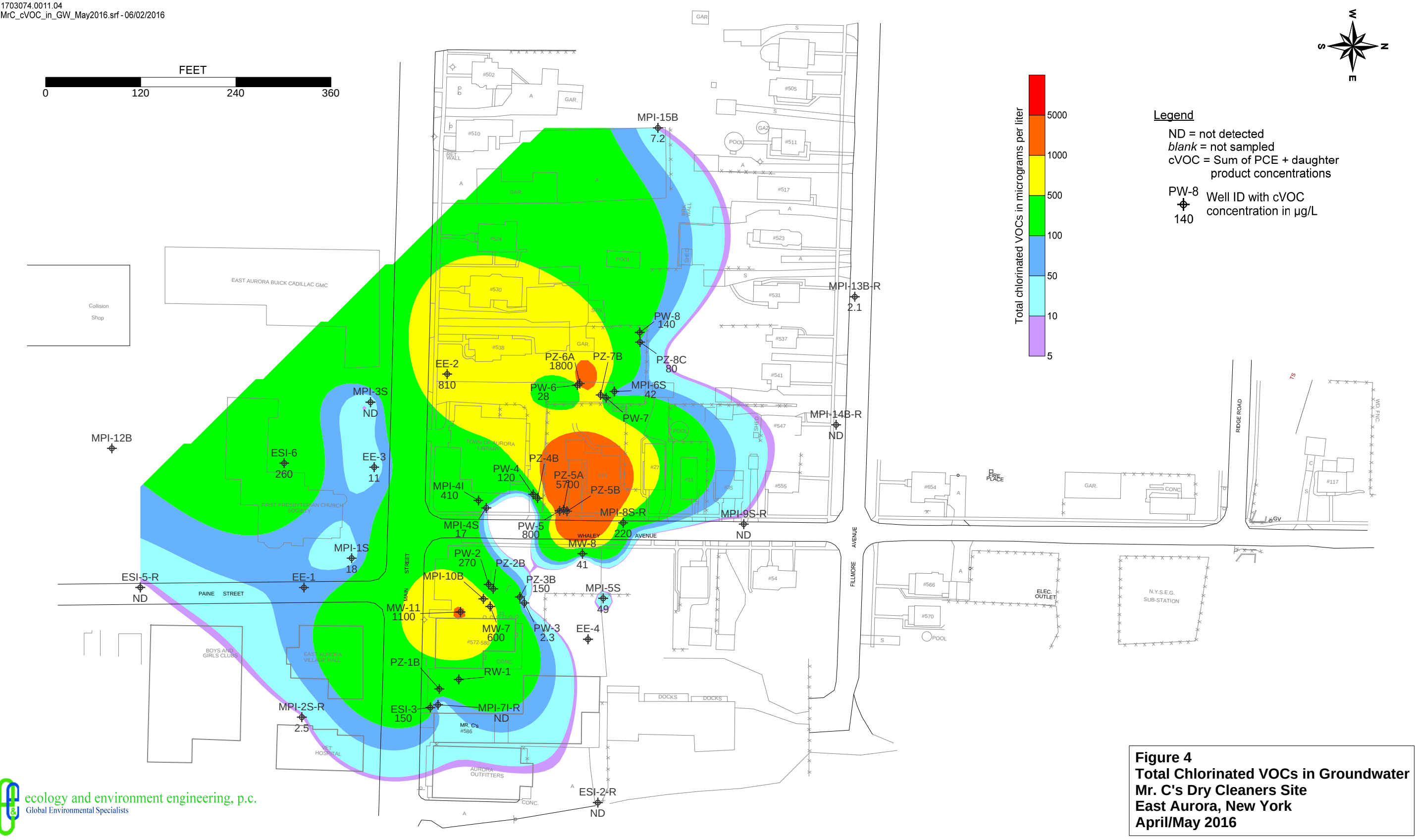
| PW-3                     | 5/02     | 9/03     | 6/04       | 9/05     | 8/07         | 5/09         | 5/10         | 2/12         | 10/13        | 10/14        | 10/15       | 4/16         |
|--------------------------|----------|----------|------------|----------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|
| Trichloroethylene (TCE)  | ND       | 6 ug/L   | 7.32 ug/L  | 8.9 ug/L | 7.2 ug/L (d) | 6 ug/L       | 4.6 ug/L (d) | 4.3 ug/L (d) | 3.6 ug/L (d) | 4.4 ug/L (d) | 21 ug/L (d) | ND           |
| Tetrachloroethene (PCE)  | 820 ug/L | 850 ug/L | 595 ug/L   | 560 ug/L | 290 ug/L     | 300 ug/L (d) | 260 ug/L     | 220 ug/L (d) | 170 ug/L     | 220 ug/L     | 100 ug/L    | 2.3 ug/L (d) |
| cis-1,2-Dichloroethene   | ND       | 6 ug/L   | 6.43 ug/L  | 4.0 ug/L | 2.8 ug/L (d) | 4.3 ug/L (d) | 3.5 ug/L (d) | ND           | ND           | ND           | ND          | ND           |
| Methyl tert-Butyl Ether  | ND       | 4 ug/L   | 0.401 ug/L | ND       | ND           | ND           | ND           | ND           | ND           | ND           | ND          | ND           |
| Acetone                  | 51 ug/L  | ND       | ND         | ND       | ND           | ND           | ND           | ND           | ND           | ND           | ND          | 11 ug/L      |
| 2-Butanone               | 350 ug/L | ND       | ND         | ND       | ND           | ND           | ND           | ND           | ND           | ND           | ND          | ND           |
| Ethylbenzene             | 20 ug/L  | ND       | ND         | ND       | ND           | ND           | ND           | ND           | ND           | ND           | ND          | ND           |
| Xylene                   | 120 ug/L | ND       | ND         | ND       | ND           | ND           | ND           | ND           | ND           | ND           | ND          | ND           |
| Styrene                  | 11 ug/L  | ND       | ND         | ND       | ND           | ND           | ND           | ND           | ND           | ND           | ND          | ND           |
| 1,1,1-Trichloroethane    | ND       | ND       | 0.407 ug/L | ND       | ND           | ND           | ND           | ND           | ND           | ND           | ND          | ND           |
| Benzene                  | ND       | ND       | 0.146 ug/L | ND       | ND           | ND           | ND           | ND           | ND           | ND           | ND          | ND           |
| Chloroform               | ND       | ND       | 0.133 ug/L | ND       | ND           | ND           | ND           | ND           | ND           | ND           | ND          | ND           |
| trans-1,2-Dichloroethene | ND       | ND       | 2.94 ug/L  | 3.4 ug/L | 5.0 ug/L (d) | 6.2 ug/L     | 3.2 ug/L (d) | ND           | ND           | ND           | ND          | ND           |
| Trichloromethanes, Total | NA       | NA       | 0.133 ug/L | ND       | ND           | NS           | NA           | ND           | ND           | ND           | ND          | ND           |
| Vinyl chloride           | ND       | ND       | ND         | 1.7 ug/L | ND           | ND           | ND           | ND           | ND           | ND           | ND          | ND           |

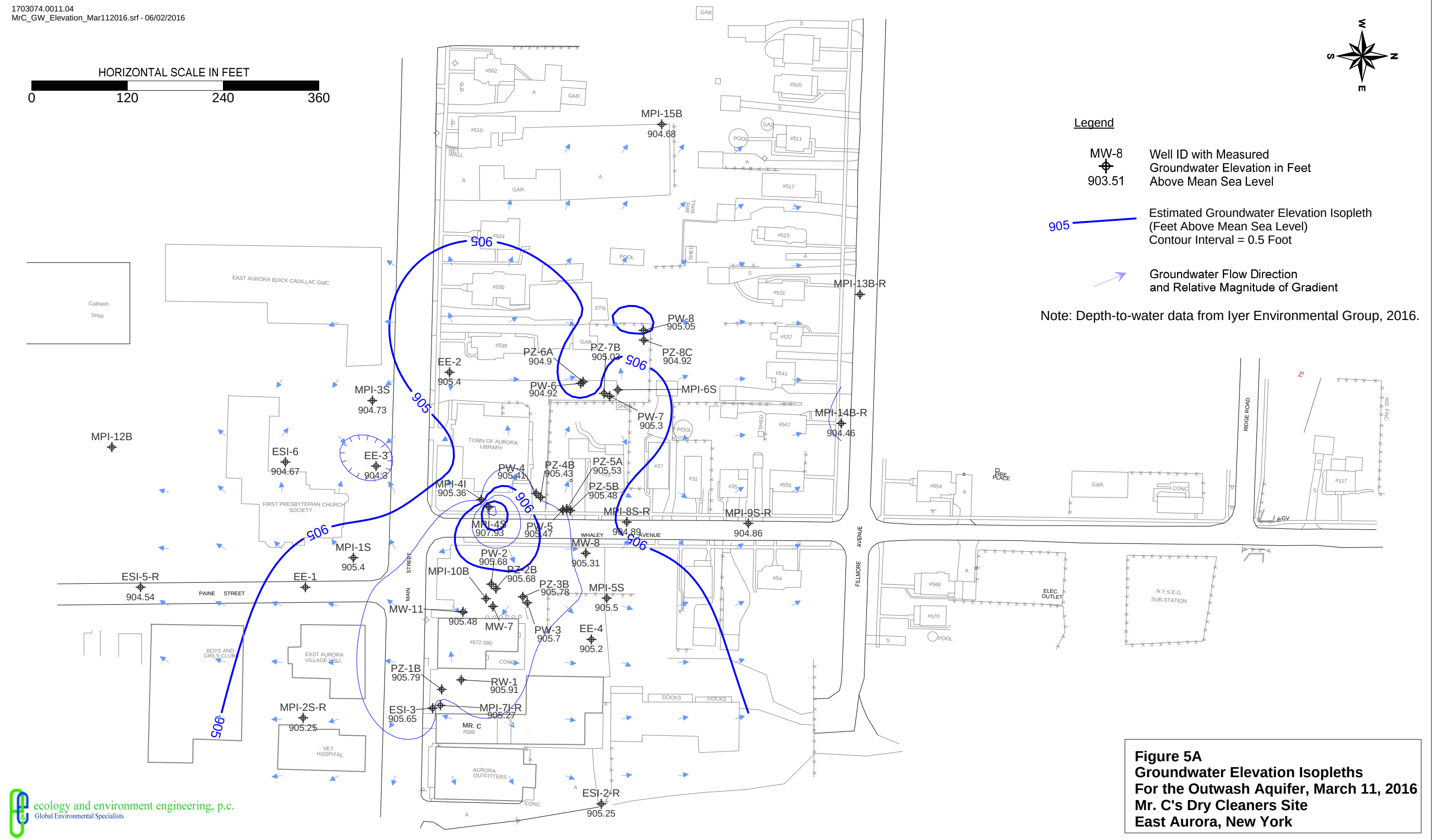
| MPI-5S                   | 5/02 | 9/03    | 6/04       | 8/07     | 5/09     | 5/10     | 2/12     | 10/13    | 10/14    | 10/15    | 4/16     |
|--------------------------|------|---------|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Vinyl Chloride           | NA   | 5 ug/L  | 1.88 ug/L  | 15 ug/L  | 2.7 ug/L | 2.9 ug/L | 6.1 ug/L | ND       | ND       | 1.5 ug/L | 2.3 ug/L |
| Trichloroethylene (TCE)  | NA   | 6 ug/L  | 3.66 ug/L  | 2.1 ug/L | 3.6 ug/L | 5.7 ug/L | 6.9 ug/L | 7.1 ug/L | 5.3 ug/L | 5.7 ug/L | 6.5 ug/L |
| trans-1,2-Dichloroethene | NA   | 2 ug/L  | 3.87 ug/L  | 6.0 ug/L | 10 ug/L  | 6.2 ug/L | 6.8 ug/L | 4.2 ug/L | 5.2 ug/L | 4.4 ug/L | 2.8 ug/L |
| Tetrachloroethene (PCE)  | NA   | 36 ug/L | 38.3 ug/L  | 4.9 ug/L | 15 ug/L  | 16 ug/L  | 29 ug/L  | 24 ug/L  | 24 ug/L  | 30 ug/L  | 33 ug/L  |
| cis-1,2-Dichloroethene   | NA   | 5 ug/L  | 3.81 ug/L  | 8.4 ug/L | 7.7 ug/L | 4.2 ug/L | 6.0 ug/L | 8.5 ug/L | 7.8 ug/L | 8.4 ug/L | 4.2 ug/L |
| Methyl tert-butyl ether  | NA   | ND      | 0.114 ug/L | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       |
| 2-Butanone               | NA   | ND      | 0.894 ug/L | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       |
| Benzene                  | NA   | ND      | 0.304 ug/L | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       |

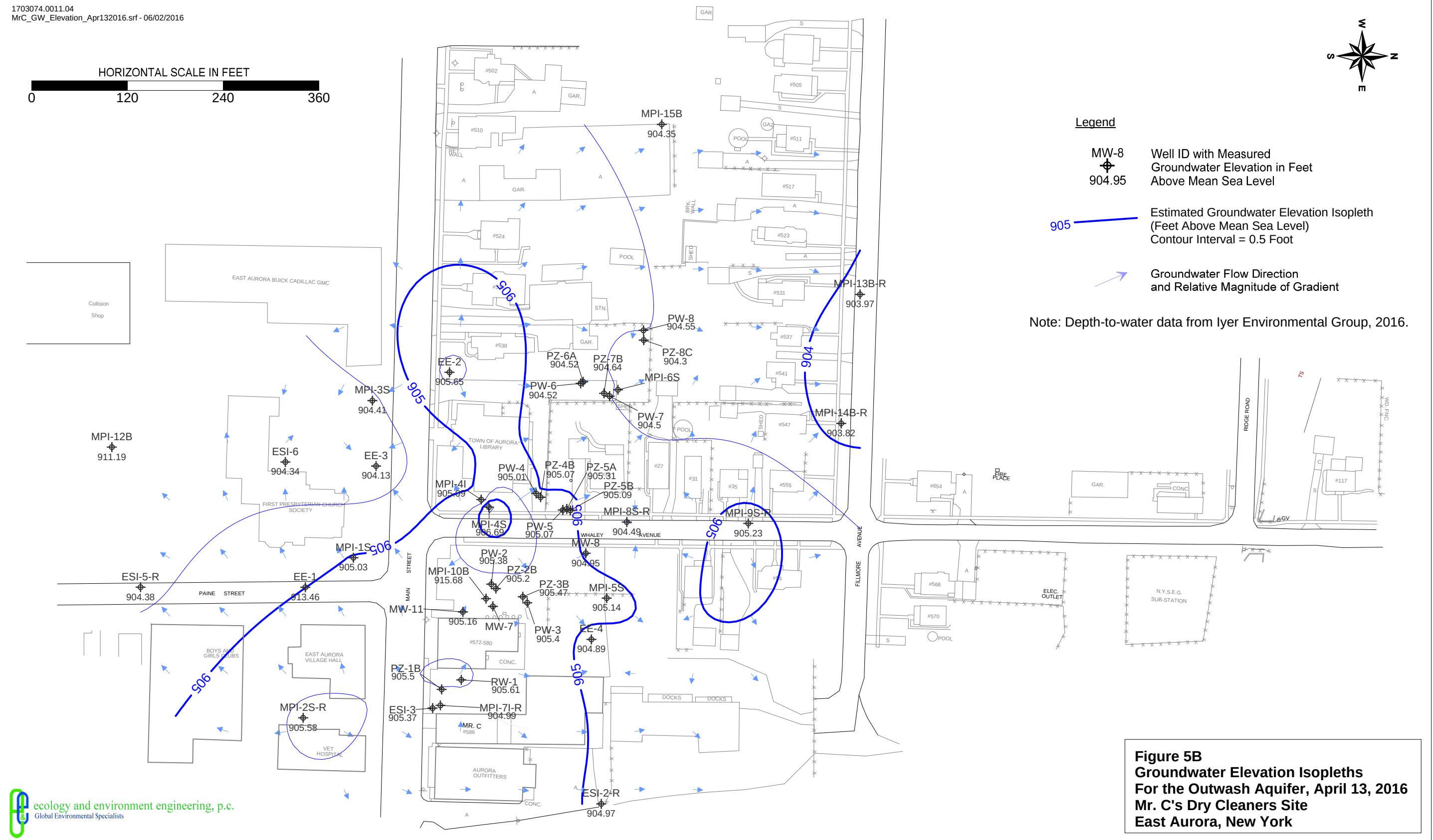
| MPI-SI                  | 5/02 | 9/03   | 10/15 | 4/16 |
|-------------------------|------|--------|-------|------|
| Methyl tert-Butyl Ether | NA   | 4 ug/L | NS    | NS   |

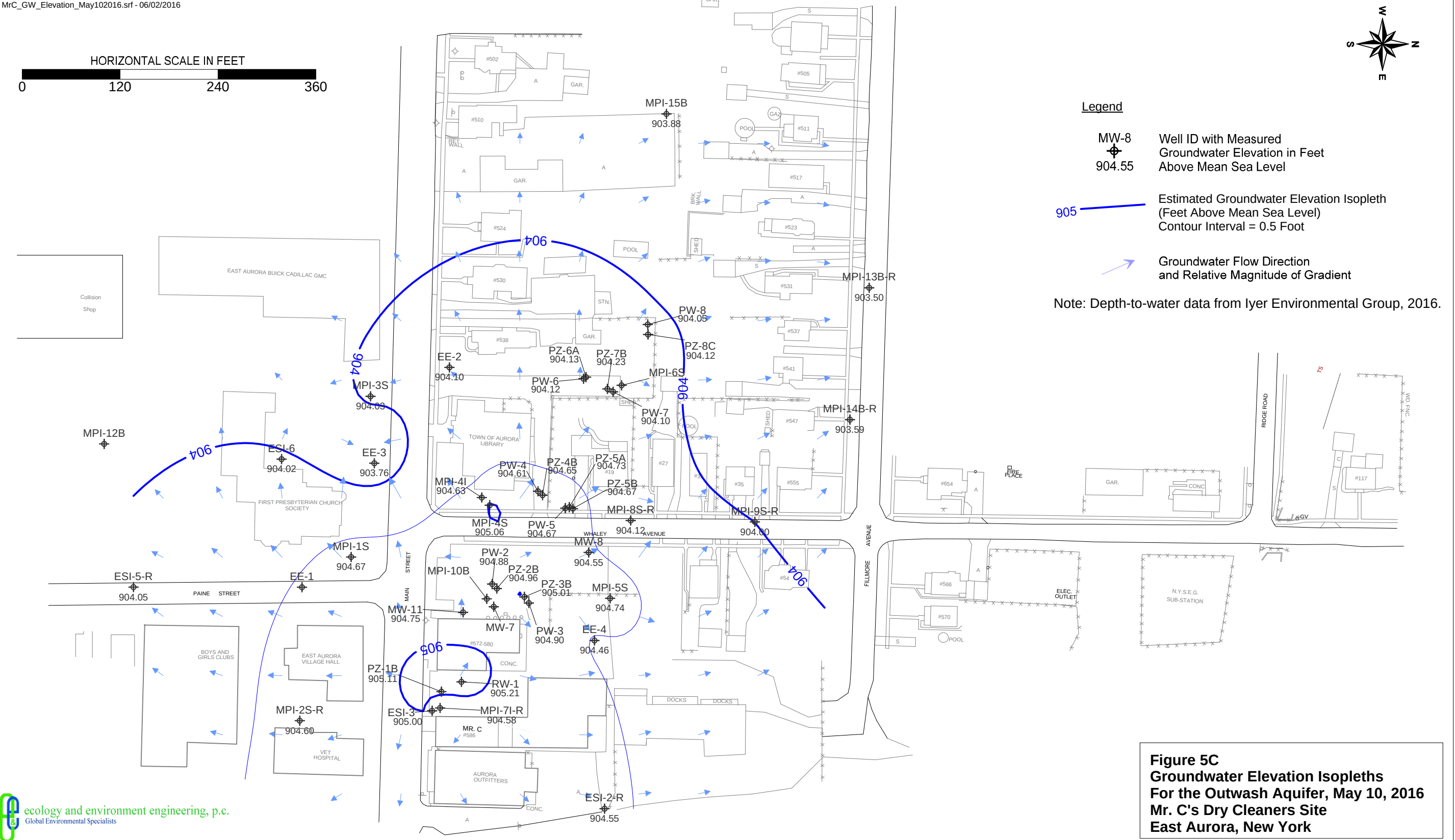
| EE-4                     | 2/12        | 10/13       | 10/14       | 10/15 | 4/16 |
|--------------------------|-------------|-------------|-------------|-------|------|
| cis-1,2-Dichloroethene   | 3.3 ug/L(d) | ND          | ND          | NS    | NS   |
| trans-1,2-Dichloroethene | 8.6 ug/L    | 1.2 ug/L(d) | 1.9 ug/L(d) | NS    | NS   |
| Tetrachloroethene (PCE)  | 68 ug/L(d)  | ND          | 1.8 ug/L(d) | NS    | NS   |
| Vinyl chloride           | 4.6 ug/L(d) | ND          | 1.2 ug/L(d) | NS    | NS   |
| Cyclohexane              | 8.4 ug/L    | 5.3 ug/L    | ND          | NS    | NS   |
| Isopropylbenzene         | 3.3 ug/L(d) | 2.9 ug/L(d) | 2.2 ug/L(d) | NS    | NS   |
| Methylcyclohexane        | 17 ug/L     | 11 ug/L     | 8.3 ug/L    | NS    | NS   |
| Trichloroethylene (TCE)  | 81 ug/L(d)  | ND          | ND          | NS    | NS   |

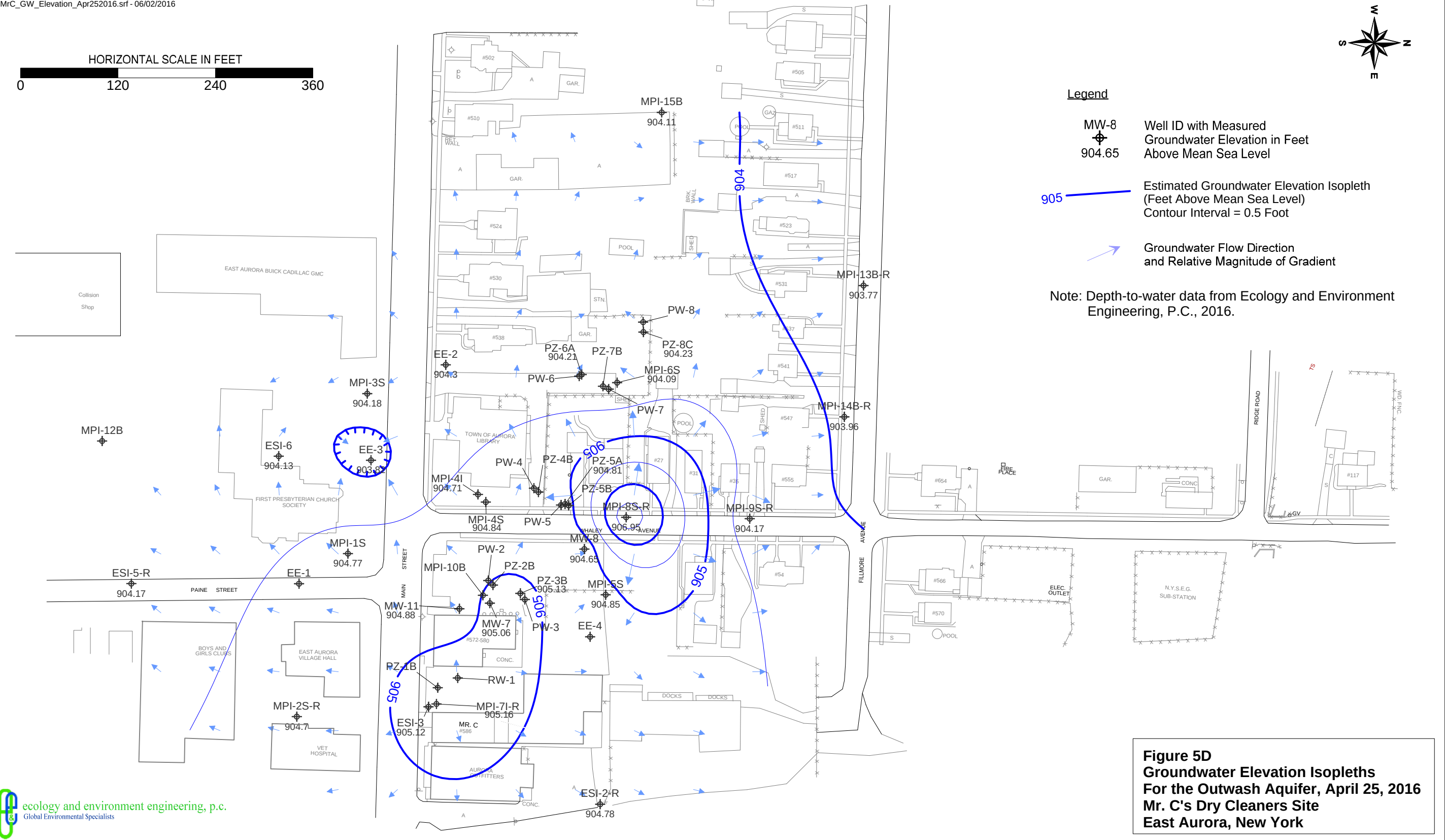












**ATTACHMENT A**  
**PURGE LOG**





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International Specialists in the Environment

BUFFALO CORPORATE CENTER 368 Pleasant View Drive, Lancaster, New York 14086  
Tel: 716/684-8060 Fax: 716/684-0844

## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr C's / East Aurora

Well ID: MW-8

EEEPCC Project No.: 10C 3074.0011.04

Date: 4/25/16

Initial Depth to Water: 10.97 feet TOIC

Start Time: 1150

Total Well Depth: 13.00 feet TOIC

End Time: 1250

Depth to Pump: 12.60 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 200 (mLpm) / gpm

Pump Type: typhoon

adjusted to: — at — minutes

Well Diameter: 2 inches

adjusted to: — at — minutes

1x Well Volume: 0.438 gallons

| Time                                                                                        | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm, mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|---------------------------------------------------------------------------------------------|----------------------------------|--------------|------------------|-------------|--------------------------------|--------------|--------------------|-----------------------|
| 1150                                                                                        | 0                                | 6.98         | 10.8             | -47.8       | 2.55                           | 4.95         | 31.5               | 11.03                 |
| 1155                                                                                        | 1.0                              | 7.19         | 11.6             | -88.6       | 2.37                           | 0.67         | 22.4               | 11.03                 |
| 1200                                                                                        | 2.0                              | 7.18         | 12.2             | -106.9      | 2.25                           | 0.37         | 7.16               | 11.03                 |
| 1205                                                                                        | 3.0                              | 7.19         | 12.5             | -111.8      | 2.23                           | 0.30         | 11.5               | 11.03                 |
| 1210                                                                                        | 4.0                              | 7.21         | 12.9             | -94.6       | 2.22                           | 0.86         | 11.5               | 11.03                 |
| 1215                                                                                        | 5.0                              | 7.20         | 13.9             | -79.8       | 2.21                           | 1.89         | 17.2               | 11.03                 |
| 1220                                                                                        | 6.0                              | 7.21         | 15.3             | -110.5      | 2.24                           | 0.52         | 24.5               | 11.00                 |
| 1225                                                                                        | 7.0                              | 7.23         | 14.7             | -112.9      | 2.22                           | 0.26         | 24.6               | 11.02                 |
| 1230                                                                                        | 8.0                              | 7.18         | 13.6             | -109.3      | 2.18                           | 0.20         | 12.5               | 11.02                 |
| 1235                                                                                        | 9.0                              | 7.16         | 12.6             | -113.1      | 2.17                           | 0.15         | 5.94               | 11.02                 |
| 1240                                                                                        | 10.0                             | 7.15         | 12.6             | -112.8      | 2.16                           | 0.15         | 3.50               | 11.02                 |
| 1245                                                                                        | 11.0                             | 7.13         | 12.5             | -113.6      | 2.14                           | 0.14         | 0.63               | 11.02                 |
| 1250                                                                                        | 12.0                             | 7.12         | 12.5             | -113.6      | 2.13                           | 0.11         | 0.51               | 11.02                 |
|  4/25/16 |                                  |              |                  |             |                                |              |                    |                       |
| Final Sample Data:                                                                          |                                  | 7.12         | 12.5             | -113.6      | 2.13                           | 0.11         | 0.51               | 11.02                 |

Sample ID: MW-8-APR 16

Duplicate? ☐

Dupe Samp ID: —

Sample Time: 1253

MS/MSD? ☐

Analyses: Methods:

Comments: Sampled at 150 mL/min

☒ VOCs ☐ CLP

☐ SVOCs ☐ SW846

☐ PCBs ☐ Drink. Wtr.

☐ Metals ☒ 8260C

☐ — ☐ —

Sampler(s): S. Craig T. Dillon



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mrc's / East Aurora

Well ID: MPI-~~55~~ 55

EEEP Project No.: 10C3074.0011.04

Date: 4/25/16

Initial Depth to Water: 11.60 feet TOIC

Start Time: 1353

Total Well Depth: 17.55 feet TOIC

End Time: 1433

Depth to Pump: 16.55 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 300 mlpm / gpm

Pump Type: Hyphcon

adjusted to: — at — minutes

Well Diameter: 2 inches

adjusted to: — at — minutes

1x Well Volume: 0.96 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 1353               | 0                                | 7.53         | 12.0             | 108.3       | 2.76                          | 2.14         | 271.1              | 11.63                 |
| 1358               | 1.5                              | 7.15         | 11.5             | 154.4       | 2.83                          | 0.78         | 78.1               | 11.65                 |
| 1403               | 3.0                              | 7.14         | 11.3             | 136.2       | 2.90                          | 0.51         | 31.9               | 11.66                 |
| 1408               | 4.5                              | 7.14         | 11.4             | 98.0        | 2.91                          | 0.33         | 12.41              | 11.66                 |
| 1413               | 6.0                              | 7.17         | 11.2             | 84.3        | 2.91                          | 0.21         | 6.83               | 11.66                 |
| 1418               | 7.5                              | 7.18         | 11.2             | 62.8        | 2.90                          | 0.17         | 4.37               | 11.66                 |
| 1423               | 9.0                              | 7.18         | 11.2             | 47.4        | 2.89                          | 0.16         | 3.34               | 11.66                 |
| 1428               | 10.5                             | 7.18         | 11.3             | 40.3        | 2.88                          | 0.15         | 4.30               | 11.66                 |
| 1433               | 12                               | 7.19         | 11.2             | 39.2        | 2.88                          | 0.12         | 2.47               | 11.66                 |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data: |                                  | 7.19         | 11.2             | 39.2        | 2.88                          | 0.12         | 2.47               | 11.66                 |

Sample ID: MPI-55 APR 16

Duplicate? ☐

Dupe Samp ID: —

Sample Time: 1435

MS/MSD? ☐

### Analyses:

### Methods:

### Comments:

☒ VOCs

☐ CLP

Sampled at ~150 ml/min

☐ SVOCs

☐ SW846

☐ PCBs

☐ Drink. Wtr.

☐ Metals

☒ VOCs 260

☐

☐

Sampler(s): S. Craig, T. Dillon



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr C's / East Aurora

Well ID: MPI-FIR

EEEP Project No.: 10C3074.0011.04

Date: 4/25/16

Initial Depth to Water: 10.28 feet TOIC

Start Time: 1505

Total Well Depth: 38.05 feet TOIC

End Time: 1555

Depth to Pump: 37.05 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 150 mlpm / gpm

Pump Type: typhoon

adjusted to: - at - minutes

Well Diameter: 2 inches

adjusted to: - at - minutes

1x Well Volume: 4.52 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 1505               | 0                                | 7.56         | 11.0             | 209.3       | 3.63                          | 4.64         | 16.2               | 11.51                 |
| 1510               | 0.75                             | 7.67         | 11.0             | 196.1       | 3.64                          | 4.11         | 15.7               | 11.51                 |
| 1515               | 1.5                              | 7.66         | 11.2             | 190.3       | 3.64                          | 4.07         | 15.8               | 11.51                 |
| 1520               | 2.25                             | 7.65         | 11.3             | 181.4       | 3.64                          | 4.01         | 13.6               | 11.51                 |
| 1525               | 3.0                              | 7.63         | 11.3             | 164.9       | 3.64                          | 3.85         | 13.2               | 11.51                 |
| 1530               | 3.75                             | 7.59         | 11.3             | 86.0        | 3.63                          | 3.47         | 11.1               | 11.51                 |
| 1535               | 4.5                              | 7.55         | 11.3             | 46.1        | 3.62                          | 3.17         | 13.58              | 11.51                 |
| 1540               | 5.25                             | 7.52         | 11.4             | 29.8        | 3.62                          | 3.13         | 14.59              | 11.51                 |
| 1545               | 6.0                              | 7.47         | 11.4             | 22.0        | 3.62                          | 3.04         | 11.5               | 11.51                 |
| 1550               | 6.75                             | 7.45         | 11.4             | 19.1        | 3.60                          | 3.01         | 14.4               | 11.51                 |
| 1555               | 7.5                              | 7.45         | 11.5             | 15.2        | 3.59                          | 3.00         | 12.1               | 11.51                 |
|                    |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data: |                                  | 7.45         | 11.5             | 15.2        | 3.59                          | 3.00         | 12.1               | 11.51                 |

Sample ID: MPI-FIR-APR14

Duplicate? ☐

Dupe Sample ID: -

Sample Time: 1558

MS/MSD? ☐

Analyses: Methods:

Comments: Sampled at 150 ml/min

☒ VOCs ☐ CLP

☐ SVOCs ☐ SW846

☐ PCBs ☐ Drink. Wtr.

☐ Metals ☒ 8260C

☐ - ☐ -

Sampler(s): S. Craig T. Dillon



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International Specialists in the Environment

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Tel: 716/684-8060; Fax: 716/684-0844

## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr C's / East Aurora

Well ID: MW - 7

EEEPCC Project No.: 10C 3074.0011.04

Date: 4/26/16

Initial Depth to Water: 10.90 feet TOIC

Start Time: 09:50

Total Well Depth: 14.97 feet TOIC

End Time: 10:20

Depth to Pump: 13.47 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 250.0 Lpm/gpm ml/min

Pump Type: Lupheen

adjusted to: — at — minutes

Well Diameter: 2 inches

adjusted to: — at — minutes

1x Well Volume: 0.58 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 9:50am             | 0                                | 7.57         | 9.8              | 267.1       | 2.25                          | 5.99         | 75.0               | 10.94                 |
| 9:55am             | 1.25                             | 7.45         | 9.8              | 260.7       | 2.18                          | 5.99         | 66.5               | 10.94                 |
| 10:00              | 2.50                             | 7.42         | 9.5              | 258.7       | 2.17                          | 5.78         | 37.4               | 10.94                 |
| 10:05              | 3.75                             | 7.42         | 10.0             | 257.0       | 2.01                          | 6.30         | 15.1               | 10.94                 |
| 10:10              | 5.00                             | 7.44         | 10.0             | 258.4       | 1.86                          | 6.48         | 5.63               | 10.94                 |
| 10:15              | 6.25                             | 7.45         | 10.0             | 260.5       | 1.75                          | 6.58         | 2.52               | 10.94                 |
| 10:20              | 7.50                             | 7.45         | 9.9              | 263.4       | 1.75                          | 6.66         | 1.52               | 10.94                 |
| <div></div>        |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data: |                                  | 7.45         | 9.9              | 263.4       | 1.75                          | 6.66         | 1.52               | 10.94                 |

Sample ID: MW-7-APR16

Duplicate? ☐

Dupe Samp ID: —

Sample Time: 10:25

MS/MSD? ☐

Analyses: Methods:

Comments: Sampled at 250 ml/min

☒ VOCs ☐ CLP

☐ SVOCs ☐ SW846

☐ PCBs ☐ Drink. Wtr.

☐ Metals ☒ 8260C

☐ — ☐ —

Sampler(s): T. Dillon, X. Xue

## WELL PURGE &amp; SAMPLE RECORD

Site Name/Location: Mr C's / East Aurora

Well ID: PZ-3B

EEPC Project No.: 10C-3074.0011.04

Date: 4/26/16

Initial Depth to Water: 11.3 feet TOIC

Start Time: 9:00 am

Total Well Depth: 29.95 feet TOIC

End Time: 1125

Depth to Pump: 28.95 feet TOIC

☐ Bailer      ☒ Pump

Initial Pump Rate: 300.0 Lpm/gpm ml/m

Pump Type: Typhoon

adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes

Well Diameter: 2 inches

adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes

1x Well Volume: 3.06 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 11:00              | 0                                | 7.76         | 9.7              | 252.6       | 1.18                          | 6.23         | 43                 | 11.23                 |
| 11:05              | 1.5                              | 7.60         | 10.2             | 250.8       | 1.48                          | 3.61         | 60.9               | 11.23                 |
| 11:10              | 3.0                              | 7.50         | 10.4             | 246.8       | 1.87                          | 2.07         | 44.3               | 11.23                 |
| 11:15              | 4.5                              | 7.48         | 10.6             | 239.9       | 1.99                          | 1.57         | 35.5               | 11.23                 |
| 11:20              | 6.0                              | 7.48         | 10.7             | 233.2       | 2.02                          | 1.60         | 33.2               | 11.23                 |
| 11:25              | 7.5                              | 7.47         | 10.9             | 226.3       | 2.03                          | 1.52         | 30.0               | 11.23                 |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data: |                                  | 7.47         | 10.9             | 226.3       | 2.03                          | 1.52         | 30.0               | 11.23                 |

Sample ID: PZ-3B-Apr/6

Duplicate? ☒

Dupe Samp ID: P7-3B-APR16-Q

Sample Time: 11:25

MS/MSD? ☐

### Analyses:

**Methods:**

Comments:

☒ VOCs

☐ CLP

Sampled at 250 ml/min

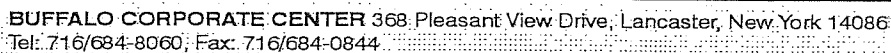
☐ SVOCs☐ SW846

☐ PCBs

☐ Drink Wtr☐ Metals

☒ 82600

Sampler(s): J. Dillon X Xue



## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr C's / East Aurora

Well ID: MU-11

EEPC Project No.: 10C 3074, 0011, 04

Date: 4/26/16

Initial Depth to Water: 9.51 feet TOIC

Start Time: 13:52

Total Well Depth: 17.45 feet TOIC

End Time: 1437

Depth to Pump: 16.95 feet TOIC

☐ Bailer                      ☒ Pump

Initial Pump Rate: 200 Lpm/gpm ml/m

Pump Type: Typhoon

adjusted to: 2000 at 2000 minutes

Well Diameter: 2 inches

adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes

1x Well Volume: 1.3 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 13:52              | 0                                | 7.74         | 10.3             | 259.7       | 1.42                          | 6.38         | 113                | 9.53                  |
| 13:57              | 1.0                              | 7.66         | 10.7             | 257.4       | 1.51                          | 5.23         | 104.3              | 9.53                  |
| 14:02              | 2.0                              | 7.58         | 11.0             | 255.4       | 1.63                          | 3.77         | 70.6               | 9.53                  |
| 14:07              | 3.0                              | 7.54         | 11.0             | 252.2       | 1.68                          | 3.07         | 51.8               | 9.53                  |
| 14:12              | 4.0                              | 7.52         | 11.1             | 249.1       | 1.71                          | 2.76         | 43.3               | 9.53                  |
| 14:17              | 5.0                              | 7.49         | 11.2             | 245.9       | 1.73                          | 2.75         | 32.6               | 9.53                  |
| 14:22              | 6.0                              | 7.49         | 11.2             | 243.8       | 1.74                          | 2.33         | 22.7               | 9.53                  |
| 14:27              | 7.0                              | 7.49         | 11.2             | 241.8       | 1.75                          | 2.15         | 19.2               | 9.53                  |
| 14:32              | 8.0                              | 7.48         | 11.2             | 239.7       | 1.74                          | 2.12         | 21.1               | 9.53                  |
| 14:37              | 9.0                              | 7.48         | 11.1             | 238.1       | 1.73                          | 2.15         | 18.3               | 9.53                  |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data: |                                  | 7.48         | 11.1             | 238.1       | 1.73                          | 2.15         | 18.3               | 9.53                  |

Sample ID: MW-11

~~Duplicate?~~ ☐

Dupe Samp ID:

Sample Time: 1440

~~MS/MSD?~~ ☒

Analyses:      Methods:

Comments: MS/MSD

☒ VOCs      ☐ CLP☐ SVOCs      ☐ SW846☐ PCBs      ☐ Drink. Wtr.☐ Metals      ☒ 82600

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Sampler(s): T.D. Hon, Xueqin Xue, S. Craig



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr C's / East Aurora

Well ID: ESI-SR

EEEPCC Project No.: 10C.3074.0011.04

Date: 4/27/16

Initial Depth to Water: 8.02 feet TOIC

Start Time: 0925

Total Well Depth: 14.25 feet TOIC

End Time: 1010

Depth to Pump: 13.25 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 200 (N/Lpm) / gpm

Pump Type: Hyphcon

adjusted to: — at — minutes

Well Diameter: 2 inches

adjusted to: — at — minutes

1x Well Volume: 1.01 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 0925               | 0                                | 7.09         | 10.4             | 321.5       | 7.14                          | 1.48         | 52                 | 8.11                  |
| 0930               | 1                                | 6.65         | 10.7             | 289.3       | 7.62                          | 0.61         | 49.9               | 8.11                  |
| 0935               | 2                                | 6.81         | 10.9             | 268.8       | 7.64                          | 0.39         | 18.4               | 8.11                  |
| 0940               | 3                                | 6.90         | 10.9             | 253.4       | 7.64                          | 0.48         | 18.9               | 8.11                  |
| 0945               | 4                                | 6.95         | 10.9             | 242.4       | 7.69                          | 0.57         | 13.1               | 8.11                  |
| 0950               | 5                                | 6.99         | 10.8             | 234.6       | 7.70                          | 0.67         | 14.65              | 8.11                  |
| 0955               | 6                                | 7.00         | 10.7             | 227.5       | 7.73                          | 0.64         | 11.2               | 8.11                  |
| 1000               | 7                                | 7.02         | 10.7             | 216.1       | 7.67                          | 0.66         | 7.96               | 8.11                  |
| 1005               | 8                                | 7.03         | 10.6             | 212.7       | 7.67                          | 0.68         | 4.73               | 8.11                  |
| 1010               | 9                                | 7.05         | 10.8             | 208.1       | 7.65                          | 0.71         | 3.58               | 8.11                  |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data: |                                  | 7.05         | 10.8             | 208.1       | 7.65                          | 0.71         | 3.58               | 8.11                  |

Sample ID: ESI-SR-APR16

Duplicate? ☐

Dupe Samp ID: —

Sample Time: 1012

MS/MSD? ☐

Analyses:

Methods:

Comments:

☒ VOCs

☐ CLP

☐ SVOCs

☐ SW846

☐ PCBs

☐ Drink. Wtr.

☐ Metals

☒ 8260C

☐ —

☐ —

Sampler(s): S. Craig, T. Dillon, X. Xue



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: MCC'S East Aurora

Well ID: EE-2

EEPC Project No.: 100 3074 coll. 01

Date: 4/27/16

Initial Depth to Water: 12.00 feet TOIC

Start Time: 10:50

Total Well Depth: 31.52 feet TOIC

End Time: \_\_\_\_\_

Depth to Pump: 30.52 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 150 mLpm / gpm

Pump Type: Hyphoon

adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes

Well Diameter: 2 inches

adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes

1x Well Volume: 3.18 gallons

| Time                            | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|---------------------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 10:50                           | 0                                | 7.29         | 13.4             | -39.0       | 3.57                          | 0.3          | >1000              | 12.54                 |
| 10:55                           | 0.75                             | 7.12         | 13.6             | -81.0       | 3.64                          | 0.13         | 71000              | 12.54                 |
| 11:00                           | 1.5                              | 7.12         | 13.8             | -82.5       | 3.61                          | 0.13         | >1000              | 12.54                 |
| 11:05                           | 2.25                             | 7.12         | 13.8             | -82.4       | 3.59                          | 0.17         | 71000              | 12.54                 |
| 11:10                           | 3.0                              | 7.11         | 13.9             | -84.0       | 3.57                          | 0.13         | <del>71000</del>   | 12.54                 |
| 11:15                           | 3.75                             | 7.11         | 13.9             | -84.8       | 3.57                          | 0.11         | 654                | 12.54                 |
| 11:20                           | 4.5                              | 7.11         | 13.8             | -84.0       | 3.57                          | 0.11         | 124                | 12.54                 |
| 11:25                           | 5.25                             | 7.11         | 13.8             | -83.7       | 3.57                          | 0.10         | 131                | 12.54                 |
| 11:30                           | 6.0                              | 7.11         | 13.8             | -84.2       | 3.57                          | 0.10         | 153                | 12.54                 |
| 11:35                           | 6.75                             | 7.12         | 13.8             | -83.7       | 3.57                          | 0.12         | 88.7               | 12.54                 |
| 11:40                           | 7.5                              | 7.11         | 13.8             | -83.4       | 3.57                          | 0.11         | 65.3               | 12.54                 |
| 11:45                           | 8.25                             | 7.11         | 13.8             | -83.4       | 3.56                          | 0.11         | 49.1               | 12.54                 |
| 11:50                           | 9.0                              | 7.12         | 14.0             | -83.7       | 3.56                          | 0.11         | 41.0               | 12.54                 |
| 11:55                           | 9.75                             | 7.12         | 13.9             | -84.1       | 3.56                          | 0.11         | 33.2               | 12.52                 |
| <u>Signature</u> <u>4/27/16</u> |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data:              |                                  | 7.12         | 13.9             | -84.1       | 3.56                          | 0.11         | 33.2               | 12.54                 |

Sample ID: EE-2-APR16

Duplicate? ☐

Dupe Samp ID: \_\_\_\_\_

Sample Time: 1157

MS/MSD? ☐

### Analyses:

### Methods:

### Comments:

☒ VOCs

☐ CLP

☐ SVOCs

☐ SW846

☐ PCBs

☐ Drink. Wtr.

☐ Metals

☒ 8260C

☐ \_\_\_\_\_

☐ \_\_\_\_\_

Sampler(s): S. Craig, T. Dillon, X. Xue



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr C's / East Aurora

Well ID: PZ-6A

EEEP Project No.: 10C 3074 0011.04

Date: 4/27/10

Initial Depth to Water: 11.35 feet TOIC

Start Time: 13:25

Total Well Depth: 28.68 feet TOIC

End Time: 14:10

Depth to Pump: \_\_\_\_\_ feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 150 mlpm gpm

Pump Type: Hyphoon

adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes

Well Diameter: 2 inches

adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes

1x Well Volume: 2.82 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 13:25              | 0                                | 7.19         | 11.8             | 143.2       | 4.25                          | 3.79         | 163                | 11.50                 |
| 13:30              | 0.75                             | 7.13         | 11.4             | 59.0        | 4.24                          | 0.92         | 143                | 11.50                 |
| 13:35              | 1.5                              | 7.08         | 11.5             | 35.7        | 4.2                           | 0.52         | 135                | 11.50                 |
| 13:40              | 2.25                             | 7.07         | 11.3             | 31.5        | 4.18                          | 0.42         | 104.7              | 11.50                 |
| 13:45              | 3.0                              | 7.05         | 11.3             | 25.9        | 4.15                          | 0.32         | 71.7               | 11.50                 |
| 13:50              | 3.75                             | 7.04         | 11.2             | 16.1        | 4.15                          | 0.26         | 52.0               | 11.50                 |
| 13:55              | 4.50                             | 7.04         | 11.2             | 9.7         | 4.14                          | 0.22         | 41.6               | 11.50                 |
| 14:00              | 5.25                             | 7.03         | 11.1             | 2.9         | 4.15                          | 0.22         | 34.2               | 11.50                 |
| 14:05              | 6.00                             | 7.03         | 11.1             | 0           | 4.15                          | 0.21         | 32.07              | 11.50                 |
| 14:10              | 6.75                             | 7.03         | 11.1             | -4.0        | 4.16                          | 0.21         | 31.0               | 11.50                 |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data: |                                  | 7.03         | 11.1             | -4.0        | 4.16                          | 0.21         | 31.0               | 11.50                 |

Sample ID: PZ-6A APR 16

Duplicate? ☐

Dupe Samp ID: \_\_\_\_\_

Sample Time: 14:10

MS/MSD? ☐

Analyses: \_\_\_\_\_

Methods: \_\_\_\_\_

Comments: \_\_\_\_\_

☒ VOCs

☐ CLP

☐ SVOCs

☐ SW846

☐ PCBs

☐ Drink. Wtr.

☐ Metals

☒ 82602

☐ \_\_\_\_\_

Sampler(s): T Dillon, S Craig, X Xue



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: M-C's / East Aurora

Well ID: PZ-8C

EEEPCC Project No.: 10C3074.0011.04

Date: 4/27/16

Initial Depth to Water: 7.47 feet TOIC

Start Time: 1425

Total Well Depth: 29.16 feet TOIC

End Time: 1510

Depth to Pump: 28.16 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 150 MLpm / gpm

Pump Type: Hyphom

adjusted to: - at - minutes

Well Diameter: 2 inches

adjusted to: - at - minutes

1x Well Volume: 3.53 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet)  |
|--------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|------------------------|
| 1425               | 0                                | 6.72         | 11.5             | -149.7      | 3.13                          | 3.55         | 29.2               | <del>10.746</del> 7.47 |
| 1430               | 0.75                             | 6.94         | 11.5             | -144.4      | 3.10                          | 3.11         | 27.1               | 7.48                   |
| 1435               | 1.5                              | 7.07         | 11.2             | -144.1      | 3.26                          | 2.08         | 24.4               | 7.48                   |
| 1440               | 2.25                             | 7.11         | 11.1             | -140.3      | 3.31                          | 1.75         | 18.0               | 7.48                   |
| 1445               | 3.0                              | 7.11         | 11.1             | -139.1      | 3.37                          | 1.49         | 15.7               | 7.48                   |
| 1450               | 3.75                             | 7.11         | 11.0             | -141.6      | 3.39                          | 1.20         | 14.2               | 7.48                   |
| 1500               | 4.5                              | 7.10         | 10.9             | -140.1      | 3.41                          | 0.96         | 12.4               | 7.48                   |
| 1505               | 5.25                             | 7.09         | 10.9             | -139.7      | 3.44                          | 0.90         | 13.8               | 7.48                   |
| 1510               | 6.0                              | 7.09         | 10.9             | -138.2      | 3.45                          | 0.89         | 13.84              | 7.48                   |
|                    |                                  |              |                  |             |                               |              |                    |                        |
|                    |                                  |              |                  |             |                               |              |                    |                        |
|                    |                                  |              |                  |             |                               |              |                    |                        |
|                    |                                  |              |                  |             |                               |              |                    |                        |
|                    |                                  |              |                  |             |                               |              |                    |                        |
|                    |                                  |              |                  |             |                               |              |                    |                        |
|                    |                                  |              |                  |             |                               |              |                    |                        |
| Final Sample Data: |                                  | 7.09         | 10.9             | -138.2      | 3.45                          | 0.89         | 13.84              | 7.48                   |

Sample ID: PZ-8C-APR16

Duplicate? ☐

Dupe Samp ID:                     

Sample Time: 1512

MS/MSD? ☐

Analyses:                      Methods:                      Comments:                     

☒ VOCs ☐ CLP                     

☐ SVOCs ☐ SW846                     

☐ PCBs ☐ Drink. Wtr.                     

☐ Metals ☒ 8240C                     

☐                      ☐                      Sampler(s): S. Craig, T. Dillon, X. Kuo



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr C's / East Aurora

Well ID: MPI-65

EEEP Project No.: 10C3074.001.04

Date: 4/28/16

Initial Depth to Water: 10.94 feet TOIC

Start Time: 0913

Total Well Depth: 21.52 feet TOIC

End Time: 0958

Depth to Pump: 20.52 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 150 (mL) / min / gpm

Pump Type: Hyphoon

adjusted to: — at — minutes

Well Diameter: 2 inches

adjusted to: — at — minutes

1x Well Volume: 1.72 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 0913               | 0                                | 6.01         | 9.7              | -54.1       | 1.81                          | 0.62         | 13.8               | 11.49                 |
| 0918               | 0.75                             | 6.10         | 9.7              | -63.5       | 1.89                          | 0.51         | 12.9               | 11.72                 |
| 0923               | 1.5                              | 6.14         | 9.9              | -77.4       | 1.93                          | 0.32         | 12.5               | 11.93                 |
| 0928               | 2.25                             | 6.16         | 9.9              | -86.3       | 2.08                          | 0.31         | 13.0               | 11.71                 |
| 0933               | 3.0                              | 6.15         | 10.0             | -90.1       | 2.17                          | 0.23         | 11.4               | 11.70                 |
| 0938               | 3.75                             | 6.13         | 10.0             | -93.7       | 2.26                          | 0.21         | 11.9               | 11.93                 |
| 0943               | 4.5                              | 6.12         | 10.1             | -97.3       | 2.32                          | 0.19         | 12.1               | 11.94                 |
| 0948               | 5.25                             | 6.13         | 10.0             | -99.8       | 2.37                          | 0.19         | 12.4               | 11.94                 |
| 0953               | 6.0                              | 6.13         | 10.1             | -102.2      | 2.40                          | 0.17         | 12.12              | 11.94                 |
| 0958               | 6.75                             | 6.13         | 10.0             | -103.4      | 2.41                          | 0.18         |                    | 11.94                 |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data: |                                  | 6.13         | 10.0             | -103.4      | 2.41                          | 0.18         | 12.                | 11.94                 |

Sample ID: MPI-65-APR16

Duplicate? ☐

Dupe Samp ID: —

Sample Time: 1000

MS/MSD? ☐

Analyses:

Methods:

Comments:

☒ VOCs

☐ CLP

Strong organic / Sulfur odor

☐ SVOCs

☐ SW846

☐ PCBs

☐ Drink. Wtr.

☐ Metals

☒ 8260C

☐

☐

Sampler(s): S. Craig, T. Dillon



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr C's / East Aurora

Well ID: MPI-4E

EEEP Project No.: 10C-3074-0011.04

Date: 4/28/10

Initial Depth to Water: 10.95 feet TOIC

Start Time: 1045

Total Well Depth: 41.90 feet TOIC

End Time: 1110

Depth to Pump: 40.90 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 200 mLpm / gpm

Pump Type: Leaphoon

adjusted to: — at — minutes

Well Diameter: 2 inches

adjusted to: — at — minutes

1x Well Volume: 5.04 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 1045               | 0                                | 6.57         | 11.5             | -110.4      | 2.28                          | 1.00         | 27.8               | 11.40                 |
| 1050               | 1                                | 6.73         | 11.7             | -130        | 2.28                          | 0.52         | 30.5               | 11.40                 |
| 1055               | 2                                | 6.87         | 11.6             | -138.5      | 2.27                          | 0.44         | 17.4               | 11.32                 |
| 1100               | 3                                | 6.97         | 11.8             | -143.5      | 2.24                          | 0.43         | 12.7               | 11.32                 |
| 1105               | 4                                | 7.02         | 11.7             | -144.4      | 2.21                          | 0.48         | 14.52              | 11.32                 |
| 1110               | 5                                | 7.04         | 11.5             | -144.0      | 2.20                          | 0.50         | 11.9               | 11.32                 |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data: |                                  | 7.04         | 11.5             | -144.0      | 2.20                          | 0.50         | 11.9               | 11.32                 |

Sample ID: MPI-4E-APR 10

Duplicate? ☐

Dupe Samp ID: —

Sample Time: 1112

MS/MSD? ☐

Analyses:

Methods:

Comments:

☒ VOCs

☐ CLP

☐ SVOCs

☐ SW846

☐ PCBs

☐ Drink. Wtr.

☐ Metals

☐ SLUOC

☐

☐

Sampler(s): S. Craig, T. Dillon



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: MCC's / East Aurora

Well ID: MPI-45

EEEP Project No.: 1003074.0011.04

Date: 4/28/10

Initial Depth to Water: 9.98 feet TOIC

Start Time: 1045

Total Well Depth: 20.73 feet TOIC

End Time: 1120

Depth to Pump: 19.73 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 200 mLpm / gpm

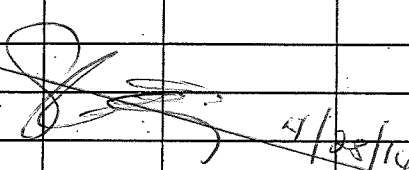
Pump Type: Hyphcon

adjusted to: — at — minutes

Well Diameter: 2 inches

adjusted to: — at — minutes

1x Well Volume: 1.75 gallons

| Time                                                                                 | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------------------------------------------------------------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 1045                                                                                 | 0                                | 6.75         | 10.8             | -98.4       | 4.61                          | 2.30         | 71000              | 10.31                 |
| 1050                                                                                 | 1                                | 6.83         | 10.9             | -87.3       | 4.79                          | 0.53         | 71000              | 10.31                 |
| 1055                                                                                 | 2                                | 6.80         | 10.8             | -67.9       | 4.79                          | 0.37         | 48                 | 10.31                 |
| 1100                                                                                 | 3                                | 6.87         | 10.9             | -55.2       | 4.70                          | 0.38         | 27.1               | 10.31                 |
| 1105                                                                                 | 4                                | 6.88         | 10.8             | -48.5       | 4.49                          | 0.49         | 19.6               | 10.31                 |
| 1110                                                                                 | 5                                | 6.90         | 10.8             | -43.8       | 4.24                          | 0.88         | 15.5               | 10.31                 |
| 1115                                                                                 | 6                                | 6.88         | 10.9             | -42.3       | 4.23                          | 0.92         | 14.11              | 10.31                 |
| 1120                                                                                 | 7                                | 6.88         | 10.8             | -41.0       | 4.27                          | 0.88         | 12.15              | 10.31                 |
|  |                                  |              |                  |             |                               |              |                    |                       |
|                                                                                      |                                  |              |                  |             |                               |              |                    |                       |
|                                                                                      |                                  |              |                  |             |                               |              |                    |                       |
|                                                                                      |                                  |              |                  |             |                               |              |                    |                       |
|                                                                                      |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data:                                                                   |                                  | 6.88         | 10.8             | -41.0       | 4.27                          | 0.88         | 12.15              | 10.31                 |

Sample ID: MPI-45-APR10

Duplicate? ☒

Dupe Samp ID: MPI-45-APR10-Q

Sample Time: 1122

MS/MSD? ☐

Analyses:

Methods:

Comments:

☒ VOCs

☐ CLP

☐ SVOCs

☐ SW846

☐ PCBs

☐ Drink. Wtr.

☐ Metals

☒ 8260C

☐

☐

Sampler(s): S. Craig T. Dillon



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mrc's / East Aurora

Well ID: PZ-5A

EEEP Project No.: 10C3074, 001104

Date: 4/28/10

Initial Depth to Water: 10.35 feet TOIC

Start Time: 1223

Total Well Depth: 28.35 feet TOIC

End Time: 1258

Depth to Pump: 27.35 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 250 mLpm / gpm

Pump Type: Hyphoon

adjusted to: - at - minutes

Well Diameter: 2 inches

adjusted to: - at - minutes

1x Well Volume: 2.93 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 1223               | 0                                | 7.47         | 11.7             | 106.1       | 2.65                          | 4.04         | 31.8               | 10.59                 |
| 1228               | 1.25                             | 7.28         | 12.2             | 121.4       | 2.75                          | 0.48         | 23.3               | 10.62                 |
| 1233               | 2.5                              | 7.23         | 12.2             | 113.4       | 2.70                          | 0.34         | 18.4               | 10.58                 |
| 1238               | 3.75                             | 7.22         | 12.3             | 119.2       | 2.66                          | 0.30         | 14.5               | 10.58                 |
| 1243               | 5.0                              | 7.21         | 12.2             | 118.1       | 2.61                          | 0.29         | 13.64              | 10.58                 |
| 1248               | 6.25                             | 7.20         | 12.3             | 118.5       | 2.59                          | 0.31         | 12.94              | 10.58                 |
| 1253               | 7.5                              | 7.19         | 12.3             | 119.7       | 2.58                          | 0.31         | 9.18               | 10.58                 |
| 1258               | 8.75                             | 7.19         | 12.3             | 117.6       | 2.57                          | 0.30         | 7.42               | 10.58                 |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data: |                                  | 7.19         | 12.3             | 117.6       | 2.57                          | 0.30         | 7.42               | 10.58                 |

Sample ID: PZ-5A-APR10

Duplicate? ☒

Dupe Samp ID: -

Sample Time: 1300

MS/MSD? ☒

### Analyses:

### Methods:

Comments:

☒ VOCs

☐ CLP

☐ SVOCs

☐ SW846

☐ PCBs

☐ Drink. Wtr.

☐ Metals

☒ 8240C

☐

☐

Sampler(s): S. Craig, T. Dillon



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Tel: 716/684-8060; Fax: 716/684-0844

## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr C's / East Aurora

Well ID: MPI-8SR

EEEP Project No.: 10C3074.001.04

Date: 4/28/16

Initial Depth to Water: 7.0 feet TOIC

Start Time: 1317

Total Well Depth: 17.40 feet TOIC

End Time: 1357

Depth to Pump: 16.40 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 200 mlpm / gpm

Pump Type: Hyphor

adjusted to: - at - minutes

Well Diameter: 2 inches

adjusted to: - at - minutes

1x Well Volume: 1.69 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm / nS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|---------------------------------|--------------|--------------------|-----------------------|
| 1317               | 0                                | 7.26         | 11.4             | -89.1       | 3.47                            | 6.97         | 20.8               | 9.72                  |
| 1322               | 1                                | 7.24         | 11.4             | -95.4       | 3.00                            | 0.63         | 14.0               | 9.72                  |
| 1327               | 2                                | 7.28         | 11.2             | -78.0       | 2.69                            | 0.41         | 10.92              | 9.72                  |
| 1332               | 3                                | 7.26         | 11.2             | -59.1       | 2.59                            | 0.31         | 6.13               | 9.72                  |
| 1337               | 4                                | 7.26         | 11.1             | -48.1       | 2.58                            | 0.29         | 4.05               | 9.72                  |
| 1342               | 5                                | 7.24         | 11.1             | -37.7       | 2.60                            | 0.27         | 3.49               | 9.72                  |
| 1348               | 6                                | 7.24         | 11.1             | -35.3       | 2.64                            | 0.18         | 2.79               | 9.72                  |
| 1352               | 7                                | 7.24         | 11.0             | -33.1       | 2.69                            | 0.18         | 2.73               | 9.72                  |
| 1357               | 8                                | 7.23         | 11.1             | -32.0       | 2.71                            | 0.17         | 2.72               | 9.72                  |
|                    |                                  |              |                  |             |                                 |              |                    |                       |
|                    |                                  |              |                  |             |                                 |              |                    |                       |
|                    |                                  |              |                  |             |                                 |              |                    |                       |
|                    |                                  |              |                  |             |                                 |              |                    |                       |
|                    |                                  |              |                  |             |                                 |              |                    |                       |
| Final Sample Data: |                                  | 7.23         | 11.1             | -32.0       | 2.71                            | 0.17         | 2.72               | 9.72                  |

Sample ID: MPI-8SR-APR16

Duplicate? ☐

Dupe Samp ID: -

Sample Time: 1359

MS/MSD? ☒

### Analyses:

### Methods:

### Comments:

☒ VOCs

☐ CLP

☐ SVOCs

☐ SW846

☐ PCBs

☐ Drink. Wtr.

☐ Metals

☒ 8260C

☐

☐

Sampler(s): S. Chang, T. Dillon



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: MFC'S / East Aurora

Well ID: MPI-9SR

EEPC Project No.: 10C3074.0011.04

Date: 4/28/16

Initial Depth to Water: 9.21 feet TOIC

Start Time: 1427

Total Well Depth: 17.48 feet TOIC

End Time: 1507

Depth to Pump: 10.48 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 250 mLpm / gpm

Pump Type: Hyphom

adjusted to: — at — minutes

Well Diameter: 2 inches

adjusted to: — at — minutes

1x Well Volume: 1.34 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 1427               | 0                                | 7.68         | 11.8             | 92.8        | 1.45                          | 1.16         | 831                | 9.29                  |
| 1432               | 1.25                             | 7.56         | 12.0             | 90.0        | 1.49                          | 0.63         | 57                 | 9.31                  |
| 1437               | 2.50                             | 7.56         | 12.0             | 82.4        | 1.39                          | 0.72         | 62.9               | 9.31                  |
| 1442               | 3.75                             | 7.57         | 12.1             | 76.8        | 1.42                          | 0.81         | 60.5               | 9.31                  |
| 1447               | 5.0                              | 7.55         | 12.1             | 71.8        | 1.50                          | 0.75         | 51.9               | 9.31                  |
| 1452               | 6.25                             | 7.50         | 12.2             | 68.8        | 1.63                          | 0.77         | 50.6               | 9.31                  |
| 1457               | 7.5                              | 7.45         | 12.2             | 65.6        | 1.79                          | 0.71         | 41.8               | 9.31                  |
| 1502               | 8.75                             | 7.41         | 12.1             | 62.8        | 1.79                          | 0.71         | 33.9               | 9.31                  |
| 1507               | 10                               | 7.39         | 12.2             | 61.2        | 1.81                          | 0.69         | 25.1               | 9.31                  |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data: |                                  | 7.39         | 12.2             | 61.2        | 1.81                          | 0.69         | 25.1               | 9.31                  |

Sample ID: MPI-9SR

Duplicate? ☐

Dupe Samp ID: —

Sample Time: 1510

MS/MSD? ☐

### Analyses:

### Methods:

Comments: —

☒ VOCs

☐ CLP

☐ SVOCs

☐ SW846

☐ PCBs

☐ Drink. Wtr.

☐ Metals

☒ 8260C

☐ —

☐ —

Sampler(s): S. Craig, T. Dillon



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr C's / East Aurora

Well ID: EE-3

EEPC Project No.: 10C3074.0011.04

Date: 4/29/10

Initial Depth to Water: 10.82 feet TOIC

Start Time: 0925

Total Well Depth: 28.00 feet TOIC

End Time: 1015

Depth to Pump: 27.00 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 200 (mLpm) / gpm

Pump Type: Lynphor

adjusted to: — at — minutes

Well Diameter: 2 inches

adjusted to: — at — minutes

1x Well Volume: — gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 0925               | 0                                | 6.48         | 11.5             | -75.4       | 4.96                          | 0.28         | 71000              | 10.86                 |
| 0930               | 1                                | 6.61         | 11.5             | -90.2       | 4.97                          | 0.19         | 108                | 10.86                 |
| 0935               | 2                                | 6.71         | 11.6             | -97.9       | 4.98                          | 0.17         | 43                 | 10.86                 |
| 0940               | 3                                | 6.80         | 11.7             | -105.9      | 4.98                          | 0.16         | 12.60              | 10.86                 |
| 0945               | 4                                | 6.84         | 11.7             | -109.1      | 4.98                          | 0.15         | 4.55               | 10.86                 |
| 0950               | 5                                | 6.87         | 11.8             | -113.1      | 4.98                          | 0.21         | 6.28               | 10.86                 |
| 0955               | 6                                | 6.89         | 11.9             | -115.8      | 4.98                          | 0.29         | 10.21              | 10.86                 |
| 1000               | 7                                | 6.91         | 11.9             | -117.7      | 4.98                          | 0.19         | 3.15               | 10.86                 |
| 1005               | 8                                | 6.93         | 11.9             | -119.2      | 4.98                          | 0.13         | 3.09               | 10.86                 |
| 1010               | 9                                | 6.94         | 11.9             | -120.4      | 4.98                          | 0.14         | 2.38               | 10.86                 |
| 1015               | 10                               | 6.94         | 11.9             | -121.1      | 4.98                          | 0.14         | 2.95               | 10.86                 |
|                    |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data: |                                  | 6.94         | 11.9             | -121.1      | 4.98                          | 0.14         | 2.95               | 10.86                 |

Sample ID: EE-3-APR10

Duplicate? ☐

Dupe Samp ID: —

Sample Time: 1017

MS/MSD? ☐

Analyses:

Methods:

Comments:

☒ VOCs

☐ CLP

☐ SVOCs

☐ SW846

☐ PCBs

☐ Drink. Wtr.

☐ Metals

☒ 8260C

☐

☐

Sampler(s): S. Craig, T. Dillon



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mc O'S / East Aurora

Well ID: MPI-3S

EEPC Project No.: 10C 3074.00/1.04

Date: 4/29/16

Initial Depth to Water: 10.22 feet TOIC

Start Time: 1030

Total Well Depth: 17.88 feet TOIC

End Time: 1105

Depth to Pump: 10.88 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 250 mLpm / gpm

Pump Type: Hyphoon

adjusted to: — at — minutes

Well Diameter: 2 inches

adjusted to: — at — minutes

1x Well Volume: 1.24 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 1030               | 0                                | 7.20         | 141.0            | 10.4        | 2.70                          | 0.18         | 71000              | 10.40                 |
| 1035               | 1.25                             | 7.18         | 10.4             | -143.2      | 2.69                          | 0.19         | 986                | 10.40                 |
| 1040               | 2.5                              | 7.14         | 10.5             | -136.7      | 2.70                          | 0.14         | 106.2              | 10.40                 |
| 1045               | 3.75                             | 7.12         | 10.6             | -130.5      | 2.70                          | 0.13         | 72.1               | 10.40                 |
| 1050               | 5.0                              | 7.11         | 10.7             | -127.0      | 2.71                          | 0.15         | 51.0               | 10.40                 |
| 1055               | 6.25                             | 7.11         | 10.7             | -126.6      | 2.73                          | 0.16         | 36.6               | 10.40                 |
| 1100               | 7.5                              | 7.11         | 10.7             | -126.9      | 2.73                          | 0.16         | 28.8               | 10.40                 |
| 1105               | 8.75                             | 7.11         | 10.8             | -127.1      | 2.72                          | 0.15         | 26.3               | 10.40                 |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data: |                                  | 7.11         | 10.8             | -127.1      | 2.72                          | 0.15         | 26.3               | 10.40                 |

Sample ID: MPI-3S-APR16

Duplicate? ☐

Dupe Samp ID: —

Sample Time: 1107

MS/MSD? ☐

### Analyses:

### Methods:

Comments: —

☒ VOCs

☐ CLP

☐ SVOCs

☐ SW846

☐ PCBs

☐ Drink. Wtr.

☐ Metals

☒ 8260C

☐ —

☐ —

Sampler(s): S. Craig, T. Dillon



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr C's / East Aurora

Well ID: MPF-15

EEEPCC Project No.: 10C30741.0011.04

Date: 4/29/16

Initial Depth to Water: 10.31 feet TOIC

Start Time: 1117

Total Well Depth: 19.00 feet TOIC

End Time: 1157

Depth to Pump: 18.00 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 200 mLpm / gpm

Pump Type: Hyphoon

adjusted to: - at - minutes

Well Diameter: 2 inches

adjusted to: - at - minutes

1x Well Volume: - gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 1117               | 0                                | 7.56         | 10.07            | 31.0        | 1.93                          | 3.40         | 63.9               | 10.36                 |
| 1122               | 1                                | 7.54         | 10.8             | 34.4        | 1.96                          | 3.01         | 61.5               | 10.42                 |
| 1127               | 2                                | 7.52         | 10.5             | 41.5        | 1.96                          | 3.02         | 45.8               | 10.45                 |
| 1132               | 3                                | 7.50         | 11.0             | 47.8        | 1.96                          | 2.74         | 28.3               | 10.53                 |
| 1137               | 4                                | 7.49         | 10.7             | 53.3        | 1.97                          | 2.52         | 22.9               | 10.53                 |
| 1142               | 5                                | 7.47         | 11.00            | 59.5        | 1.97                          | 2.70         | 15.9               | 10.53                 |
| 1147               | 6                                | 7.46         | 11.00            | 62.2        | 1.99                          | 2.70         | 11.2               | 10.53                 |
| 1152               | 7                                | 7.45         | 11.00            | 64.0        | 2.04                          | 2.70         | 11.01              | 10.53                 |
| 1157               | 8                                | 7.45         | 10.9             | 62.0        | 2.01                          | 2.75         | 10.8               | 10.53                 |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
|                    |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data: |                                  | 7.45         | 10.9             | 62.0        | 2.01                          | 2.45         | 10.8               | 10.53                 |

Sample ID: MPF-15-APR16

Duplicate? ☐

Dupe Samp ID: -

Sample Time: 1200

MS/MSD? ☐

Analyses:

Methods:

Comments:

☒ VOCs

☐ CLP

☐ SVOCs

☐ SW846

☐ PCBs

☐ Drink. Wtr.

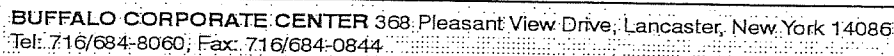
☐ Metals

☒ 8260C

☐

☐

Sampler(s): S. Craig, T. Dillon





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## WELL PURGE & SAMPLE RECORD

Site Name/Location: MFC'S / East Aurora

Well ID: ESI-6

EEPC Project No.: 10C3074 001104

Date: 4/29/16

Initial Depth to Water: 10.35 feet TOIC

Start Time: 1355

Total Well Depth: 16.35 feet TOIC

End Time: 1450

Depth to Pump: 15.35 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 200 ml Lpm / gpm

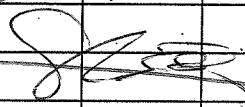
Pump Type: Hyphoon

adjusted to: — at — minutes

Well Diameter: 2 inches

adjusted to: — at — minutes

1x Well Volume: 0.97 gallons

| Time                                                                                        | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm / mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|---------------------------------------------------------------------------------------------|----------------------------------|--------------|------------------|-------------|---------------------------------|--------------|--------------------|-----------------------|
| 1355                                                                                        | 0                                | 7.40         | 11.9             | 165.2       | 4.26                            | 1.66         | 71000              | 10.35                 |
| 1400                                                                                        | 1                                | 7.27         | 12.1             | 161.8       | 4.28                            | 0.62         | 931                | 10.35                 |
| 1405                                                                                        | 2                                | 7.23         | 12.2             | 159.4       | 4.29                            | 0.43         | 49.5               | 10.35                 |
| 1410                                                                                        | 3                                | 7.20         | 12.3             | 154.8       | 4.29                            | 0.42         | 34.8               | 10.35                 |
| 1415                                                                                        | 4                                | 7.19         | 12.3             | 149.7       | 4.29                            | 0.35         | 17.9               | 10.35                 |
| 1420                                                                                        | 5                                | 7.18         | 12.3             | 143.0       | 4.29                            | 0.33         | 11.9               | 10.35                 |
| 1425                                                                                        | 6                                | 7.16         | 12.3             | 135.3       | 4.29                            | 0.34         | 9.43               | 10.35                 |
| 1430                                                                                        | 7                                | 7.16         | 12.4             | 125.7       | 4.29                            | 0.47         | 7.63               | 10.35                 |
| 1435                                                                                        | 8                                | 7.14         | 12.3             | 116.4       | 4.30                            | 0.29         | 6.41               | 10.35                 |
| 1440                                                                                        | 9                                | 7.16         | 12.3             | 99.3        | 4.30                            | 0.25         | 4.25               | 10.35                 |
| 1445                                                                                        | 10                               | 7.15         | 12.3             | 94.7        | 4.29                            | 0.21         | 3.49               | 10.35                 |
| 1450                                                                                        | 11                               | 7.14         | 12.3             | 91.7        | 4.30                            | 0.19         | 3.37               | 10.35                 |
|  4/29/16 |                                  |              |                  |             |                                 |              |                    |                       |
| Final Sample Data:                                                                          |                                  | 7.16         | 12.3             | 91.7        | 4.30                            | 0.19         | 3.37               | 10.35                 |

Sample ID: ESI-6-APR16

Duplicate? ☐

Dupe Samp ID: —

Sample Time: 1452

MS/MSD? ☐

Analyses:

Methods:

Comments:

☒ VOCs

☐ CLP

☐ SVOCs

☐ SW846

☐ PCBs

☐ Drink. Wtr.

☐ Metals

☒ 8260C

☐ —

☐ —

Sampler(s):

S. Georg, T. Dillon



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr. C's / East Aurora

Well ID: MPI-13BR

EEEP Project No.: 10C3074.0011.04

Date: 5/2/16

Initial Depth to Water: 8.92 feet TOIC

Start Time: 0945

Total Well Depth: 30.87 feet TOIC

End Time: 1055

Depth to Pump: 32.0 <sup>29.87</sup> feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 200 <sup>m</sup> Lpm / gpm

Pump Type: Hyphoon

adjusted to: - at - minutes

Well Diameter: 2 inches

adjusted to: - at - minutes

1x Well Volume: 3.57 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm. mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|--------------------------------|--------------|--------------------|-----------------------|
| 0945               | 0                                | 6.34         | 10.8             | 0.3         | 1.75                           | 0.82         | 71000              | 8.91                  |
| 0950               | 1                                | 6.59         | 10.6             | -30.1       | 1.77                           | 0.53         | 71000              | 8.91                  |
| 0955               | 2                                | 6.75         | 10.7             | -19.8       | 1.78                           | 0.39         | 71000              | 8.91                  |
| 1000               | 3                                | 6.81         | 10.6             | -9.9        | 1.79                           | 0.38         | 830                | 8.91                  |
| 1005               | 4                                | 6.88         | 10.7             | 1.4         | 1.80                           | 0.38         | 681                | 8.91                  |
| 1010               | 5                                | 6.92         | 10.7             | 6.9         | 1.82                           | 0.51         | 602                | 8.91                  |
| 1015               | 6                                | 6.94         | 10.8             | 6.7         | 1.84                           | 0.35         | 123                | 8.91                  |
| 1020               | 7                                | 6.95         | 10.7             | 4.6         | 1.87                           | 0.33         | 106                | 8.91                  |
| 1025               | 8                                | 6.96         | 10.7             | 2.3         | 1.86                           | 0.30         | 86                 | 8.91                  |
| 1030               | 9                                | 6.96         | 10.7             | 0.1         | 1.92                           | 0.31         | 77                 | 8.91                  |
| 1035               | 10                               | 6.96         | 10.7             | -2.5        | 1.96                           | 0.31         | 61                 | 8.91                  |
| 1040               | 11                               | 6.97         | 10.7             | -5.1        | 1.99                           | 0.27         | 50                 | 8.91                  |
| 1045               | 12                               | 6.97         | 10.7             | -8.4        | 2.02                           | 0.27         | 43                 | 8.91                  |
| 1050               | 13                               | 6.97         | 10.7             | -9.1        | 2.04                           | 0.26         | 31                 | 8.91                  |
| 1055               | 14                               | 6.97         | 10.7             | -9.2        | 2.04                           | 0.25         | 27                 | 8.91                  |
| Final Sample Data: |                                  | 6.97         | 10.7             | -9.2        | 2.04                           | 0.25         | 27                 | 8.91                  |

Sample ID: MPI-13BR-MAY16

Duplicate? ☐

Dupe Samp ID: -

Sample Time: 1057

MS/MSD? ☐

Analyses:

Methods:

Comments:

☒ VOCs

☐ CLP

☐ SVOCs

☐ SW846

☐ PCBs

☐ Drink. Wtr.

☐ Metals

82400

☐

☐

Sampler(s): S. Araig, T. Dillon



# ecology and environment engineering, p.c.

International Specialists in the Environment

BUFFALO CORPORATE CENTER 368 Pleasant View Drive, Lancaster, New York 14086

Tel: 716/684-8060, Fax: 716/684-0844

## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr C's / East Aurora

Well ID: MPI-1413R

EEPC Project No.: 10C 3074.0011.04

Date: 5/2/14

Initial Depth to Water: 9.75 feet TOIC

Start Time: 1125

Total Well Depth: 28.21 feet TOIC

End Time: 1235

Depth to Pump: 27.21 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 250 (m) Lpm / gpm

Pump Type: typhoon

adjusted to: - at - minutes

Well Diameter: 2 inches

adjusted to: - at - minutes

1x Well Volume: 3.0 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 1125               | 0                                | 7.15         | 10.9             | -89.1       | 2.09                          | 0.43         | 71000              | 9.74                  |
| 1130               | 1.25                             | 7.08         | 11.0             | -97.4       | 2.11                          | 0.31         | 71000              | 9.74                  |
| 1135               | 2.5                              | 6.94         | 11.1             | -103.2      | 2.14                          | 0.19         | 71000              | 9.76                  |
| 1140               | 3.75                             | 6.93         | 11.0             | -99.4       | 2.14                          | 0.24         | 71000              | 9.76                  |
| 1145               | 5.0                              | 6.92         | 11.0             | -95.4       | 2.14                          | 0.13         | 71000              | 9.76                  |
| 1150               | 6.25                             | 6.92         | 11.0             | -90.7       | 2.14                          | 0.15         | 71000              | 9.76                  |
| 1155               | 7.5                              | 6.92         | 11.0             | -85.2       | 2.14                          | 0.13         | 71000              | 9.76                  |
| 1200               | 8.75                             | 6.92         | 11.0             | -79.9       | 2.15                          | 0.11         | 71000              | 9.76                  |
| 1205               | 10.0                             | 6.92         | 11.0             | -74.5       | 2.16                          | 0.10         | 882                | 9.76                  |
| 1210               | 11.25                            | 6.92         | 11.0             | -72.6       | 2.18                          | 0.13         | 776                | 9.76                  |
| 1215               | 12.5                             | 6.92         | 11.0             | -68.9       | 2.19                          | 0.13         | 82                 | 9.76                  |
| 1220               | 13.75                            | 6.92         | 11.0             | -65.1       | 2.22                          | 0.12         | 50                 | 9.76                  |
| 1225               | 15.0                             | 6.92         | 11.0             | -55.9       | 2.24                          | 0.11         | 34                 | 9.76                  |
| 1230               | 16.25                            | 6.92         | 10.9             | -58.2       | 2.25                          | 0.13         | 38                 | 9.76                  |
| 1235               | 17.5                             | 6.92         | 10.9             | -60.6       | 2.25                          | 0.14         | 34                 | 9.74                  |
| Final Sample Data: |                                  | 6.92         | 10.9             | -60.6       | 2.25                          | 0.14         | 34                 | 9.74                  |

Sample ID: MPI-1413R-MAY16

Duplicate? ☐

Dupe Samp ID: -

Sample Time: 1237

MS/MSD? ☐

Analyses: Methods: Comments: -

☒ VOCs ☐ CLP -

☐ SVOCs ☐ SW846 -

☐ PCBs ☐ Drink. Wtr. -

☐ Metals ☒ VOC8260c -

☐ - ☐ - Sampler(s): S. Craig, T.D. Iken



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Tel: 716/684-8060, Fax: 716/684-0844

## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr C's / East Aurora

Well ID: MPI-15B

EEEP Project No.: 1003074 0011.04

Date: 5/2/16

Initial Depth to Water: 9.61 feet TOIC

Start Time: 1350

Total Well Depth: 18.30 feet TOIC

End Time: 1435

Depth to Pump: 17.30 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 100 mLpm / gpm

Pump Type: Luphron

adjusted to: — at — minutes

Well Diameter: 2 inches

adjusted to: — at — minutes

1x Well Volume: 1.41 gallons

| Time               | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm / mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------|----------------------------------|--------------|------------------|-------------|---------------------------------|--------------|--------------------|-----------------------|
| 1350               | 0                                | 7.62         | 10.4             | 153.1       | 1.62                            | 8.70         | 735                | 9.79                  |
| 1355               | 0.5                              | 7.59         | 10.6             | 153.1       | 1.62                            | 7.70         | 603                | 9.79                  |
| 1400               | 1.0                              | 7.50         | 10.8             | -1.3        | 1.63                            | 5.90         | 615                | 9.79                  |
| 1405               | 1.5                              | 7.41         | 10.8             | -75.7       | 1.65                            | 4.58         | 49                 | 9.79                  |
| 1410               | 2.0                              | 7.31         | 10.9             | -100.2      | 1.64                            | 3.62         | 37                 | 9.79                  |
| 1415               | 2.5                              | 7.24         | 10.9             | -108.7      | 1.69                            | 2.17         | 23                 | 9.79                  |
| 1420               | 3.0                              | 7.19         | 10.9             | -116.4      | 1.70                            | 1.47         | 0                  | 9.79                  |
| 1425               | 3.5                              | 7.17         | 11.0             | -122.4      | 1.71                            | 1.17         | 0                  | 9.79                  |
| 1430               | 4.0                              | 7.15         | 11.0             | -127.5      | 1.72                            | 1.13         | 0                  | 9.79                  |
| 1435               | 4.5                              | 7.15         | 11.0             | -129.7      | 1.72                            | 1.16         | 0                  | 9.79                  |
|                    |                                  |              |                  |             |                                 |              |                    |                       |
|                    |                                  |              |                  |             |                                 |              |                    |                       |
|                    |                                  |              |                  |             |                                 |              |                    |                       |
|                    |                                  |              |                  |             |                                 |              |                    |                       |
| Final Sample Data: |                                  | 7.15         | 11.0             | -129.7      | 1.72                            | 1.16         | 0                  | 9.79                  |

Sample ID: MPI-15B-MAY 16

Duplicate? ☐

Dupe Samp ID: —

Sample Time: 1437

MS/MSD? ☐

Analyses:

Methods:

Comments:

☒ VOCs

☐ CLP

☐ SVOCs

☐ SW846

☐ PCBs

☐ Drink. Wtr.

☐ Metals

☒ 8260C

☐ —

☐ —

Sampler(s): S. Craig, T. Dillon



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr C's / East Aurora

Well ID: EST-2R

EEEP Project No.: 10C3074.0011.04

Date: 5/2/14

Initial Depth to Water: 12.06 feet TOIC

Start Time: 1500

Total Well Depth: 19.04 feet TOIC

End Time: 1535

Depth to Pump: 18.04 feet TOIC

☐ Bailer ☒ Pump

Initial Pump Rate: 200 MLpm gpm

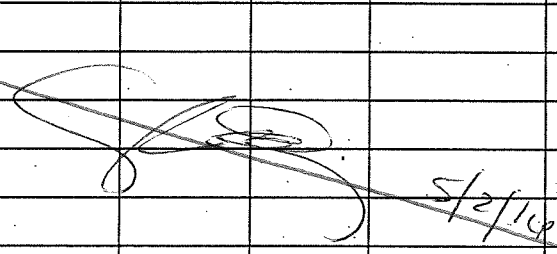
Pump Type: Hyphoon

adjusted to: — at — minutes

Well Diameter: 2 inches

adjusted to: — at — minutes

1x Well Volume: 1.04 gallons

| Time                                                                                 | Purge Volume<br>(gallons/liters) | pH<br>(s.u.) | Temp.<br>(°C/°F) | ORP<br>(mV) | Conductivity<br>(µS/cm mS/cm) | DO<br>(mg/L) | Turbidity<br>(NTU) | Water<br>Level (feet) |
|--------------------------------------------------------------------------------------|----------------------------------|--------------|------------------|-------------|-------------------------------|--------------|--------------------|-----------------------|
| 1500                                                                                 | 0                                | 7.18         | 11.8             | -91.8       | 3.17                          | 2.45         | 71000              | 12.08                 |
| 1505                                                                                 | 1                                | 6.86         | 12.0             | -92.3       | 3.08                          | 1.85         | 766                | 12.08                 |
| 1510                                                                                 | 2                                | 6.86         | 12.0             | -73.6       | 2.40                          | 2.57         | 50                 | 12.08                 |
| 1515                                                                                 | 3                                | 6.85         | 12.1             | -59.5       | 2.12                          | 2.74         | 1.00               | 12.08                 |
| 1520                                                                                 | 4                                | 6.83         | 12.1             | -50.5       | 2.02                          | 3.08         | 9.6                | 12.08                 |
| 1525                                                                                 | 5                                | 6.82         | 12.1             | -45.9       | 1.99                          | 2.90         | 11.7               | 12.08                 |
| 1530                                                                                 | 6                                | 6.81         | 12.1             | -44.4       | 1.97                          | 2.90         |                    | 12.08                 |
| 1535                                                                                 | 7                                | 6.81         | 12.1             | -40.1       | 1.96                          | 2.92         |                    | 12.08                 |
|  |                                  |              |                  |             |                               |              |                    |                       |
|                                                                                      |                                  |              |                  |             |                               |              |                    |                       |
|                                                                                      |                                  |              |                  |             |                               |              |                    |                       |
|                                                                                      |                                  |              |                  |             |                               |              |                    |                       |
|                                                                                      |                                  |              |                  |             |                               |              |                    |                       |
| Final Sample Data:                                                                   |                                  | 6.81         | 12.1             | -40.1       | 1.96                          | 2.92         |                    | 12.08                 |

Sample ID: EST-2R-MAY16

Duplicate? ☐

Dupe Samp ID: —

Sample Time: 1540

MS/MSD? ☐

Analyses: Methods:

Comments: —

☒ VOCs ☐ CLP

☐ SVOCs ☐ SW846

☐ PCBs ☐ Drink. Wtr.

☐ Metals ☒ 8260C

☐ — ☐ —

Sampler(s): S. Craig, T. Dillon

**ATTACHMENT B**  
**IEG Water Levels**



**MR. C's DRY CLEANERS SITE**  
**NYSDEC Site #9-15-157**  
**OM&M: PIEZOMETER WATER LEVEL LOG**

**Date:** May 10-11, 2016

**Measurements taken by:**

R. Allen

|             |          |                   |             |          |                      |
|-------------|----------|-------------------|-------------|----------|----------------------|
| <b>RW-1</b> | 11.10 ft |                   | <b>PW-5</b> | 10.10 ft |                      |
| PZ-1A       | 11.05 ft |                   | PZ-5A       | 10.43 ft |                      |
| PZ-1B       | 10.86 ft |                   | PZ-5B       | 10.54 ft |                      |
| PZ-1C       | 12.00 ft |                   | PZ-5C       | 10.13 ft |                      |
| PZ-1D       | 12.17 ft |                   | PZ-5D       | 10.92 ft |                      |
| <b>PW-2</b> | 10.70 ft |                   | <b>PW-6</b> | 11.30 ft |                      |
| PZ-2A       | 10.67 ft |                   | PZ-6A       | 11.43 ft |                      |
| PZ-2B       | 11.01 ft |                   | PZ-6B       | 11.29 ft |                      |
| PZ-2C       | 10.51 ft |                   | PZ-6C       | 11.56 ft |                      |
| MW-7        | 11.02 ft | Substitute for 2D | PZ-6D       | 11.28 ft | Shown as RW-2 on Map |
| <b>PW-3</b> | 11.30 ft |                   | <b>PW-7</b> | 10.80 ft |                      |
| PZ-3A       | 11.19 ft |                   | MPI-6S      | 11.04 ft | Needs Bolt           |
| PZ-3B       | 11.25 ft |                   | PZ-7B       | 11.11 ft |                      |
| PZ-3C       | 11.73 ft |                   | OW-B        | 11.00 ft |                      |
| PZ-3D       | 11.23 ft |                   | PZ-7D       | 10.56 ft | Product at 11.70     |
| <b>PW-4</b> | 10.60 ft |                   | <b>PW-8</b> | 7.30 ft  |                      |
| PZ-4A       | 11.38 ft |                   | PZ-8A       | 7.97 ft  |                      |
| PZ-4B       | 10.54 ft |                   | PZ-8B       | 7.92 ft  |                      |
| PZ-4C       | ----- ft | Sealed Over       | PZ-8C       | 7.58 ft  |                      |
| PZ-4D       | 10.17 ft |                   | PZ-8D       | 7.84 ft  |                      |

| OTHER WELLS |        |                                                      |         |       |    |          |       |    |        |       |    |
|-------------|--------|------------------------------------------------------|---------|-------|----|----------|-------|----|--------|-------|----|
| EE-1        | Sealed | ft                                                   | MPI-1S  | 10.41 | ft | MPI-7IR  | 10.86 | ft | ESI-3  | 10.85 | ft |
| EE-2        | 12.20  | ft                                                   | MPI-2SR | 11.03 | ft | MPI-8SR  | 9.84  | ft | ESI-6  | 10.46 | ft |
| EE-3        | 10.88  | ft                                                   | MPI-3S  | 10.37 | ft | MPI-9SR  | 9.38  | ft | ESI-2R | 12.89 | ft |
| EE-4        | 12.23  | ft                                                   | MPI-4S  | 9.76  | ft | MPI-13BR | 9.19  | ft | ESI-5R | 8.14  | ft |
| MW-8        | 11.07  | ft                                                   | MPI-4I  | 11.03 | ft | MPI-14BR | 10.12 | ft |        |       |    |
| MW-11       | 9.64   | ft                                                   | MPI-5S  | 11.71 | ft | MPI-15B  | 9.84  | ft |        |       |    |
|             |        |                                                      |         |       |    |          |       |    |        |       |    |
| COMMENTS:   |        | PZ-4B needs new inner ring                           |         |       |    |          |       |    |        |       |    |
|             |        | MPI-9BR - lock should be cut so riser seats properly |         |       |    |          |       |    |        |       |    |

**MR. C's DRY CLEANERS SITE**  
**NYSDEC Site #9-15-157**  
**OM&M: PIEZOMETER WATER LEVEL LOG**

**Date:** Apr 13-14, 2016

**Measurements taken by:**

R. Allen

|             |          |                   |             |          |                      |
|-------------|----------|-------------------|-------------|----------|----------------------|
| <b>RW-1</b> | 10.70 ft |                   | <b>PW-5</b> | 9.70 ft  |                      |
| PZ-1A       | 10.63 ft |                   | PZ-5A       | 9.85 ft  |                      |
| PZ-1B       | 10.47 ft |                   | PZ-5B       | 10.12 ft |                      |
| PZ-1C       | 11.58 ft |                   | PZ-5C       | 9.72 ft  |                      |
| PZ-1D       | 11.74 ft |                   | PZ-5D       | 10.50 ft |                      |
| <b>PW-2</b> | 10.20 ft |                   | <b>PW-6</b> | 10.90 ft |                      |
| PZ-2A       | 10.21 ft |                   | PZ-6A       | 11.04 ft |                      |
| PZ-2B       | 10.77 ft |                   | PZ-6B       | 10.88 ft |                      |
| PZ-2C       | 10.04 ft |                   | PZ-6C       | 11.14 ft |                      |
| MW-7        | 10.62 ft | Substitute for 2D | PZ-6D       | 10.89 ft | Shown as RW-2 on Map |
| <b>PW-3</b> | 10.80 ft |                   | <b>PW-7</b> | 10.40 ft |                      |
| PZ-3A       | 10.70 ft |                   | MPI-6S      | 10.58 ft |                      |
| PZ-3B       | 10.79 ft |                   | PZ-7B       | 10.70 ft | Trimmed Riser        |
| PZ-3C       | 11.34 ft |                   | OW-B        | 10.64 ft |                      |
| PZ-3D       | 10.03 ft |                   | PZ-7D       | 7.52 ft  |                      |
| <b>PW-4</b> | 10.20 ft |                   | <b>PW-8</b> | 6.80 ft  |                      |
| PZ-4A       | 10.73 ft |                   | PZ-8A       | 7.55 ft  |                      |
| PZ-4B       | 10.12 ft |                   | PZ-8B       | 7.51 ft  |                      |
| PZ-4C       | ----- ft | Sealed Over       | PZ-8C       | 7.40 ft  |                      |
| PZ-4D       | 9.78 ft  | Trimmed Riser     | PZ-8D       | 7.27 ft  | Trimmed Riser        |

| OTHER WELLS |               |                                                                  |          |          |          |        |          |
|-------------|---------------|------------------------------------------------------------------|----------|----------|----------|--------|----------|
| EE-1        | Paved over ft | MPI-1S                                                           | 10.05 ft | MPI-7IR  | 10.45 ft | ESI-3  | 10.48 ft |
| EE-2        | 10.65 ft      | MPI-2SR                                                          | 10.67 ft | MPI-8SR  | 9.47 ft  | ESI-6  | 10.14 ft |
| EE-3        | 10.51 ft      | MPI-3S                                                           | 9.99 ft  | MPI-9SR  | 8.15 ft  | ESI-2R | 12.47 ft |
| EE-4        | 11.80 ft      | MPI-4S                                                           | 8.13 ft  | MPI-13BR | 8.72 ft  | ESI-5R | 7.81 ft  |
| MW-8        | 10..67 ft     | MPI-4I                                                           | 10.57 ft | MPI-14BR | 9.89 ft  |        |          |
| MW-11       | 9.23 ft       | MPI-5S                                                           | 11.31 ft | MPI-15B  | 9.37 ft  |        |          |
|             |               |                                                                  |          |          |          |        |          |
| COMMENTS:   |               | MPI-6S - needs bolt MPI-1S - needs concrete chipped around riser |          |          |          |        |          |
|             |               | PW-8 - needs soil added where excavation settled                 |          |          |          |        |          |

**MR. C's DRY CLEANERS SITE**  
**NYSDEC Site #9-15-157**  
**OM&M: PIEZOMETER WATER LEVEL LOG**

Date: 11-Mar-16

Measurements taken by: R. Allen

|             |          |                   |             |           |                      |
|-------------|----------|-------------------|-------------|-----------|----------------------|
| <b>RW-1</b> | 10.40 ft |                   | <b>PW-5</b> | 9.30 ft   |                      |
| PZ-1A       | 10.46 ft |                   | PZ-5A       | 9.63 ft   |                      |
| PZ-1B       | 10.18 ft |                   | PZ-5B       | 9.73 ft   |                      |
| PZ-1C       | 11.36 ft |                   | PZ-5C       | 9.32 ft   |                      |
| PZ-1D       | 11.48 ft |                   | PZ-5D       | 10.09 ft  |                      |
| <b>PW-2</b> | 9.90 ft  |                   | <b>PW-6</b> | 10.50 ft  |                      |
| PZ-2A       | 9.95 ft  |                   | PZ-6A       | 10.66 ft  |                      |
| PZ-2B       | 10.29 ft |                   | PZ-6B       | 10.51 ft  |                      |
| PZ-2C       | 9.77 ft  |                   | PZ-6C       | 10.78 ft  |                      |
| MW-7        | 10.30 ft | Substitute for 2D | PZ-6D       | 10.52 ft  | Shown as RW-2 on Map |
| <b>PW-3</b> | 10.50 ft |                   | <b>PW-7</b> | 9.60 ft   |                      |
| PZ-3A       | 10.45 ft |                   | MPI-6S      | 10.19 ft  |                      |
| PZ-3B       | 10.48 ft |                   | PZ-7B       | 10.31 ft  |                      |
| PZ-3C       | 11.01 ft |                   | OW-B        | 10.24 ft  |                      |
| PZ-3D       | 10.50 ft |                   | PZ-7D       | + - 10 ft | Product in Well      |
| <b>PW-4</b> | 9.80 ft  |                   | <b>PW-8</b> | 6.30 ft   |                      |
| PZ-4A       | 10.31 ft |                   | PZ-8A       | 7.18 ft   |                      |
| PZ-4B       | 9.76 ft  |                   | PZ-8B       | 7.11 ft   |                      |
| PZ-4C       | ----- ft | Sealed Over       | PZ-8C       | 6.78 ft   |                      |
| PZ-4D       | 9.39 ft  |                   | PZ-8D       | 7.20 ft   |                      |

| OTHER WELLS |          |                                                                                       |          |          |              |        |          |  |
|-------------|----------|---------------------------------------------------------------------------------------|----------|----------|--------------|--------|----------|--|
| EE-1        | ? ft     | MPI-1S                                                                                | 9.68 ft  | MPI-7IR  | 10.17 ft     | ESI-3  | 10.20 ft |  |
| EE-2        | 10.90 ft | MPI-2SR                                                                               | 10.38 ft | MPI-8SR  | 9.07 ft      | ESI-6  | 9.81 ft  |  |
| EE-3        | 10.34 ft | MPI-3S                                                                                | 9.67 ft  | MPI-9SR  | 8.52 ft      | ESI-2R | 12.19 ft |  |
| EE-4        | 11.49 ft | MPI-4S                                                                                | 6.89 ft  | MPI-13BR | Auto over ft | ESI-5R | 7.65 ft  |  |
| MW-8        | 10.31 ft | MPI-4I                                                                                | 10.30 ft | MPI-14BR | 9.25 ft      |        |          |  |
| MW-11       | 8.91 ft  | MPI-5S                                                                                | 10.95 ft | MPI-15B  | 9.04 ft      |        |          |  |
|             |          |                                                                                       |          |          |              |        |          |  |
| COMMENTS:   |          | ESI-2R, EE-4: riser caps must be lowered some.                                        |          |          |              |        |          |  |
|             |          | MPI-5S: riser cap must be ground down. MPI-4S, MPI-4I: ground has heaved over risers. |          |          |              |        |          |  |

**MR. C's DRY CLEANERS SITE**  
**NYSDEC Site #9-15-157**  
**OM&M: PIEZOMETER WATER LEVEL LOG**

**Date:** 23-Feb-16

**Measurements taken by:** R. Allen

|             |          |                                        |             |          |                      |
|-------------|----------|----------------------------------------|-------------|----------|----------------------|
| <b>RW-1</b> | 10.80 ft |                                        | <b>PW-5</b> | 9.70 ft  |                      |
| PZ-1A       | 10.82 ft |                                        | PZ-5A       | 10.10 ft |                      |
| PZ-1B       | 10.57 ft |                                        | PZ-5B       | 10.14 ft |                      |
| PZ-1C       | ----- ft | Auto parked over                       | PZ-5C       | 9.75 ft  |                      |
| PZ-1D       | 11.85 ft |                                        | PZ-5D       | 10.42 ft |                      |
| <b>PW-2</b> | 10.40 ft |                                        | <b>PW-6</b> | 11.20 ft |                      |
| PZ-2A       | 10.34 ft |                                        | PZ-6A       | 11.07 ft |                      |
| PZ-2B       | 10.68 ft |                                        | PZ-6B       | 10.93 ft |                      |
| PZ-2C       | 10.20 ft |                                        | PZ-6C       | 11.22 ft |                      |
| MW-7        | ----- ft | Substitute for 2D;<br>Auto Parked Over | PZ-6D       | 10.98 ft | Shown as RW-2 on Map |
| <b>PW-3</b> | 10.90 ft |                                        | <b>PW-7</b> | 10.50 ft |                      |
| PZ-3A       | 10.84 ft |                                        | MPI-6S      | ----- ft | Under Snowpile       |
| PZ-3B       | 10.91 ft |                                        | PZ-7B       | 10.75 ft |                      |
| PZ-3C       | ----- ft | Under Snowpile                         | OW-B        | 10.65 ft |                      |
| PZ-3D       | ----- ft | Under Snowpile                         | PZ-7D       | ----- ft | Under Snowpile       |
| <b>PW-4</b> | 10.40 ft |                                        | <b>PW-8</b> | 11.10 ft |                      |
| PZ-4A       | 11.00 ft |                                        | PZ-8A       | 7.62 ft  |                      |
| PZ-4B       | 10.16 ft | Damaged                                | PZ-8B       | 7.55 ft  |                      |
| PZ-4C       | ----- ft | Sealed Over                            | PZ-8C       | 7.21 ft  |                      |
| PZ-4D       | 9.84 ft  |                                        | PZ-8D       | 7.56 ft  |                      |

| OTHER WELLS |          |         |          |          |    |        |          |
|-------------|----------|---------|----------|----------|----|--------|----------|
| EE-1        | ft       | MPI-1S  | ft       | MPI-7IR  | ft | ESI-3  | 10.58 ft |
| EE-2        | 11.59 ft | MPI-2SR | ft       | MPI-8SR  | ft | ESI-6  | ft       |
| EE-3        | ft       | MPI-3S  | ft       | MPI-9BR  | ft | ESI-2R | ft       |
| EE-4        | ft       | MPI-4S  | 8.56 ft  | MPI-13BR | ft | ESI-5R | ft       |
| MW-7        | ft       | MPI-4I  | 10.69 ft | MPI-14BR | ft |        |          |
| MW-8        | 10.73 ft | MPI-5S  | 11.37 ft | MPI-15B  | ft |        |          |
| MW-11       | 9.29 ft  | MPI-6S  | ft       |          |    |        |          |
| COMMENTS:   |          |         |          |          |    |        |          |
|             |          |         |          |          |    |        |          |

**MR. C's DRY CLEANERS SITE**  
**NYSDEC Site #9-15-157**  
**OM&M: PIEZOMETER WATER LEVEL LOG**

Date: 8-Feb-16

Measurements taken by: R. Allen

|       |                 |                                    |
|-------|-----------------|------------------------------------|
| RW-1  | <u>10.80</u> ft | Comments: <u></u>                  |
| PZ-1A | <u>10.83</u> ft | Comments: <u></u>                  |
| PZ-1B | <u>10.60</u> ft | Comments: <u></u>                  |
| PZ-1C | <u>11.75</u> ft | Comments: <u></u>                  |
| PZ-1D | <u>11.89</u> ft | Comments: <u></u>                  |
| PW-2  | <u>10.40</u> ft | Comments: <u></u>                  |
| PZ-2A | <u>10.38</u> ft | Comments: <u></u>                  |
| PZ-2B | <u>10.73</u> ft | Comments: <u></u>                  |
| PZ-2C | <u>10.22</u> ft | Comments: <u></u>                  |
| MW-7  | <u>10.74</u> ft | Comments: <u>Substitute for 2D</u> |
| PW-3  | <u>-----</u> ft | Comments: <u></u>                  |
| PZ-3A | <u>10.88</u> ft | Comments: <u></u>                  |
| PZ-3B | <u>10.96</u> ft | Comments: <u></u>                  |
| PZ-3C | <u>11.43</u> ft | Comments: <u></u>                  |
| PZ-3D | <u>10.97</u> ft | Comments: <u></u>                  |
| PW-4  | <u>10.40</u> ft | Comments: <u></u>                  |
| PZ-4A | <u>10.82</u> ft | Comments: <u></u>                  |
| PZ-4B | <u>10.23</u> ft | Comments: <u>Damaged</u>           |
| PZ-4C | <u>-----</u> ft | Comments: <u>sealed over</u>       |
| PZ-4D | <u>9.87</u> ft  | Comments: <u></u>                  |

|        |                 |                                       |
|--------|-----------------|---------------------------------------|
| PW-5   | <u>9.80</u> ft  | Comments: <u></u>                     |
| PZ-5A  | <u>10.43</u> ft | Comments: <u></u>                     |
| PZ-5B  | <u>10.21</u> ft | Comments: <u></u>                     |
| PZ-5C  | <u>9.82</u> ft  | Comments: <u></u>                     |
| PZ-5D  | <u>10.62</u> ft | Comments: <u></u>                     |
| PW-6   | <u>11.20</u> ft | Comments: <u></u>                     |
| PZ-6A  | <u>11.18</u> ft | Comments: <u></u>                     |
| PZ-6B  | <u>11.02</u> ft | Comments: <u></u>                     |
| PZ-6C  | <u>11.30</u> ft | Comments: <u></u>                     |
| PZ-6D  | <u>11.05</u> ft | Comments: <u>Shown as RW-2 on map</u> |
| PW-7   | <u>-----</u> ft | Comments: <u>Injection Operation</u>  |
| MPI-6S | <u>-----</u> ft | Comments: <u>Injection Operation</u>  |
| PZ-7B  | <u>10.84</u> ft | Comments: <u></u>                     |
| OW-B   | <u>10.74</u> ft | Comments: <u></u>                     |
| PZ-7D  | <u>-----</u> ft | Comments: <u>Injection Operation</u>  |
| PW-8   | <u>7.00</u> ft  | Comments: <u></u>                     |
| PZ-8A  | <u>7.70</u> ft  | Comments: <u></u>                     |
| PZ-8B  | <u>7.64</u> ft  | Comments: <u></u>                     |
| PZ-8C  | <u>7.38</u> ft  | Comments: <u></u>                     |
| PZ-8D  | <u>7.59</u> ft  | Comments: <u></u>                     |

**PUMPS IN OPERATION DURING MEASUREMENTS**

|               |            |          |    |
|---------------|------------|----------|----|
| RW-1 pump on? | <u>Yes</u> | <u>✓</u> | No |
| PW-2 pump on? | <u>Yes</u> | <u>✓</u> | No |
| PW-3 pump on? | <u>Yes</u> | <u>✓</u> | No |
| PW-4 pump on? | <u>Yes</u> | <u>✓</u> | No |

|               |            |          |    |
|---------------|------------|----------|----|
| PW-5 pump on? | <u>Yes</u> | <u>✓</u> | No |
| PW-6 pump on? | <u>Yes</u> | <u>✓</u> | No |
| PW-7 pump on? | <u>Yes</u> | <u></u>  | No |
| PW-8 pump on? | <u>Yes</u> | <u>✓</u> | No |

**MR. C's DRY CLEANERS SITE**  
**NYSDEC Site #9-15-157**  
**OM&M: PIEZOMETER WATER LEVEL LOG**

Date: 2-Feb-16

Measurements taken by: R. Allen

|       |                 |           |                   |
|-------|-----------------|-----------|-------------------|
| RW-1  | <u>17.50</u> ft | Comments: |                   |
| PZ-1A | <u>-----</u> ft | Comments: | Auto parked over  |
| PZ-1B | <u>10.79</u> ft | Comments: |                   |
| PZ-1C | <u>12.15</u> ft | Comments: |                   |
| PZ-1D | <u>12.32</u> ft | Comments: |                   |
| PW-2  | <u>14.50</u> ft | Comments: |                   |
| PZ-2A | <u>10.83</u> ft | Comments: |                   |
| PZ-2B | <u>11.14</u> ft | Comments: |                   |
| PZ-2C | <u>10.61</u> ft | Comments: |                   |
| MW-7  | <u>11.16</u> ft | Comments: | Substitute for 2D |
| PW-3  | <u>-----</u> ft | Comments: | Auto parked over  |
| PZ-3A | <u>11.29</u> ft | Comments: |                   |
| PZ-3B | <u>11.37</u> ft | Comments: |                   |
| PZ-3C | <u>11.91</u> ft | Comments: |                   |
| PZ-3D | <u>11.38</u> ft | Comments: |                   |
| PW-4  | <u>19.20</u> ft | Comments: |                   |
| PZ-4A | <u>10.97</u> ft | Comments: |                   |
| PZ-4B | <u>10.66</u> ft | Comments: |                   |
| PZ-4C | <u>-----</u> ft | Comments: | sealed over       |
| PZ-4D | <u>10.28</u> ft | Comments: |                   |

|        |                 |           |                      |
|--------|-----------------|-----------|----------------------|
| PW-5   | <u>16.10</u> ft | Comments: |                      |
| PZ-5A  | <u>10.53</u> ft | Comments: |                      |
| PZ-5B  | <u>10.61</u> ft | Comments: |                      |
| PZ-5C  | <u>10.20</u> ft | Comments: |                      |
| PZ-5D  | <u>11.00</u> ft | Comments: |                      |
| PW-6   | <u>15.80</u> ft | Comments: |                      |
| PZ-6A  | <u>11.54</u> ft | Comments: |                      |
| PZ-6B  | <u>11.41</u> ft | Comments: |                      |
| PZ-6C  | <u>11.64</u> ft | Comments: |                      |
| PZ-6D  | <u>11.38</u> ft | Comments: | Shown as RW-2 on map |
| PW-7   | <u>-----</u> ft | Comments: | injection operation  |
| MPI-6S | <u>-----</u> ft | Comments: | injection operation  |
| PZ-7B  | <u>11.17</u> ft | Comments: |                      |
| OW-B   | <u>11.08</u> ft | Comments: |                      |
| PZ-7D  | <u>-----</u> ft | Comments: | injection operation  |
| PW-8   | <u>19.80</u> ft | Comments: |                      |
| PZ-8A  | <u>8.11</u> ft  | Comments: |                      |
| PZ-8B  | <u>8.03</u> ft  | Comments: |                      |
| PZ-8C  | <u>7.69</u> ft  | Comments: |                      |
| PZ-8D  | <u>7.92</u> ft  | Comments: |                      |

**PUMPS IN OPERATION DURING MEASUREMENTS**

|               |                   |                  |
|---------------|-------------------|------------------|
| RW-1 pump on? | <u>      </u> Yes | <u>      </u> No |
| PW-2 pump on? | <u>      </u> Yes | <u>      </u> No |
| PW-3 pump on? | <u>      </u> Yes | <u>      </u> No |
| PW-4 pump on? | <u>      </u> Yes | <u>      </u> No |

|               |                   |                  |
|---------------|-------------------|------------------|
| PW-5 pump on? | <u>      </u> Yes | <u>      </u> No |
| PW-6 pump on? | <u>      </u> Yes | <u>      </u> No |
| PW-7 pump on? | <u>      </u> Yes | <u>      </u> No |
| PW-8 pump on? | <u>      </u> Yes | <u>      </u> No |

**ATTACHMENT C**  
**DATA USABILITY SUMMARY REPORTS**



|                                      |                                                                       |
|--------------------------------------|-----------------------------------------------------------------------|
| <b>Data Usability Summary Report</b> | <b>Project: Mr. C's Dry Cleaners Site Annual Groundwater Sampling</b> |
| <b>Date Completed: May 17, 2016</b>  | <b>Completed by: Joanna Christopher</b>                               |

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs

Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

| <b>Project ID</b> | <b>Lab Work Order</b> | <b>Laboratory</b>             |
|-------------------|-----------------------|-------------------------------|
| 10C3074.0011.04   | R0366                 | Eurofins: Spectrum Analytical |

| <b>Work Order</b> | <b>Matrix</b> | <b>Sample ID</b> | <b>Lab ID</b> | <b>Sample Date</b> | <b>Lab QC</b> | <b>MS/MSD</b> | <b>ID Corrections</b> |
|-------------------|---------------|------------------|---------------|--------------------|---------------|---------------|-----------------------|
| R0366             | WG            | EE-2-APR16       | R0366-17      | 4/27/2016 11:57    |               |               |                       |
| R0366             | WG            | EE-3-APR16       | R0366-27      | 4/29/2016 10:17    |               |               |                       |
| R0366             | WG            | ESI-2R-MAY16     | R0366-36      | 5/2/2016 15:40     |               |               | ESI-2-R-MAY16         |
| R0366             | WG            | ESI-3-APR16      | R0366-14      | 4/26/2016 13:27    |               |               |                       |
| R0366             | WG            | ESI-5R-APR16     | R0366-16      | 4/27/2016 10:12    |               |               | ESI-5-R-APR16         |
| R0366             | WG            | ESI-6-APR16      | R0366-31      | 4/29/2016 14:52    |               |               |                       |
| R0366             | WG            | MPI-13BR-MAY16   | R0366-32      | 5/2/2016 10:57     |               |               | MPI-13B-R-MAY16       |
| R0366             | WG            | MPI-14BR-MAY16   | R0366-33      | 5/2/2016 12:37     |               |               | MPI-14B-R-MAY16       |
| R0366             | WG            | MPI-15B-MAY16    | R0366-34      | 5/2/2016 14:37     |               |               |                       |
| R0366             | WG            | MPI-1S-APR16     | R0366-29      | 4/29/2016 12:00    |               |               |                       |
| R0366             | WG            | MPI-2SR-APR16    | R0366-30      | 4/29/2016 13:17    |               |               | MPI-2S-R-APR16        |
| R0366             | WG            | MPI-3S-APR16     | R0366-28      | 4/29/2016 11:07    |               |               |                       |
| R0366             | WG            | MPI-4I-APR16     | R0366-21      | 4/28/2016 11:12    |               |               |                       |
| R0366             | WG            | MPI-4S-APR16     | R0366-22      | 4/28/2016 11:22    |               |               |                       |
| R0366             | WG            | MPI-4S-APR16-Q   | R0366-23      | 4/28/2016 11:22    |               |               |                       |
| R0366             | WG            | MPI-5S-APR16     | R0366-03      | 4/25/2016 14:35    |               |               |                       |
| R0366             | WG            | MPI-6S-APR16     | R0366-20      | 4/28/2016 10:00    |               |               |                       |
| R0366             | WG            | MPI-7IR-APR16    | R0366-04      | 4/25/2016 15:58    |               |               | MPI-7I-R-APR16        |
| R0366             | WG            | MPI-8SR-APR16    | R0366-25      | 4/28/2016 13:59    |               | MS/MSD        | MPI-8S-R-APR16        |
| R0366             | WG            | MPI-9SR-APR16    | R0366-26      | 4/28/2016 15:10    |               |               | MPI-9S-R-APR16        |
| R0366             | WG            | MW-11-APR16      | R0366-15      | 4/26/2016 14:40    |               | MS/MSD        |                       |
| R0366             | WG            | MW-7-APR16       | R0366-08      | 4/26/2016 10:25    |               |               |                       |
| R0366             | WG            | MW-8-APR16       | R0366-02      | 4/25/2016 12:53    |               |               |                       |
| R0366             | WG            | PW-2-APR16       | R0366-05      | 4/26/2016 9:57     |               |               |                       |
| R0366             | WG            | PW-3-APR16       | R0366-06      | 4/26/2016 10:05    |               |               |                       |
| R0366             | WG            | PW-4-APR16       | R0366-09      | 4/26/2016 10:22    |               |               |                       |
| R0366             | WG            | PW-5-APR16       | R0366-07      | 4/26/2016 10:14    |               |               |                       |

|                                      |                                                                       |
|--------------------------------------|-----------------------------------------------------------------------|
| <b>Data Usability Summary Report</b> | <b>Project: Mr. C's Dry Cleaners Site Annual Groundwater Sampling</b> |
| <b>Date Completed: May 17, 2016</b>  | <b>Completed by: Joanna Christopher</b>                               |

| Work Order | Matrix | Sample ID     | Lab ID   | Sample Date     | Lab QC | MS/MSD | ID Corrections |
|------------|--------|---------------|----------|-----------------|--------|--------|----------------|
| R0366      | WG     | PW-6-APR16    | R0366-11 | 4/26/2016 10:41 |        |        |                |
| R0366      | WG     | PW-8-APR16    | R0366-10 | 4/26/2016 10:34 |        |        |                |
| R0366      | WG     | PZ-3B-APR16   | R0366-12 | 4/26/2016 11:25 |        |        |                |
| R0366      | WG     | PZ-3B-APR16-Q | R0366-13 | 4/26/2016 11:25 |        |        |                |
| R0366      | WG     | PZ-5A-APR16   | R0366-24 | 4/28/2016 13:00 |        |        |                |
| R0366      | WQ     | PZ-6A-APR16   | R0366-18 | 4/27/2016 14:10 |        |        |                |
| R0366      | WQ     | PZ-8C-APR16   | R0366-19 | 4/27/2016 15:12 |        |        |                |
| R0366      | WG     | TB-20160425   | R0366-01 | 4/25/2016 10:15 |        |        |                |
| R0366      | WG     | TB-20160502   | R0366-35 | 5/2/2016 13:50  |        |        |                |

| Work Orders | Matrix | Test Method | Method Name       | Number of Samples | Sample Type |
|-------------|--------|-------------|-------------------|-------------------|-------------|
| R0366       | WG     | SW8260C     | Volatile Organics | 34                | N/FD        |
| R0366       | WQ     | SW8260C     | Volatile Organics | 2                 | TB          |

| General Sample Information                                                                                                                                                  |                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Do Samples and Analyses on COC check against Lab Sample Tracking Form?                                                                                                      | Yes.<br>Several name corrections were made as noted in the ID Corrections column of Table 1 due to incorrect well names used on COC and to maintain consistent nomenclature across sampling events.                                               |
| Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?                                                              | No.<br>The coolers associated with SDG R0366 were received at 6.2 and 6.5 °C. The laboratory notified the project manager, and were instructed to proceed with the analyses. There is no impact to data usability based on professional judgment. |
| Frequency of Field QC Samples Correct?<br>Field Duplicate - 1/20 samples<br>Trip Blank - Every cooler with VOCs waters only<br>Equipment Blank - 1/ set of samples per day? | No.<br>2 field duplicates per 32 samples<br>2 MS/MSDs per 32 samples<br>1 trip blank/cooler<br>Equipment rinsate blanks were not collected.                                                                                                       |
| Case narrative present and complete?                                                                                                                                        | Yes.                                                                                                                                                                                                                                              |
| Any holding time violations (See table below)?                                                                                                                              | Yes. Sample MW-7-APR16 was analyzed 1 day outside holding time due to a laboratory error. Detected compounds were qualified with J as estimated. Non-detected compounds were qualified with UR as rejected nondetect.                             |

| Work Order | Method  | Sample ID  | Sample Date   | Matrix | Sample Type | Anal HT | Analysis Date | Sample Qual |
|------------|---------|------------|---------------|--------|-------------|---------|---------------|-------------|
| R0366      | SW8260C | MW-7-APR16 | 4/26/16 10:25 | WG     | N           | 14 days | 5/11/16 15:12 | J/UR        |

|                                      |                                                                       |
|--------------------------------------|-----------------------------------------------------------------------|
| <b>Data Usability Summary Report</b> | <b>Project: Mr. C's Dry Cleaners Site Annual Groundwater Sampling</b> |
| <b>Date Completed: May 17, 2016</b>  | <b>Completed by: Joanna Christopher</b>                               |

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD Outside Limits (Table 4)
- LCS Outside Limits (Table 5)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to [Tables](#) List

| <b>Volatile Organics by GC/MS</b>                                                                                                                                   |                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>                                                                                                                                                  | <b>Notes and Qualifiers</b>                                                                                                                                                                                                          |
| Any compounds present in method, trip, or, field blanks (see Table 2)?                                                                                              | No.                                                                                                                                                                                                                                  |
| For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs. | No qualification required.                                                                                                                                                                                                           |
| Are surrogates for method blanks and LCS within limits?                                                                                                             | Yes.                                                                                                                                                                                                                                 |
| Are surrogates for samples and MS/MSD within limits? (See Table 3). If not, were all samples reanalyzed for VOCs?                                                   | No. Recovery for dibromofluoromethane was above laboratory QC limits for sample PW-2-APR16 (for analyses where DF=1 only). Detected compounds were qualified with J as estimated and nondetects were reported without qualification. |
| Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?                                                         | Yes.                                                                                                                                                                                                                                 |
| Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.                              | No. Tetrachloroethene recovery was below QC limits; however, the sample concentration was more than 4 times the spike concentration; therefore, the results were reported without qualification.                                     |
| Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.                          | Yes.                                                                                                                                                                                                                                 |
| Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?                                      | Yes.                                                                                                                                                                                                                                 |
| Is initial calibration for target compounds <20% RSD or curve fit?                                                                                                  | Yes.                                                                                                                                                                                                                                 |
| Is continuing calibration for target compounds < 20.5% D.                                                                                                           | Yes.                                                                                                                                                                                                                                 |

|                                      |                                                                       |
|--------------------------------------|-----------------------------------------------------------------------|
| <b>Data Usability Summary Report</b> | <b>Project: Mr. C's Dry Cleaners Site Annual Groundwater Sampling</b> |
| <b>Date Completed: May 17, 2016</b>  | <b>Completed by: Joanna Christopher</b>                               |

| <b>Volatile Organics by GC/MS</b>                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>                                                                                                                   | <b>Notes and Qualifiers</b>                                                                                                                                                                                                                                                                                                                                                                   |
| Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged? | Yes. See Table 6<br>Several samples were analyzed at dilutions to bring target analytes within the calibration curve. Generally only the exceeding analyte was reported from the dilution; however, the following samples were reported with elevated reporting limits: EE-2-APR16, ESI-6-APR16, MPI-4I-APR16, MW-11-APR16, MW-7-APR16, PW-2-APR16, PW-5-APR16, PZ-5A-APR16, and PZ-6A-APR16. |
| For TICs are there any system related compounds that should not be reported?                                                         | N/A                                                                                                                                                                                                                                                                                                                                                                                           |
| Do field duplicate results show good precision for all compounds (see Table 7)?                                                      | Yes.                                                                                                                                                                                                                                                                                                                                                                                          |

| <b>Summary of Potential Impacts on Data Usability</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Sample MW-7-APR16 was analyzed outside holding time resulting in detected compounds qualified with J as estimated and non-detected compounds qualified with UR as rejected nondetect.</li> <li>• Surrogate recovery was above laboratory QC limits for sample PW-2-APR16 resulting in detected compounds qualified with J as estimated.</li> <li>• The following samples were diluted and reported with elevated reporting limits for all analytes: EE-2-APR16, ESI-6-APR16, MW-7-APR16, PW-5-APR16, PZ-5A-APR16, and PZ-6A-APR16. There are instances where the elevated reporting limit exceeds the screening level; therefore, analyte concentrations may exceed the screening limit.</li> <li>• Rinsate blanks were not collected from non-dedicated equipment.</li> </ul> |

|                                      |                                                                       |
|--------------------------------------|-----------------------------------------------------------------------|
| <b>Data Usability Summary Report</b> | <b>Project: Mr. C's Dry Cleaners Site Annual Groundwater Sampling</b> |
| <b>Date Completed: May 17, 2016</b>  | <b>Completed by: Joanna Christopher</b>                               |

**Table 2 - List of Positive Results for Blank Samples**

None

**Table 2A - List of Samples Qualified for Method Blank Contamination**

None

**Table 2B - List of Samples Qualified for Field Blank Contamination**

None

**Table 3 - List of Samples with Surrogates outside Control Limits**

| Method  | Sample ID  | Sample Type | Analyte              | Rec. % | Low Limit | High Limit | Dilution Factor | Sample Qualifier |
|---------|------------|-------------|----------------------|--------|-----------|------------|-----------------|------------------|
| SW8260C | PW-2-APR16 | SAMP        | Dibromofluoromethane | 117    | 85        | 115        | 1               | J/None           |

**Table 4 – List of MS/MSD Recoveries and RPDs outside Control Limits**

| Method  | Sample ID   | Sample Type | Analyte                   | Orig. Result | Spike Amount | Rec. | Dil. Fac. | Low Limit | High Limit | Sample Qualifier |
|---------|-------------|-------------|---------------------------|--------------|--------------|------|-----------|-----------|------------|------------------|
| SW8260C | R0366-15MS  | MS          | Tetrachloroethylene (PCE) | 1500         | 50.000       | -184 | 1         | 45        | 150        | None – 4X        |
| SW8260C | R0366-15MSD | MSD         | Tetrachloroethylene (PCE) | 1500         | 50.000       | -213 | 1         | 45        | 150        | None – 4X        |

**Table 5 - List of LCS Recoveries outside Control Limits**

None.

**Table 6 –Samples that were Re-analyzed**

| Sample ID    | Lab ID     | Method | Sample Type | Action                                                                                                                                                                    |
|--------------|------------|--------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EE-2-APR16   | R0366-17   | SW8260 | GW          | 4X– Sample diluted to bring target analytes within the calibration curve. Elevated reporting limits provided.                                                             |
| ESI-6-APR16  | R0366-31   | SW8260 | GW          | 2.5X– Sample diluted to bring target analytes within the calibration curve. Elevated reporting limits provided.                                                           |
| MPI-4I-APR16 | R0366-21DL | SW8260 | GW          | 4X– Sample diluted to bring Cis-1,2-Dichloroethylene and Tert-Butyl Methyl Ether within the calibration curve. Only the exceeding analytes were reported at the dilution. |
| MW-11-APR16  | R0366-15DL | SW8260 | GW          | 10X– Sample diluted to bring PCE within the calibration curve. Only the exceeding analyte was reported at the dilution.                                                   |

|                                      |                                                                       |
|--------------------------------------|-----------------------------------------------------------------------|
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| Sample ID   | Lab ID     | Method | Sample Type | Action                                                                                                                 |
|-------------|------------|--------|-------------|------------------------------------------------------------------------------------------------------------------------|
| MW-7-APR16  | R0366-08   | SW8260 | GW          | 10X– Sample diluted to bring target analytes within the calibration curve. Elevated reporting limits provided.         |
| PW-2-APR16  | R0366-05DL | SW8260 | GW          | 2X– Sample diluted to bring PCE within the calibration curve. Only the exceeding analyte was reported at the dilution. |
| PW-5-APR16  | R0366-07   | SW8260 | GW          | 5X– Sample diluted to bring target analytes within the calibration curve. Elevated reporting limits provided.          |
| PZ-5A-APR16 | R0366-24   | SW8260 | GW          | 40X– Sample diluted to bring target analytes within the calibration curve. Elevated reporting limits provided.         |
| PZ-6A-APR16 | R0366-18   | SW8260 | GW          | 10X– Sample diluted to bring target analytes within the calibration curve. Elevated reporting limits provided.         |

**Table 7 – Summary of Field Duplicate Results**

| Method | Analyte                   | Unit | Matrix | PQL | Anal Type | MPI-4S-APR16 | MPI-4S-APR16-Q | RPD   | RPD Rating | Sample Qual |
|--------|---------------------------|------|--------|-----|-----------|--------------|----------------|-------|------------|-------------|
| SW8260 | Cis-1,2-Dichloroethylene  | ug/l | WG     | 5.0 | TRG       | 11           | 11             | 0.0%  | Good       | None        |
| SW8260 | Tetrachloroethylene (PCE) | ug/l | WG     | 5.0 | TRG       | 4.9          | 4.2            | 15.4% | Good       | None        |
| SW8260 | Vinyl Chloride            | ug/l | WG     | 5.0 | TRG       | 1.7          | 1.5            | 12.5% | Good       | None        |

| Method | Analyte                   | Unit | Matrix | PQL | Anal Type | MPI-4S-APR16 | MPI-4S-APR16-Q | RPD   | RPD Rating | Sample Qual |
|--------|---------------------------|------|--------|-----|-----------|--------------|----------------|-------|------------|-------------|
| SW8260 | Cis-1,2-Dichloroethylene  | ug/l | WG     | 5.0 | TRG       | 0.87         | ND             | NC    | --         | None <PQL   |
| SW8260 | Tetrachloroethylene (PCE) | ug/l | WG     | 5.0 | TRG       | 140          | 130            | 7.4%  | Good       | None        |
| SW8260 | Trichloroethylene (TCE)   | ug/l | WG     | 5.0 | TRG       | 6.3          | 5.4            | 15.4% | Good       | None        |

|                                      |                                                                       |
|--------------------------------------|-----------------------------------------------------------------------|
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**Acronym List and Table Key:**

|             |   |                                                         |
|-------------|---|---------------------------------------------------------|
| Cis-1,2-DCE | = | Cis-1,2-dichloroethene                                  |
| CCV         | = | continuing calibration verification                     |
| COC         | = | chain of custody                                        |
| DUSR        | = | data usability summary report                           |
| GC/MS       | = | gas chromatography / mass spectrometry                  |
| LCS         | = | laboratory control sample                               |
| MBLK        | = | method blank                                            |
| MS          | = | matrix spike                                            |
| MSD         | = | matrix spike duplicate                                  |
| NYSDEC      | = | New York State Department of Environmental Conservation |
| PCE         | = | tetrachloroethene                                       |
| PQL         | = | practical quantitation limit                            |
| QA          | = | quality assurance                                       |
| QAPP        | = | quality assurance project plan                          |
| QC          | = | quality control                                         |
| RPD         | = | relative percent difference                             |
| SDG         | = | sample delivery group                                   |
| TCE         | = | trichloroethene                                         |
| TIC         | = | tentatively identified compound                         |
| VOC         | = | volatile organic compound                               |