



## ecology and environment engineering, p.c.

Global Environmental Specialists

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December 21, 2015

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, 2015 Long-term Groundwater Monitoring Results

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEP) is pleased to provide the 2015 Long-term Groundwater Monitoring Results Report for the Mr. C's Dry Cleaners Site. 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 of the 2015 Long-term Groundwater Monitoring event will be presented in the 2015 Periodic Review Report (PRR). This letter report presents a summary of the analytical results, pertinent field information, and validation of the analytical results.

Groundwater monitoring around the Mr. C's site has been performed under EEEPC's Standby Contract since 2003. 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). The SMP for the site requires monitoring the extent of the PCE and total VOC plume that resulted from previous dry cleaning operations at the Mr. C's Dry Cleaners site.

Fieldwork was performed by EEEPC personnel from October 21 through 30, 2015. A total of 28 wells and four piezometers were sampled during the 2015 long-term groundwater monitoring event. Duplicate samples for analytical quality control were taken from monitoring wells MPI-6S and MW-7.

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

All sampled monitoring wells and piezometers were purged prior to sampling in accordance with Appendix I of the SMP, which requires that all wells are pumped using one of two methods: low-flow purging and sampling or standard purging and sampling. The bioremediation performance monitoring wells and piezometers were sampled using the low-flow sampling method, while all other wells were sampled using standard purging and sampling method.

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.

All of 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 (ORP) 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 quarto 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 (NTUs) or less. Purge records will be provided in the 2015 PRR. The individual well purge and sampling field records are presented in Attachment A.

The samples collected as part of the long-term 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 will be provided in electronic form through EQUIS, and a copy of the laboratory reports will be provided in the 2015 PRR.

### **Groundwater Monitoring Results**

Figures 1 and 2 summarize historical VOC concentrations detected across the site. Figures 3 and 4 summarize PCE and total chlorinated 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 represent PCE and the total of all the other VOCs within the plume. These other VOCs include: trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), trans-1,2-dichloroethene (trans-DCE), 1,1-dichloroethene, and vinyl chloride. Figure 5 is a groundwater contour map developed from the depth to water level measurements at the time of sampling.

Table 1 provides the sample analytical results for the groundwater from each monitoring well. Bold values shown in the table denote positive analytical results. Highlighted boxes in the table denote either values that exceed NYSDEC groundwater standards or exceed groundwater guidance values.

The groundwater monitoring results are summarized below.

- Seven VOCs (1,2-dichloroethane, PCE, TCE, cis-DCE, trans-DCE, vinyl chloride, and methyl-tert-butyl [MTBE]) were detected in the 2015 groundwater samples at levels that exceed their NYSDEC Class GA groundwater standards and the guidance values<sup>1</sup> used to screen the groundwater data.
- Six VOCs (1,1,1-trichloroethane, 1,1-dichloroethane, acetone, carbon disulfide, and chloroform) were detected in the 2015 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 16 wells and three piezometer samples across the site. The highest concentration of PCE (2,300  $\mu\text{g/L}$ , estimated) was detected in a sample collected from pumping well PW-5. 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.
- TCE was detected above the groundwater standard (5 $\mu\text{g/L}$ ) in ten wells and three piezometer sampled across the site. The highest concentration of TCE, 190  $\mu\text{g/L}$ , was detected in a sample collected from piezometer PZ-6A.
- cis-DCE was detected above the groundwater standard (5  $\mu\text{g/L}$ ) in 14 wells and three piezometers sampled across the site. The highest concentration of cis-DCE, 720  $\mu\text{g/L}$ , was detected in a sample collected from monitoring well MPI-4I.
- trans-DCE was detected above the groundwater standard (5  $\mu\text{g/L}$ ) in one well and one piezometer. The highest concentration of trans-DCE, 16  $\mu\text{g/L}$ , was detected in a sample collected from monitoring well MW-8.
- Vinyl chloride was detected above its groundwater standard (2  $\mu\text{g/L}$ ) in eight wells and one piezometer. Vinyl chloride increased in concentration across the site since 2013. The highest concentration of vinyl chloride (180  $\mu\text{g/L}$ ) was detected in a sample collected from monitoring well MPI-64I.
- MTBE was detected in wells EE-2 (19  $\mu\text{g/L}$ ), EE-3 (22  $\mu\text{g/L}$ ), MPI-15B (1.1  $\mu\text{g/L}$ ), MPI-3S (35  $\mu\text{g/L}$ ), MPI-4I (310  $\mu\text{g/L}$ ), MPI-4S (1.3  $\mu\text{g/L}$ ), PW-4 (8.5  $\mu\text{g/L}$ ), PW-6 (1.4  $\mu\text{g/L}$ ), and PW-8 (2.7  $\mu\text{g/L}$ ). MTBE concentrations have not spread or changed much since 2013. It was also detected in piezometers PZ-6A (6.8 $\mu\text{g/L}$ ) and PZ-8C (26  $\mu\text{g/L}$ ). The guidance value for MTBE is 10  $\mu\text{g/L}$ .

### Quality Control/ Quality Assurance and Data Review

The analytical data were independently validated by EEEPC using project requirements in the SMP Quality Assurance Plan (Appendix K of the SMP, February 2015). Any deviations from acceptable QC specifications are discussed in the data usability summary reports (DUSRs) in Attachment B. Field duplicates and matrix spike/matrix spike duplicates (MS/MSDs) were collected for QA/QC purposes. Several results were qualified and one QA/QC issue was noted:

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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.


- The following samples were diluted and reported with elevated reporting limits for all analytes: ESI-6-OCT15, PZ-5B-OCT15, MW-7-OCT15, and MW-7-OCT15-Q. There are instances where the elevated reporting limit exceeds the screening level; therefore, analyte concentrations may exceed the screening limit.
- Cis-1,2-dichloroethene and vinyl chloride were qualified “J” (estimated) because precision in the field duplicate of MPI-6S-OCT15 was poor.
- Acetone also was qualified “J” (estimated) in MPI-6S-OCT15 and MPI-6S-OCT15-Q because of elevated recovery in the associated laboratory control samples (LCSs).
- Rinseate blanks were not collected from non-dedicated equipment.

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

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

Sincerely,

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.



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	Screening Criteria <sup>(1)</sup>	Notes	Location ID:	EE-2	EE-3	ESI-2-R	ESI-3	ESI-5-R	ESI-6
			Sample Name:	EE-2-OCT15	EE-3-OCT15	ESI-2-R-OCT15	ESI-3-OCT15	ESI-5-R-OCT15	ESI-6-OCT15
			Depth:	22 - 32 ft	18 - 28 ft	9 - 19 ft	7 - 17 ft	5 - 15 ft	7 - 17 ft
			Date:	10/26/15	10/23/15	10/26/15	10/28/15	10/26/15	10/23/15
<b>Volatile Organics by Method SW8260C (µg/L)</b>									
1,1,1-Trichloroethane	5			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.5 U
1,1-Dichloroethane	5			<b>0.82 J</b>	0.25 U	0.25 U	<b>0.98 J</b>	0.25 U	1.3 U
1,1-Dichloroethene	5			<b>0.80 J</b>	0.39 U	0.39 U	0.39 U	0.39 U	2.0 U
1,2-Dichloroethane	0.6			0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	2.1 U
Acetone	50	G		2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	11 U
Carbon Disulfide	60	G		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.7 U
Chloroform	7			0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Cis-1,2-Dichloroethylene	5			<b>230</b>	<b>15</b>	0.48 U	0.48 U	0.48 U	<b>32</b>
Methyl-Tert-Butyl Ether	10	G		<b>19</b>	<b>22</b>	0.24 U	0.24 U	0.24 U	1.2 U
Tetrachloroethylene (PCE)	5			<b>97</b>	<b>1.3 J</b>	0.65 U	<b>140</b>	0.65 U	<b>320</b>
Trans-1,2-Dichloroethene	5			<b>1.6 J</b>	0.65 U	0.65 U	0.65 U	0.65 U	3.3 U
Trichloroethylene (TCE)	5			<b>140</b>	0.36 U	0.36 U	0.36 U	0.36 U	<b>21 J</b>
Vinyl Chloride	2			<b>4.7 J</b>	0.50 U	0.50 U	0.50 U	0.50 U	2.5 U

**Key:**

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

UJ = Not detected/estimated detection limit

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	Screening Criteria <sup>(1)</sup>	Notes	Location ID:	MPI-13B-R	MPI-14B-R	MPI-15B	MPI-1S	MPI-2S-R	MPI-3S
			Sample Name:	OCT15	OCT15	MPI-15B-OCT15	MPI-1S-OCT15	MPI-2S-R-OCT15	MPI-3S-OCT15
			Depth:	17 - 32 ft	15 - 30 ft	0 - 0 ft	9 - 19 ft	8 - 18 ft	8 - 18 ft
			Date:	10/22/15	10/22/15	10/27/15	10/23/15	10/26/15	10/23/15
<b>Volatile Organics by Method SW8260C (µg/L)</b>									
1,1,1-Trichloroethane	5			0.50 U	0.50 U	0.50 U	0.50 U	<b>3.0 J</b>	0.50 U
1,1-Dichloroethane	5			0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	5			0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1,2-Dichloroethane	0.6			0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	<b>2.2 J</b>
Acetone	50	G		2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Carbon Disulfide	60	G		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Chloroform	7			0.33 U	0.33 U	0.33 U	0.33 U	<b>4.4 J</b>	0.33 U
Cis-1,2-Dichloroethylene	5			0.48 U	0.48 U	0.48 U	<b>3.1 J</b>	0.48 U	0.48 U
Methyl-Tert-Butyl Ether	10	G		0.24 U	0.24 U	<b>1.1 J</b>	0.24 U	0.24 U	<b>35</b>
Tetrachloroethylene (PCE)	5			<b>6.7</b>	<b>2.3 J</b>	0.65 U	<b>45</b>	<b>1.9 J</b>	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
Trichloroethylene (TCE)	5			0.36 U	0.36 U	0.36 U	<b>2.3 J</b>	0.36 U	0.36 U
Vinyl Chloride	2			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

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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	Screening Criteria <sup>(1)</sup>	Notes	Location ID:	MPI-4I	MPI-4S	MPI-5S	MPI-6S	MPI-6S	MPI-7I-R
			Sample Name:	MPI-4I-OCT15	MPI-4S-OCT15	MPI-5S-OCT15	MPI-6S-OCT15	MPI-6S-OCT15-Q	MPI-7I-R-OCT15
			Depth:	32 - 42 ft	11 - 21 ft	8 - 18 ft	12 - 22 ft	12 - 22 ft	29 - 39 ft
			Date:	10/26/15	10/27/15	10/21/15	10/27/15	10/27/15	10/28/15
<b>Volatile Organics by Method SW8260C (µg/L)</b>									
1,1,1-Trichloroethane	5			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	5			0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	5			0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1,2-Dichloroethane	0.6			0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Acetone	50	G		2.2 U	2.2 U	2.2 U	<b>12 J</b>	<b>8.4 J</b>	2.2 U
Carbon Disulfide	60	G		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Chloroform	7			0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Cis-1,2-Dichloroethylene	5			<b>720</b>	<b>41</b>	<b>8.4</b>	<b>18 J</b>	<b>35 J</b>	0.48 U
Methyl-Tert-Butyl Ether	10	G		<b>310</b>	<b>1.3 J</b>	0.24 U	0.24 U	0.24 U	0.24 U
Tetrachloroethylene (PCE)	5			<b>71</b>	<b>4.4 J</b>	<b>30</b>	0.65 U	0.65 U	<b>1.2 J</b>
Trans-1,2-Dichloroethene	5			<b>1.6 J</b>	0.65 U	<b>4.4 J</b>	0.65 U	<b>1.0 J</b>	0.65 U
Trichloroethylene (TCE)	5			<b>31</b>	<b>1.6 J</b>	<b>5.7</b>	0.36 U	0.36 U	0.36 U
Vinyl Chloride	2			<b>180</b>	<b>6.4</b>	<b>1.5 J</b>	<b>14 J</b>	<b>35 J</b>	0.50 U

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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	Screening Criteria <sup>(1)</sup>	Notes	Location ID:	MPI-8S-R	MPI-9S-R	MW-11	MW-7	MW-7	MW-8
			Sample Name:	MPI-8S-R-OCT15	MPI-9S-R-OCT15	MW-11-OCT15	MW-7-OCT15	MW-7-OCT15-Q	MW-8-OCT15
			Depth:	8 - 18 ft	8 - 18 ft	10 - 20 ft	5 - 15 ft	5 - 15 ft	5 - 15 ft
			Date:	10/21/15	10/22/15	10/28/15	10/22/15	10/22/15	10/21/15
<b>Volatile Organics by Method SW8260C (µg/L)</b>									
1,1,1-Trichloroethane	5			0.50 U	0.50 U	0.50 U	5.0 U	5.0 U	0.50 U
1,1-Dichloroethane	5			0.25 U	0.25 U	0.25 U	2.5 U	2.5 U	0.25 U
1,1-Dichloroethene	5			0.39 U	0.39 U	0.39 U	3.9 U	3.9 U	0.39 U
1,2-Dichloroethane	0.6			0.41 U	0.41 U	0.41 U	4.1 U	4.1 U	0.41 U
Acetone	50	G		2.2 U	2.2 U	2.2 U	22 U	22 U	2.2 U
Carbon Disulfide	60	G		0.34 U	0.34 U	<b>1.9 J</b>	3.4 U	3.4 U	0.34 U
Chloroform	7			0.33 U	0.33 U	0.33 U	3.3 U	3.3 U	0.33 U
Cis-1,2-Dichloroethylene	5			<b>71</b>	0.48 U	0.48 U	4.8 U	4.8 U	<b>12</b>
Methyl-Tert-Butyl Ether	10	G		0.24 U	0.24 U	0.24 U	2.4 U	2.4 U	0.24 U
Tetrachloroethylene (PCE)	5			<b>150</b>	<b>1.2 J</b>	<b>1400</b>	<b>840</b>	<b>860</b>	0.65 U
Trans-1,2-Dichloroethene	5			<b>1.6 J</b>	0.65 U	0.65 U	6.5 U	6.5 U	<b>16</b>
Trichloroethylene (TCE)	5			<b>17</b>	0.36 U	<b>4.8 J</b>	3.6 U	3.6 U	0.36 U
Vinyl Chloride	2			0.50 U	0.50 U	0.50 U	5.0 U	5.0 U	<b>7.4</b>

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"-Q" denotes field duplicate sample

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2. Bold values denote positive hits.

3. Shaded cell exceeds groundwater standard.

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Mr. C's Dry Cleaners Site, East Aurora, New York**

Analyte	Screening Criteria <sup>(1)</sup>	Notes	Location ID:	PW-2	PW-3	PW-4	PW-5	PW-6	PW-8
			Sample Name:	PW-2-OCT15	PW-3-OCT15	PW-4-OCT15	PW-5-OCT15	PW-6-OCT15	PW-8-OCT15
			Depth:	18 - 28 ft	18 - 28 ft	18 - 28 ft	18 - 28 ft	18 - 28 ft	18 - 28 ft
			Date:	10/28/15	10/28/15	10/28/15	10/28/15	10/28/15	10/28/15
<b>Volatile Organics by Method SW8260C (µg/L)</b>									
1,1,1-Trichloroethane	5			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	5			0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	5			0.39 U	0.39 U	0.39 U	0.39 U	<b>1.8 J</b>	0.39 U
1,2-Dichloroethane	0.6			0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Acetone	50	G		2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Carbon Disulfide	60	G		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Chloroform	7			0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Cis-1,2-Dichloroethylene	5			0.48 U	0.48 U	<b>81</b>	<b>99</b>	<b>61 J</b>	<b>150</b>
Methyl-Tert-Butyl Ether	10	G		0.24 U	0.24 U	<b>8.5</b>	0.24 U	<b>1.4 J</b>	<b>2.7 J</b>
Tetrachloroethylene (PCE)	5			<b>380</b>	<b>100</b>	<b>2000</b>	<b>2300</b>	<b>2000</b>	<b>170</b>
Trans-1,2-Dichloroethene	5			0.65 U	0.65 U	<b>1.4 J</b>	<b>3.5 J</b>	<b>0.84 J</b>	0.65 U
Trichloroethylene (TCE)	5			<b>1.8 J</b>	<b>2.1 J</b>	<b>110</b>	<b>31</b>	<b>130 J</b>	<b>8.4</b>
Vinyl Chloride	2			0.50 U	0.50 U	0.50 U	<b>8.8</b>	0.50 U	<b>8.9</b>

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2. Bold values denote positive hits.

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Mr. C's Dry Cleaners Site, East Aurora, New York**

Analyte	Screening Criteria <sup>(1)</sup>	Notes	Location ID:	PZ-3B	PZ-5B	PZ-6A	PZ-8C
			Sample Name:	PZ-3B-OCT15	PZ-5B-OCT15	PZ-6A-OCT15	PZ-8C-OCT15
			Depth:	18 - 28 ft	18 - 28 ft	18 - 28 ft	18 - 28 ft
			Date:	10/22/15	10/21/15	10/27/15	10/27/15
<b>Volatile Organics by Method SW8260C (µg/L)</b>							
1,1,1-Trichloroethane	5			0.50 U	10 U	0.50 U	0.50 U
1,1-Dichloroethane	5			0.25 U	5.0 U	0.25 U	0.25 U
1,1-Dichloroethene	5			0.39 U	7.8 U	<b>4.2 J</b>	0.39 U
1,2-Dichloroethane	0.6			0.41 U	8.2 U	0.41 U	0.41 U
Acetone	50	G		2.2 U	44 U	2.2 U	2.2 U
Carbon Disulfide	60	G		0.34 U	6.8 U	<b>2.1 J</b>	<b>3.0 J</b>
Chloroform	7			0.33 U	6.6 U	0.33 U	0.33 U
Cis-1,2-Dichloroethylene	5			<b>1.2 J</b>	<b>14 J</b>	<b>410</b>	<b>56</b>
Methyl-Tert-Butyl Ether	10	G		0.24 U	4.8 U	<b>6.8</b>	<b>26</b>
Tetrachloroethylene (PCE)	5			<b>150</b>	<b>3000</b>	<b>670</b>	0.65 U
Trans-1,2-Dichloroethene	5			0.65 U	<b>20 J</b>	<b>3.0 J</b>	<b>1.1 J</b>
Trichloroethylene (TCE)	5			<b>8.4</b>	<b>70 J</b>	<b>190</b>	0.36 U
Vinyl Chloride	2			0.50 U	10 U	<b>0.85 J</b>	<b>110</b>

**Key:**

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

UJ = Not detected/estimated detection limit

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

Table EE-2 with columns for date (5/02, 9/03, 6/04, 8/07, 5/09, 5/10, 2/12, 10/13, 10/14, 10/15) and rows for Chloroform, Methyl tert-butyl ether, Methylen chloride, Tetrachloroethene (PCE), Trichloroethene (TCE), Vinyl chloride, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, 1,1-Dichloroethene, 1,1-Dichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethane.

Table PW-6 with columns for date (5/02, 10/03, 6/04, 8/07, 5/09, 5/10, 2/12, 10/14, 10/15) and rows for Methyl tert-butyl ether, Trichloroethylene (TCE), Tetrachloroethene (PCE), Ethylbenzene, Xylene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, 1,1-Dichloroethene, 1,1-Dichloroethane, 1,1-Dichloroethane.

Table PZ-6A with columns for date (10/14, 10/15) and rows for Methyl tert-butyl ether, trans-1,2-Dichloroethene, 1,1-Dichloroethene, Vinyl chloride, cis-1,2-Dichloroethene, Trichloroethylene (TCE), Tetrachloroethene (PCE), Carbon Disulfide.

Table PW-7 with columns for date (5/02, 10/03, 6/04, 8/07, 5/09, 5/10, 2/12, 10/13, 10/14, 10/15) and rows for Acetone, Methyl tert-butyl ether, 2-Butanone, Ethylbenzene, Xylene, Styrene, Trichloroethylene (TCE), Tetrachloroethene (PCE), 1,1-Dichloroethene, cis-1,2-Dichloroethene, Toluene, trans-1,2-Dichloroethene, Vinyl chloride.

Table MPI-15B with columns for date (5/02, 6/04, 8/07, 5/09, 5/10, 2/12, 10/13, 10/14, 10/15) and rows for 2-Butanone, Methyl tert-butyl ether, Acetone, Chloroform, Tetrachloroethene (PCE).

Table PW-8 with columns for date (5/02, 9/03, 6/04, 8/07, 5/09, 5/10, 2/12, 10/13, 10/14, 10/15) and rows for 1,1-Dichloroethene, 2-Butanone, Trichloroethylene (TCE), trans-1,2-Dichloroethene, Tetrachloroethene (PCE), cis-1,2-Dichloroethene, Methyl tert-butyl ether, Acetone, Xylene, Ethylbenzene, Vinyl chloride, Carbon Disulfide.

Table PZ-8C with columns for date (10/14, 10/15) and rows for Methyl tert-butyl ether, cis-1,2-Dichloroethene, Trichloroethylene (TCE), Tetrachloroethene (PCE), trans-1,2-Dichloroethene, Vinyl chloride, Carbon Disulfide.

Table MPI-3S with columns for date (5/02, 9/03, 6/04, 8/07, 5/09, 5/10, 2/12, 10/13, 10/14, 10/15) and rows for Benzene, Methyl tert-butyl ether, Tetrachloroethene (PCE), 1,2-Dichloroethene, Tert-butyl Methyl Ether.

Table MPI-4S with columns for date (5/02, 9/03, 6/04, 8/07, 5/09, 5/10, 2/12, 10/13, 10/14, 10/15) and rows for Tetrachloroethene (PCE), cis-1,2-Dichloroethene, Methyl tert-butyl ether, Vinyl chloride, Acetone, 1,1-Dichloroethene, Benzene, 2-Butanone, Chloroform, Isopropylbenzene, trans-1,2-Dichloroethene, Trichloroethylene (TCE), Trichloroethene (TCE), Bromochloromethane, Bromoform, Dibromochloromethane.

Table MPI-12B with columns for date (5/02, 9/03, 6/04, 8/07, 5/09, 5/10, 10/15) and rows for cis-1,2-Dichloroethene, Methyl tert-butyl ether, Tetrachloroethene (PCE), Trichloroethylene (TCE).

Table ESI-6 with columns for date (5/02, 9/03, 6/04, 8/07, 5/09, 5/10, 2/12, 10/13, 10/14, 10/15) and rows for 1,1-Dichloroethene, Trichloroethylene (TCE), Tetrachloroethene (PCE), cis-1,2-Dichloroethene, Methyl tert-butyl ether, trans-1,2-Dichloroethene, Vinyl chloride.

Table EE-3 (NEW) with columns for date (2/12, 10/13, 10/14, 10/15) and rows for cis-1,2-Dichloroethene, Trichloroethylene (TCE), Methyl tert-butyl ether, Tetrachloroethene (PCE), Vinyl chloride, Tert-butyl Methyl Ether.

Table MPI-4I with columns for date (5/02, 9/03, 6/04, 8/07, 5/09, 5/10, 2/12, 10/14, 10/15) and rows for Trichloroethylene (TCE), Tetrachloroethene (PCE), cis-1,2-Dichloroethene, Methyl tert-butyl ether, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Vinyl chloride, 1,1-Dichloroethene, Benzene.

Table PZ-5B with columns for date (10/14, 10/15) and rows for trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethylene (TCE), Tetrachloroethene (PCE).

Table MPI-8S/MPI-8SR with columns for date (5/02, 9/03, 6/04, 8/07, 6/12, 10/13, 10/14, 10/15) and rows for cis-1,2-Dichloroethene, Methyl tert-butyl ether, Tetrachloroethene (PCE), trans-1,2-Dichloroethene, Trichloroethylene (TCE), Vinyl chloride.

Table MPI-9S/MPI-9SR with columns for date (5/02, 9/03, 6/04, 8/07, 6/12, 10/13, 10/14, 10/15) and rows for Tetrachloroethene (PCE).

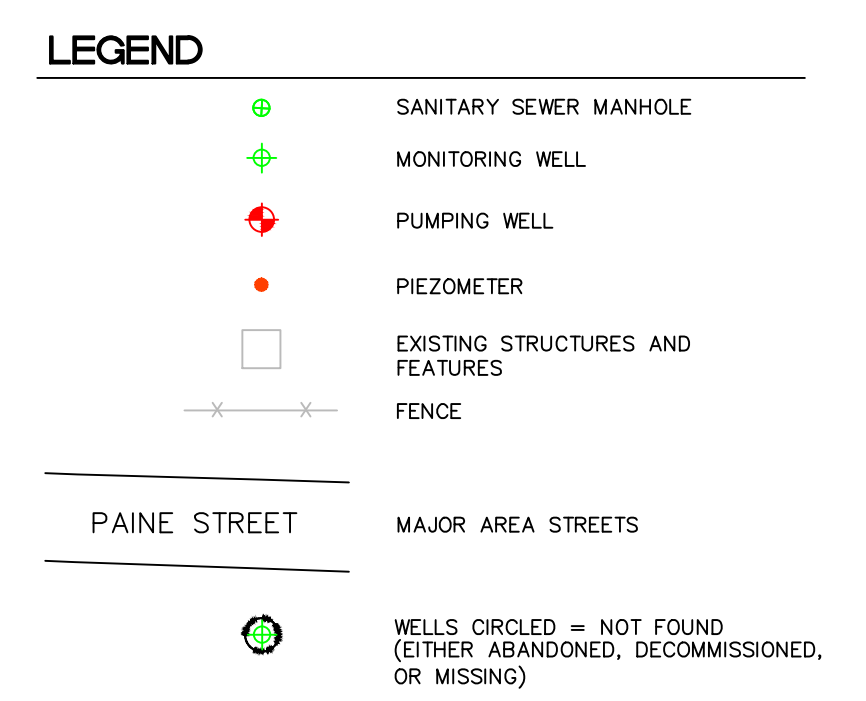
Table MPI-14B/MW-14BR with columns for date (5/02, 9/03, 6/04, 8/07, 2/12, 10/13, 10/14, 10/15) and rows for Vinyl chloride, cis-1,2-Dichloroethene, Methyl tert-butyl ether, Tetrachloroethene (PCE), Trichloroethylene (TCE), trans-1,2-Dichloroethene, Acetone, 1,2-Dichloroethane, Chloroform.

Table PW-4 with columns for date (5/02, 10/03, 6/04, 8/07, 5/09, 5/10, 2/12, 10/13, 10/14, 10/15) and rows for Trichloroethylene (TCE), Tetrachloroethene (PCE), cis-1,2-Dichloroethene, Acetone, 2-Butanone, Ethylbenzene, Xylene, Styrene, Methyl tert-butyl ether, Toluene, Vinyl chloride, 1,1-Trichloroethane, 1,1-Dichloroethane, Benzene, trans-1,2-Dichloroethene, Carbon Disulfide.

Table PW-5 with columns for date (5/02, 10/03, 6/04, 8/07, 5/09, 5/10, 2/12, 10/13, 10/14, 10/15) and rows for Acetone, 2-Butanone, Tetrachloroethene (PCE), Ethylbenzene, Styrene, Trichloroethylene (TCE), cis-1,2-Dichloroethene, Xylene, 1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethane, Benzene, Methyl tert-butyl ether, trans-1,2-Dichloroethene, Vinyl chloride.

Table MPI-14B/MW-14BR with columns for date (5/02, 9/03, 6/04, 8/07, 2/12, 10/13, 10/14, 10/15) and rows for Vinyl chloride, cis-1,2-Dichloroethene, Methyl tert-butyl ether, Tetrachloroethene (PCE), Trichloroethylene (TCE), trans-1,2-Dichloroethene, Acetone, 1,2-Dichloroethane, Chloroform.

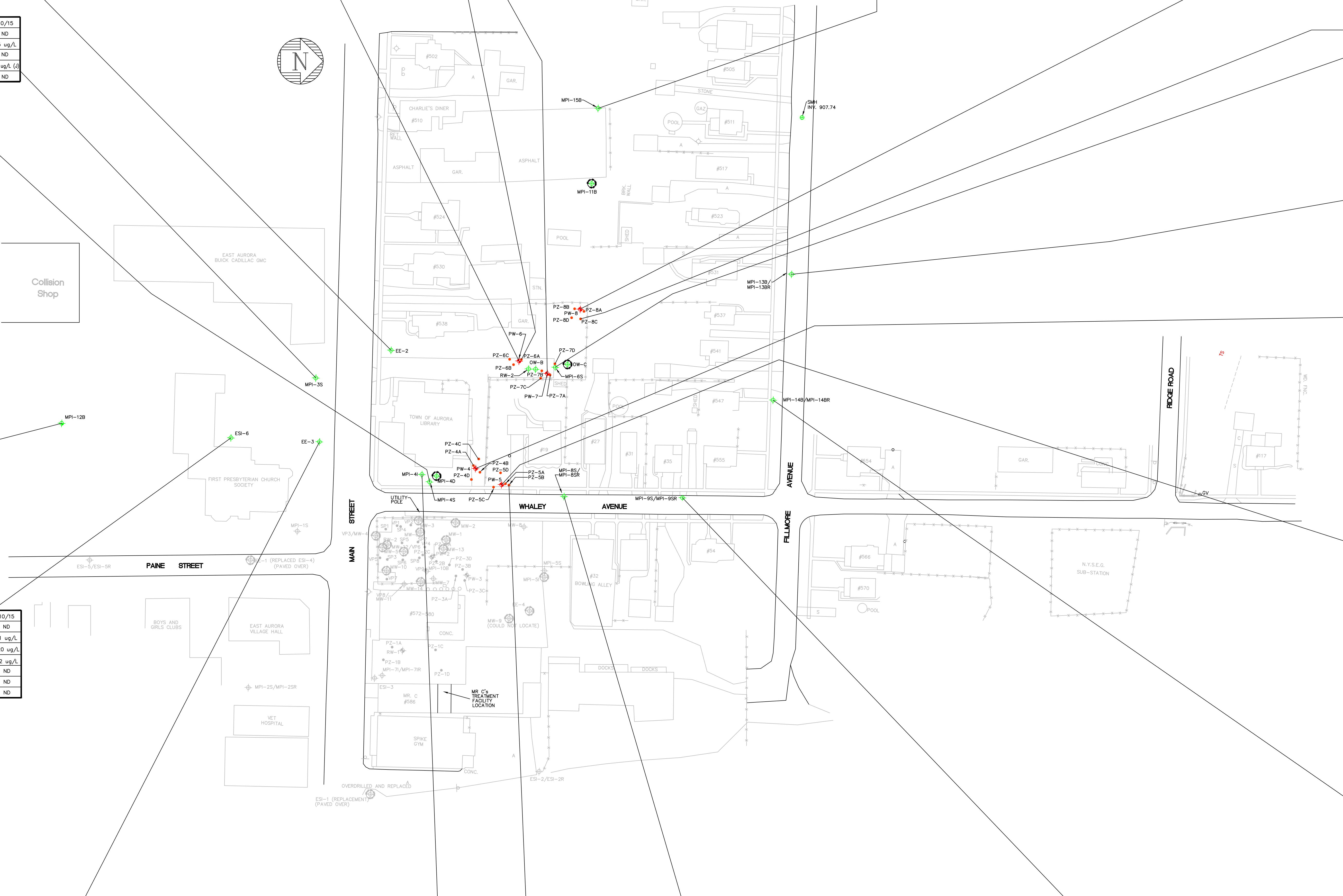
Table with columns for DWG NO., DATE, REFERENCE DRAWING, DESCRIPTION, DWG DATE, DWG APPD., REVISIONS, DESCRIPTION. Includes entries for DEC 31 2015, 7/19/14, 02/26/2013, 10/17/10.



WELL ABBREVIATIONS table with columns for well type and name. Includes EE (ECOLOGY & ENVIRONMENT), ESI (EMPIRE SOILS WELL), MPI (MONITORING WELL), NA (DATA NOT AVAILABLE), OW (OBSERVATION WELL), PW (PUMPING WELL), PZ (PIEZOMETER), RW (RECOVERY WELL), SP (SPARGE POINT), VP (VAPOR COLLECTION POINT), MPI-7R (REPLACEMENT WELL).

ANALYTICAL ABBREVIATIONS table with columns for unit and name. Includes ug/L (MICROGRAMS PER LITER), ND (NOT DETECTED), NS (NOT SAMPLED), NA (NOT ANALYZED), - (NOT ANALYZED OR NOT DETECTED), (j) (ESTIMATED VALUE), (u) (ANALYZED FOR BUT NOT DETECTED AT THE DETECTION LIMIT INDICATED).

- NOTES: 1. ONLY DETECTED COMPOUNDS ARE PRESENTED. 2. HORIZONTAL CONTROL IS BASED UPON THE NEW YORK STATE PLANE COORDINATE SYSTEM, WEST ZONE, 1983 ADJUSTMENT (NAD 83). 3. ELEVATIONS ARE BASED UPON NORTH GEODETIC VERTICAL DATUM, 1929 (NGVD 1929). 4. BENCHMARK IS LOCATED NEAR THE NORTHEAST CORNER OF MAIN STREET AND PAINE STREET, BEING A BRASS DISC SET IN THE TOP OF CONCRETE BASE - ELEVATION 916.64'. 5. ALL ANALYTICAL WORK PERFORMED IN JUNE 2004 WAS ANALYZED USING METHOD 8241 FOR VOLATILE ORGANIC COMPOUNDS. 6. AUGUST 2007 ANALYTICAL WORK PERFORMED USING CLP METHOD 05M4.2.



SEE FIGURE 2 FOR SUMMARY OF MONITORING WELL INFORMATION EAST OF WHALEY AVE AND PAINE STREET.

FIGURE 1 SUMMARY OF GROUNDWATER ANALYTICAL DATA MR. C'S DRY CLEANERS SITE LOCATION MAP (WEST) EAST AURORA, NEW YORK

MW-4 table with columns for date and chemical concentrations (e.g., Vinyl Chloride, Trichloroethylene).

MW-6 table with columns for date and chemical concentrations (e.g., Trichloroethylene, Tetrachloroethene).

MW-7 table with columns for date and chemical concentrations (e.g., Trichloroethylene, Tetrachloroethene).

PZ-3B table with columns for date and chemical concentrations (e.g., trans-1,2-Dichloroethene, cis-1,2-Dichloroethene).

MW-8 table with columns for date and chemical concentrations (e.g., Trichloroethylene, trans-1,2-Dichloroethene).

MPI-1S table with columns for date and chemical concentrations (e.g., Trichloroethylene, Tetrachloroethene).

MW-5 table with columns for date and chemical concentrations (e.g., Xylene, Vinyl Chloride, Trichloroethylene).

ESI-5/ESI-5R table with columns for date and chemical concentrations (e.g., Tetrachloroethene).

ESI-4/EE-1 table with columns for date and chemical concentrations (e.g., Chloroform, 1,1,1-Trichloroethane).

MW-10 table with columns for date and chemical concentrations (e.g., Acetone, cis-1,2-Dichloroethene).

PW-2 table with columns for date and chemical concentrations (e.g., Trichloroethylene, Tetrachloroethene).

MPI-2S/MPI-2SR table with columns for date and chemical concentrations (e.g., 1,1,1-Trichloroethane, Chloroform).

MW-11 table with columns for date and chemical concentrations (e.g., cis-1,2-Dichloroethene, Trichloroethylene).

MPI-10B table with columns for date and chemical concentrations (e.g., Trichloroethylene, Benzene, Tetrachloroethene).

MW-14 table with columns for date and chemical concentrations (e.g., Tetrachloroethene).

ESI-2/ESI-2R table with columns for date and chemical concentrations (e.g., Tetrachloroethene, Chloroform).

IS-1/IS-1 (REPLACEMENT) table with columns for date and chemical concentrations (e.g., 1,2-Dichloroethene, Trichloroethylene).

MPI-5S table with columns for date and chemical concentrations (e.g., Vinyl Chloride, Trichloroethylene).

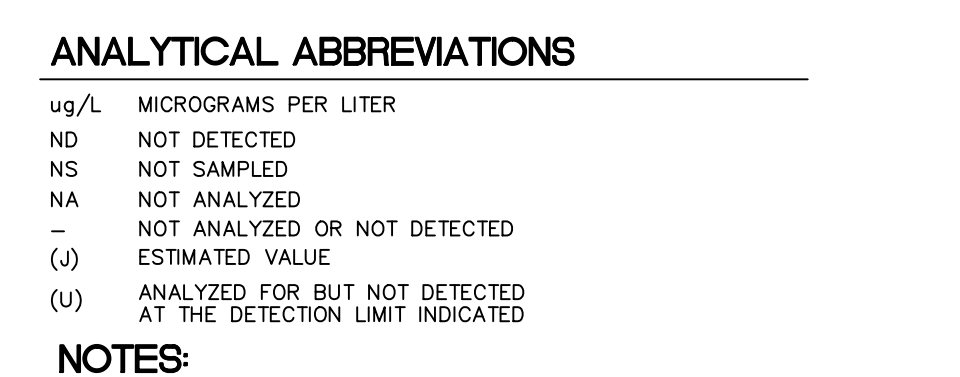
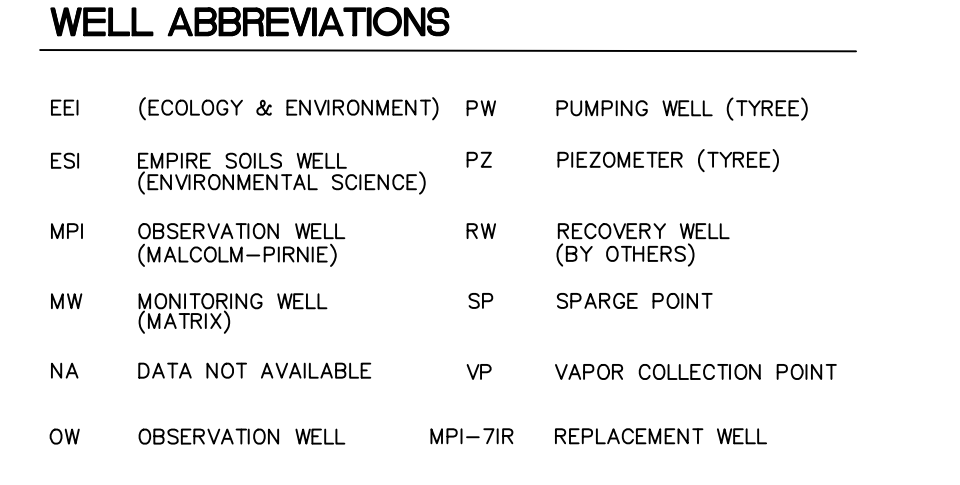
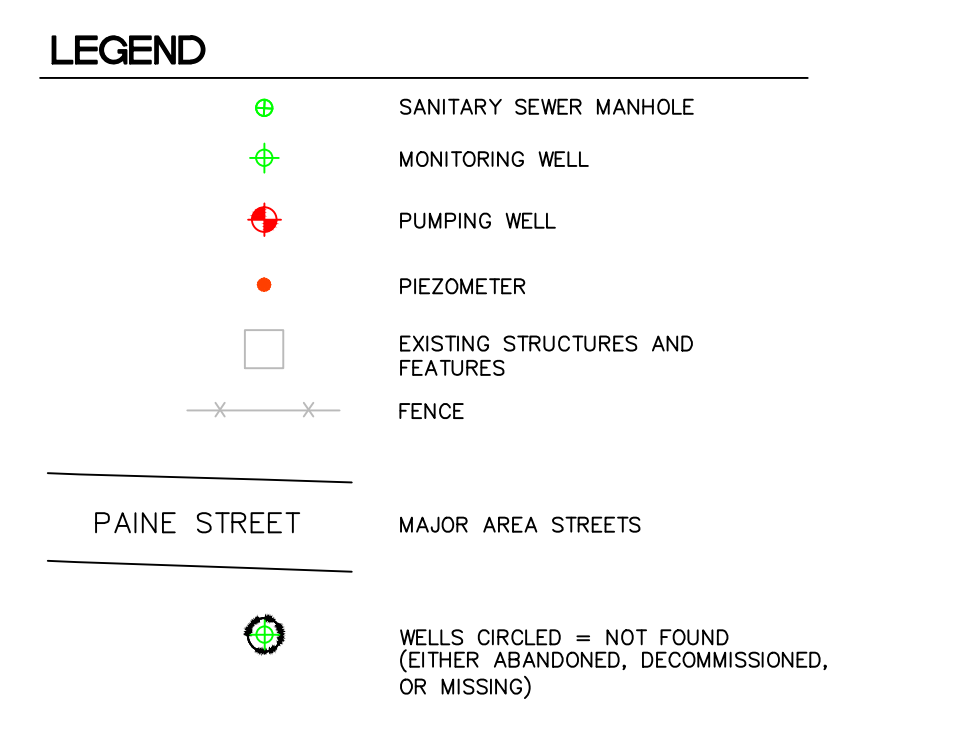
MPI-SI table with columns for date and chemical concentrations (e.g., Methyl tert-Butyl Ether).

EE-4 table with columns for date and chemical concentrations (e.g., cis-1,2-Dichloroethene, trans-1,2-Dichloroethene).

RW-1 table with columns for date and chemical concentrations (e.g., Chloroform, cis-1,2-Dichloroethene).

MPI-7I/MPI-7IR table with columns for date and chemical concentrations (e.g., Trichloroethylene, Tetrachloroethene).

ESI-3 table with columns for date and chemical concentrations (e.g., 1,1,1-Trichloroethane, Trichloroethylene).

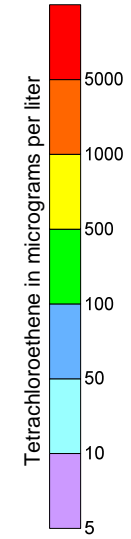
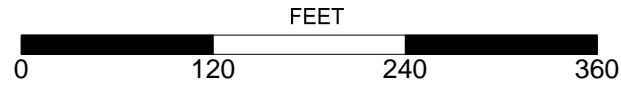
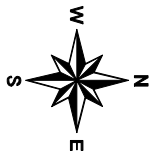


- NOTES: 1. ONLY DETECTED COMPOUNDS ARE PRESENTED. 2. HORIZONTAL CONTROL IS BASED UPON THE NEW YORK STATE PLANE COORDINATE SYSTEM... 3. ELEVATIONS ARE BASED UPON NORTH GEODETIC VERTICAL DATUM... 4. BENCHMARK IS LOCATED NEAR THE NORTHEAST CORNER OF MAIN STREET AND PAINÉ STREET... 5. ALL ANALYTICAL WORK PERFORMED IN JUNE 2004 WAS ANALYZED USING METHOD 524.1 FOR VOLATILE ORGANIC COMPOUNDS. 6. AUGUST 2007 ANALYTICAL WORK PERFORMED USING CLP METHOD 04M4.2.

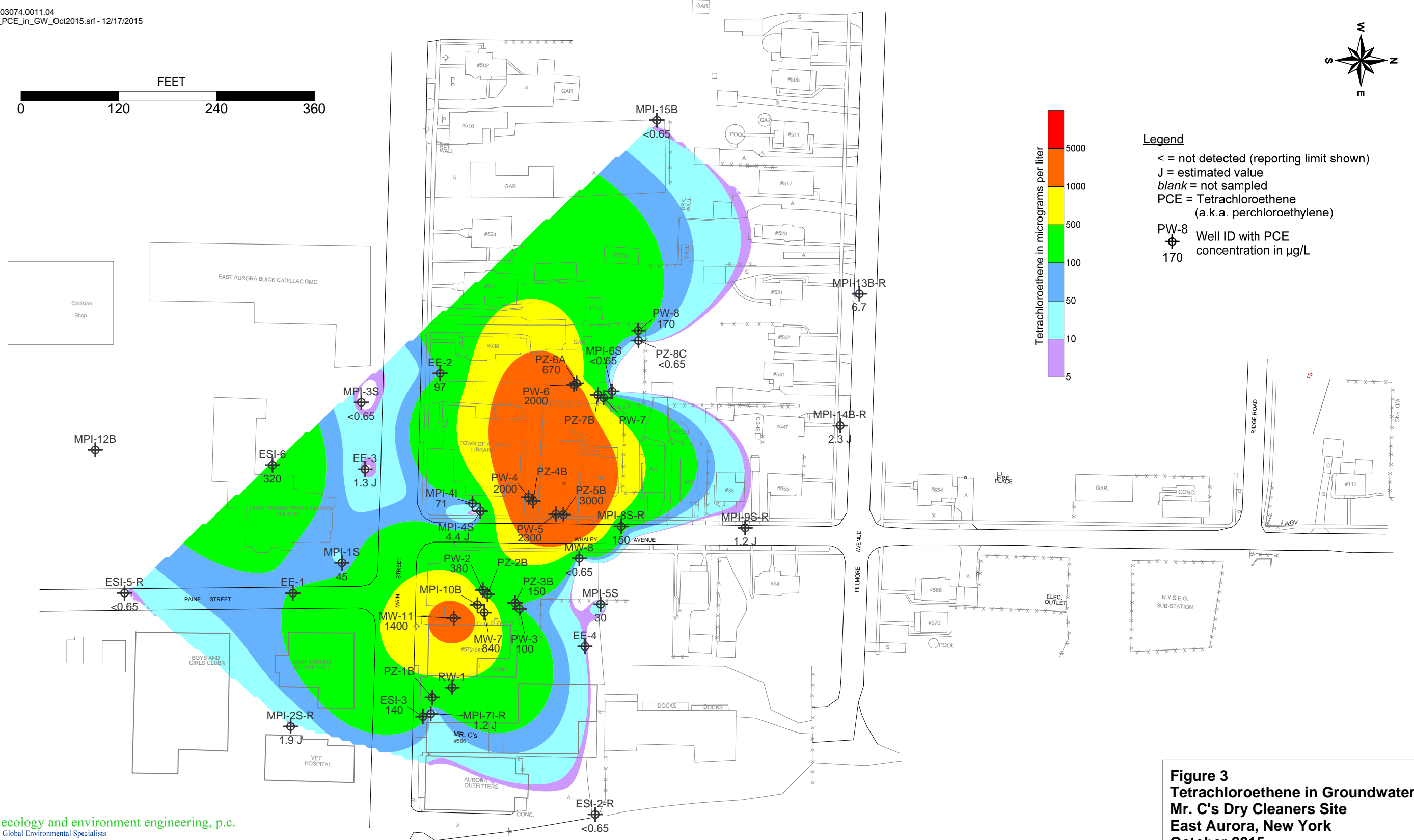


Table with columns: DEC 31 10:00.dwg, 7/79/94, ISOPHTHALIC MAP AND CROSS SECTIONS 413/14, GROUNDWATER LEVELS MALCOLM FIRME INC., 0286/0203.dwg, 10/77/00, REMEDIAL DESIGN PIPING AND WELL LAYOUT PLAN MALCOLM FIRME INC., A, 12/76/07, KMK, MGS, UPDATED PER AUGUST 2007 SAMPLE EVENT.

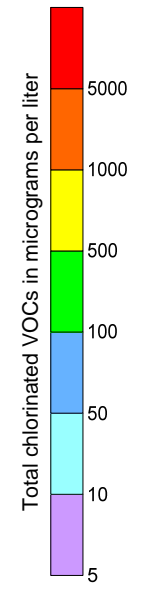
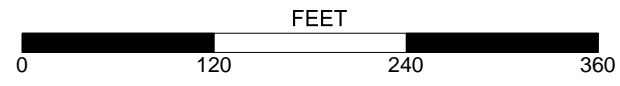
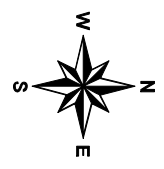
FIGURE 2 SUMMARY OF GROUNDWATER ANALYTICAL DATA MR.C'S DRY CLEANERS SITE LOCATION MAP (EAST) EAST AURORA, NEW YORK




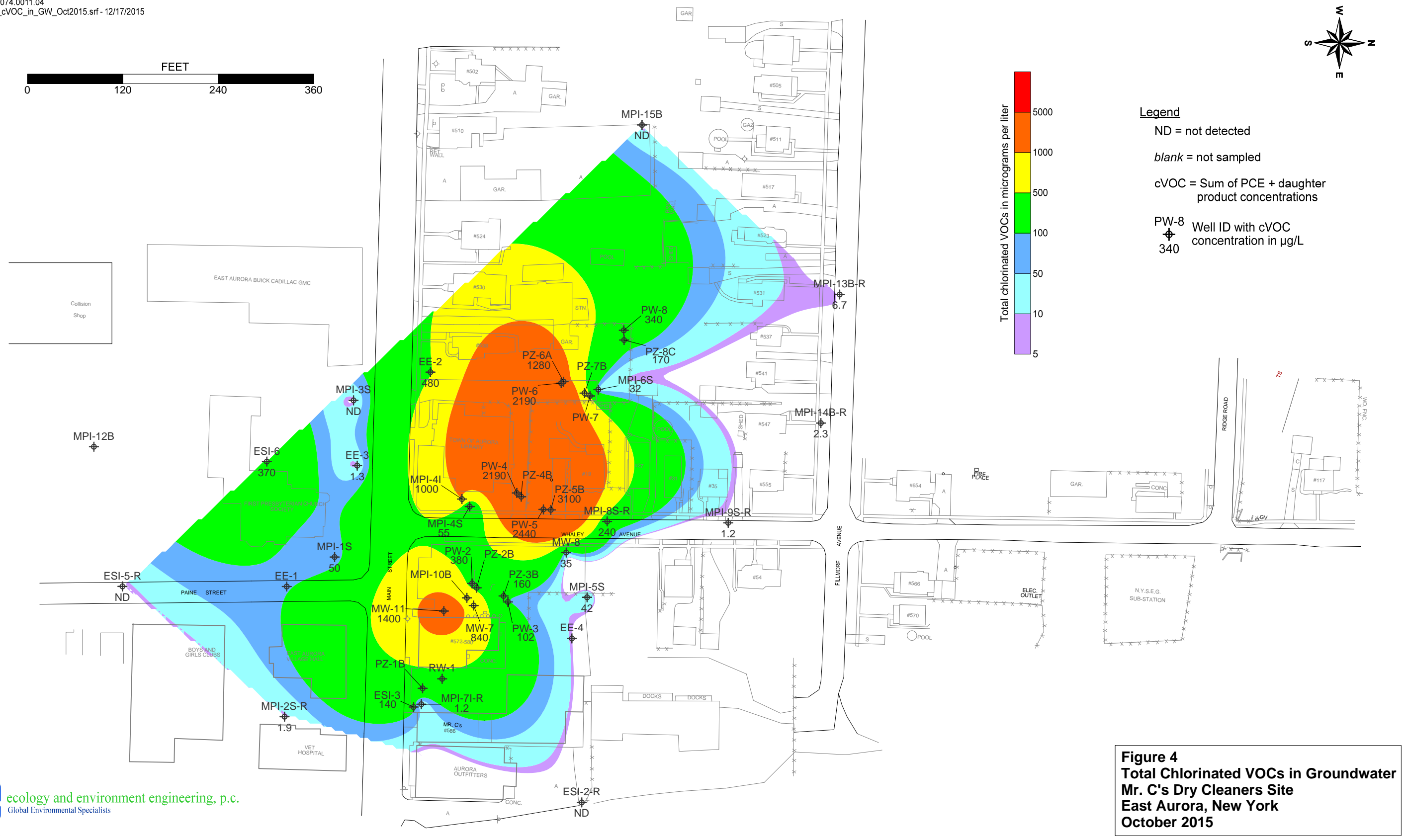
**Legend**  
< = not detected (reporting limit shown)  
J = estimated value  
blank = not sampled  
PCE = Tetrachloroethene  
(a.k.a. perchloroethylene)  
PW-8  
Well ID with PCE  
170 concentration in µg/L



**Figure 3**  
**Tetrachloroethene in Groundwater**  
**Mr. C's Dry Cleaners Site**  
**East Aurora, New York**  
**October 2015**

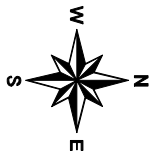
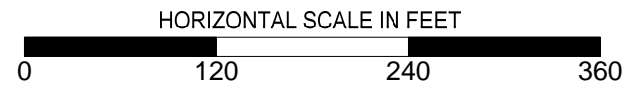


**Legend**  
 ND = not detected  
 blank = not sampled  
 cVOC = Sum of PCE + daughter product concentrations  
 PW-8  
 Well ID with cVOC concentration in µg/L  
 340







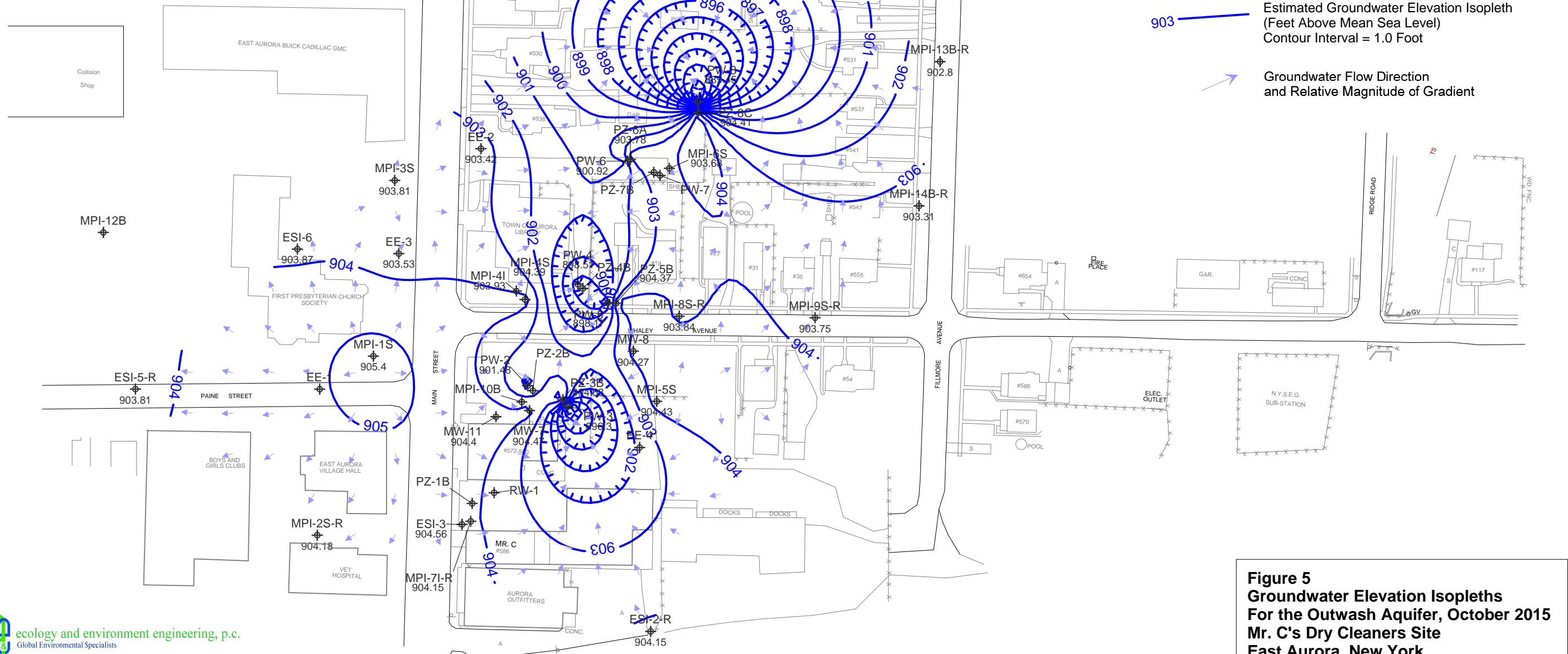
**Figure 4**  
**Total Chlorinated VOCs in Groundwater**  
**Mr. C's Dry Cleaners Site**  
**East Aurora, New York**  
**October 2015**





**Legend**

- MW-8  Well ID with Measured Groundwater Elevation in Feet Above Mean Sea Level
- 904.27  904.27 Feet Above Mean Sea Level
-  Estimated Groundwater Elevation Isopleth (Feet Above Mean Sea Level) Contour Interval = 1.0 Foot
-  Groundwater Flow Direction and Relative Magnitude of Gradient



**Figure 5**  
**Groundwater Elevation Isopleths**  
**For the Outwash Aquifer, October 2015**  
**Mr. C's Dry Cleaners Site**  
**East Aurora, New York**

**ATTACHMENT A  
PURGE LOG**



# 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: MC C'S / East Aurora  
EEPC Project No.: 10C3074.0011.04

Well ID: MW-8  
Date: 10/21/15

Initial Depth to Water: 11.35 feet TOIC  
Total Well Depth: 13.85 feet TOIC  
Depth to Pump: 12.85 feet TOIC  
Initial Pump Rate: 200 (rpm) / gpm  
adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes  
adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes

Start Time: 1019  
End Time: 1100  
 Bailer  Pump  
Pump Type: Lynchon  
Well Diameter: 2 inches  
1x Well Volume: 0.4 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm / mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1020	0	6.69	16.7	-120.6	2.60	3.45	27.0	11.40
1025	1.0	6.74	16.7	-122.4	2.61	1.72	19.6	11.40
1030	2.0	6.80	16.7	-122.8	2.61	1.65	13.5	11.42
1035	3.0	6.83	16.6	-122.2	2.57	1.13	8.88	11.42
1040	4.0	6.85	16.6	-120.3	2.96	1.02	4.68	11.45
1045	5.0	6.85	16.6	-119.8	2.87	0.95	4.21	11.45
1050	6.0	6.85	16.6	-118.7	2.84	0.99	2.52	11.45
1055	7.0	6.84	16.6	-117.9	2.90	0.90	2.55	11.45
1100	8.0	6.84	16.6	-117.2	2.90	0.90	2.57	11.45
<del>800</del>								
Final Sample Data:		6.84	16.6	-117.2	2.90	0.90	2.57	11.45

Sample ID: MW-8-OCT15  
Sample Time: 1103

Duplicate?    
MS/MSD?    
Dupe Samp ID: \_\_\_\_\_

Analyses:  VOCs  SVOCs  PCBs  Metals  \_\_\_\_\_  
Methods:  CLP  SW846  Drink. Wtr.  §2600 \_\_\_\_\_  
Comments: \_\_\_\_\_  
Sampler(s): S. Craig, L. Peckl



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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: MFC'S / East Aurora

Well ID: PZ-5B

EEEPC Project No.: 100.3074.0011.04

Date: 10/21/15

Initial Depth to Water: 10.84 feet TOIC

Start Time: 1130

Total Well Depth: 21.48 feet TOIC

End Time: 1205

Depth to Pump: 28.48 feet TOIC

Bailer  Pump

Initial Pump Rate: 200 ~~w/~~ apm gpm

Pump Type: Hyphom

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

Well Diameter: 2 inches

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

1x Well Volume: 3.03 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1130	0	7.32	13.5	11.3	3.22	0.76	42	10.91
1135	1.0	7.26	14.0	17.5	3.17	0.57	52.7	10.91
1140	2.0	7.25	13.9	20.6	3.12	0.42	30.8	10.91
1145	3.0	7.22	13.9	23.3	3.10	0.35	13.9	10.92
1150	4.0	7.20	14.0	24.3	3.10	0.33	13.2	10.92
1155	5.0	7.19	14.0	26.2	3.12	0.34	7.75	10.92
1200	6.0	7.18	14.0	28.1	3.12	0.41	5.26	10.92
1205	7.0	7.17	14.0	29.2	3.12	0.41	4.18	10.92
<i>200</i>								
Final Sample Data:		7.17	14.0	29.2	3.12	0.41	4.18	10.92

Sample ID: PZ-5B-OCT-15

Duplicate?

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

Sample Time: 1207

MS/MSD?

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

Methods:  VOCs  CLP

SVOCs  SW846

PCBs  Drink. Wtr.

Metals  260C

\_\_\_\_\_  \_\_\_\_\_

Sampler(s): S. Craig, L. Reed



# 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: MFC'S / East Aurora

Well ID: MPI-8SR

EEEPC Project No.: 10C3074.0011.04

Date: 10/21/15

Initial Depth to Water: 10.12 feet TOIC

Start Time: 1224

Total Well Depth: 17.40 feet TOIC

End Time: 1249

Depth to Pump: 16.40 feet TOIC

Bailer  Pump

Initial Pump Rate: 200 (MLpm) / gpm

Pump Type: Lupheron

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

Well Diameter: 2 inches

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

1x Well Volume: 1.18 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1224	0	7.26	15.0	50.0	3.25	1.12	11.42	10.70
1229	1.0	7.14	15.2	40.1	3.24	0.64	8.43	10.70
1234	2.0	7.14	15.2	33.7	3.22	0.60	7.61	10.70
1239	3.0	7.14	15.2	32.3	3.20	0.50	7.60	10.70
1244	4.0	7.13	15.3	32.8	3.21	0.50	7.33	10.70
1249	5.0	7.12	15.4	32.8	3.20	0.50	6.40	10.70
<i>[Handwritten signature]</i>								
Final Sample Data:		7.12	15.4	32.8	3.20	0.50	6.40	10.70

Sample ID: MPI-8SR-OCT15

Duplicate?

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

Sample Time: 1250

MS/MSD?

Analyses:

Methods:

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

VOCs

CLP

SVOCs

SW846

PCBs

Drink. Wtr.

Metals

8260C

\_\_\_\_\_

\_\_\_\_\_

Sampler(s): S. Craig, L. Roedl



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: MFC's / East Aurora  
EEPEC Project No.: 1003074.0011.04

Well ID: MPI-55  
Date: 10/21/15

Initial Depth to Water: 12.02 feet TOIC  
Total Well Depth: 17.79 feet TOIC  
Depth to Pump: 16.79 feet TOIC  
Initial Pump Rate: 260 (gpm) gpm  
adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes  
adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes

Start Time: 1400  
End Time: 1440  
 Bailer  Pump  
Pump Type: typhoon  
Well Diameter: 2 inches  
1x Well Volume: 0.94 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
14:00	0	7.01	16.7	7.00	2.08	1.39	13.59	12.01
14:05	1.0	6.94	16.4	52.7	2.13	0.67	12.30	12.02
14:10	2.0	6.93	16.3	30.4	1.88	0.40	7.09	12.02
14:15	3.0	6.96	16.2	13.0	1.91	0.29	3.49	12.02
14:20	4.0	6.98	16.2	3.3	1.91	0.27	2.97	12.02
14:25	5.0	6.99	16.1	-2.4	1.95	0.24	2.11	12.02
14:30	6.0	7.00	16.1	-8.9	1.94	0.22	1.98	12.02
14:35	7.0	7.02	16.0	-15.3	1.94	0.19	1.95	12.02
14:40	8.0	7.02	16.0	-17.1	1.94	0.18	1.65	12.02
<i>File</i>								
Final Sample Data:		7.02	16.0	-17.1	1.94	0.18	1.65	12.02

Sample ID: MPI-55-OCT15  
Sample Time: 1441

Duplicate?   
MS/MSD?  Dupe Samp ID: \_\_\_\_\_

Analyses:  VOCs  SVOCs  PCBs  Metals  \_\_\_\_\_  
Methods:  CLP  SW846  Drink. Wtr.  \_\_\_\_\_  
Comments: \_\_\_\_\_  
Sampler(s): S. Craig, L. Reed



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**WELL PURGE & SAMPLE RECORD**

Site Name/Location: MFC'S East Aurora  
EEEP Project No.: 10C 3074.0011.04

Well ID: MW7  
Date: 10/22/15

Initial Depth to Water: 11.49 feet TOIC  
Total Well Depth: 14.40 feet TOIC  
Depth to Pump: 13.40 feet TOIC  
Initial Pump Rate: 200 <sup>(v-lpm)</sup> gpm  
adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes  
adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes

Start Time: 0847  
End Time: 0927  
 Bailer  Pump  
Pump Type: Typhoon  
Well Diameter: 2 inches  
1x Well Volume: 0.47 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
0847	0	7.80	15.3	46.9	2.01	4.13	21.1	11.42
0853	1.0	7.38	15.3	75.3	1.94	3.21	18.5	11.43
0857	2.0	7.28	15.3	79.4	3.43	3.43	11.1	11.44
0903	3.0	7.24	15.3	79.7	1.55	4.10	8.38	11.44
0907	4.0	7.23	15.3	80.3	1.37	4.53	5.21	11.45
0913	5.0	7.23	15.4	83.6	1.29	4.97	2.76	11.45
0917	6.0	7.23	15.3	84.7	1.26	5.04	1.99	11.45
0923	7.0	7.23	15.3	84.8	1.24	5.10	1.74	11.45
0927	8.0	7.23	15.3	85.1	1.22	5.13	1.72	11.45
<del>_____</del>								
<del>_____</del>								
<del>_____</del>								
<del>_____</del>								
<del>_____</del>								
<del>_____</del>								
<del>_____</del>								
<del>_____</del>								
Final Sample Data:		7.23	15.3	85.1	1.22	5.13	1.72	11.54

Sample ID: MW-7-OCT15 Duplicate?  Dupe Samp ID: MW-7-OCT15-Q  
Sample Time: 0929 MS/MSD?

Analyses:  VOCs  CLP  
 SVOCs  SW846  
 PCBs  Drink. Wtr.  
 Metals  8260 C  
 \_\_\_\_\_  \_\_\_\_\_  
 Sampler(s): S. Craig, L. Poehl







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## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr C's / East Aurora  
EEEEPC Project No.: 1003074.0011.04

Well ID: MPI-14BR  
Date: 10/22/15

Initial Depth to Water: 10.40 feet TOIC

Start Time: 1100

Total Well Depth: 28.20 feet TOIC

End Time: 1200

Depth to Pump: 27.20 feet TOIC

Bailer  Pump

Initial Pump Rate: 2.00 (w/ pm) gpm

Pump Type: Hyphoon

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

Well Diameter: 2 inches

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

1x Well Volume: 2.9 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm, mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1100	0	7.06	14.4	-96.0	2.03	0.95	1031	10.40
1105	1.0	6.99	14.8	-114.0	2.03	0.40	1233	10.40
1110	2.0	6.97	14.8	-115.9	2.04	0.29	1165	10.40
1115	3.0	6.97	14.8	-115.4	2.04	0.37	936	10.40
1120	4.0	6.97	14.8	-115.4	2.04	0.33	793	10.40
1125	5.0	6.96	14.9	-115.4	2.04	0.28	682	10.40
1130	6.0	6.96	14.8	-118.1	2.04	0.26	210	10.40
1135	7.0	6.96	14.7	-117.9	2.05	0.22	161	10.40
1140	8.0	6.96	14.7	-120.3	2.05	0.21	97.8	10.40
1145	9.0	6.97	14.7	-122.1	2.06	0.20	58.7	10.40
1150	10.0	6.97	14.7	-121.5	2.07	0.19	48.6	10.40
1155	11.0	6.97	14.7	-124.9	2.08	0.18	41.9	10.40
1200	12.0	6.97	14.7	-121.6	2.10	0.17	31.7	10.40
<del>Stop</del>								
Final Sample Data:		6.97	14.7	-121.6	2.10	0.17	31.7	10.40

Sample ID: MPI-14BR-OCT15

Duplicate?

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

Sample Time: 1202

MS/MSD?

Analyses:

Methods:

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

VOCs

CLP

SVOCs

SW846

PCBs

Drink. Wtr.

Metals

8260C

\_\_\_\_\_

\_\_\_\_\_

Sampler(s): S. Craig, L. Roadl



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: NFC's / East Aurora

Well ID: MPI-9SR

EEEPC Project No.: 1003074.0011.04

Date: 10/22/15

Initial Depth to Water: 9.63 feet TOIC

Start Time: 1302

Total Well Depth: 17.45 feet TOIC

End Time: 1337

Depth to Pump: 16.45 feet TOIC

Bailer  Pump

Initial Pump Rate: 200 (w/ lpm) gpm

Pump Type: Juphoon

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

Well Diameter: 2 inches

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

1x Well Volume: 1.27 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1302	0	7.24	14.3	82.8	3.19	0.92	25.6	9.71
1307	1000 <sup>gal</sup>	6.97	14.4	79.5	3.20	0.47	20.8	9.69
1312	2000 <sup>gal</sup>	6.94	14.4	78.5	3.20	0.36	13.0	9.68
1317	3000 <sup>gal</sup>	6.92	14.4	78.2	3.20	0.34	15.5	9.70
1322	4.0	6.91	14.7	77.0	3.19	0.50	11.76	9.71
1327	5.0	6.91	14.2	77.4	3.20	0.36	9.81	9.71
1332	6.0	6.91	14.2	77.9	3.20	0.31	7.24	9.72
1337	7.0	6.90	14.2	78.3	3.20	0.29	5.28	9.72
Final Sample Data:		6.90	14.2	78.3	3.20	0.29	5.28	9.72

Sample ID: MPI-9SR-OCT15

Duplicate?

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

Sample Time: 1337

MS/MSD?

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

Comments: Well needs new 2" plug

- VOCs  CLP
- SVOCs  SW846
- PCBs  Drink. Wtr.
- Metals  8260C
- \_\_\_\_\_  \_\_\_\_\_

Sampler(s): S. Craig L. Reed



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: MCC'S / East Aurora  
EEEPC Project No.: 10C3074.0011.04

Well ID: PZ-3B  
Date: 10/22/15

Initial Depth to Water: 11.63 feet TOIC  
Total Well Depth: 29.39 feet TOIC  
Depth to Pump: 28.34 feet TOIC  
Initial Pump Rate: 100 (MLpm) / gpm  
adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes  
adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes

Start Time: 1400  
End Time: 1450  
 Bailer  Pump  
Pump Type: Hyphoon  
Well Diameter: 2 inches  
1x Well Volume: 2.89 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm, mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1400	0	7.55	13.7	80.5	1.68	1.24	67	11.71
1405	.50	7.34	14.0	77.6	1.68	0.33	83	11.71
1410	1.0	7.33	13.9	74.7	1.68	0.26	77	11.71
1415	1.5	7.31	13.9	72.2	1.69	0.24	66	11.71
1420	2.0	7.30	13.8	70.3	1.69	0.23	77.5	11.74
1425	2.5	7.29	14.0	67.8	1.70	0.27	63.5	11.71
1430	3.0	7.28	14.0	65.7	1.70	0.24	54.3	11.71
1435	3.5	7.28	13.9	63.9	1.70	0.22	54.2	11.71
1440	4.0	7.28	13.9	61.8	1.70	0.20	43.4	11.71
1445	4.5	7.27	13.9	58.3	1.70	0.23	40.9	11.71
1450	5.0	7.27	14.0	55.6	1.70	0.22	33.2	11.71
86e								
Final Sample Data:		7.28	14.0	55.6	1.70	0.22	33.2	11.71

Sample ID: PZ-3B-OCT15  
Sample Time: 1451

Duplicate?  MS/MSD?  Dupe Samp ID: \_\_\_\_\_

Analyses:  VOCs  SVOCs  PCBs  Metals  \_\_\_\_\_  
Methods:  CLP  SW846  Drink. Wtr.  8260C  \_\_\_\_\_  
Comments: \_\_\_\_\_  
Sampler(s): S. Craig, L. Roehl



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: Mr C's

Well ID: EST 6

EEEP Project No.: 1003074.0011.04

Date: 10/23/15

Initial Depth to Water: 10.61 feet TOIC

Start Time: 9:20

Total Well Depth: 16.31 feet TOIC

End Time: 10:00

Depth to Pump: 15.31 feet TOIC

Bailer  Pump

Initial Pump Rate: 200 Lpm / gpm 251 gpm

Pump Type: Typhoon

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

Well Diameter: 12" inches

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

1x Well Volume: 0.92 gallons = 2.7 g + flows

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
9:20	0	7.11	10.9	189	3.81	-	7100	10.69
9:25	1.0	7.18	10.6	186	3.79	-	39.1	10.69
9:30	2.0	7.26	11.8	174	3.81	-	28.0	10.68
9:35	3.0	7.24	11.9	170	3.80	-	25.7	10.68
9:40	4.0	7.24	11.9	150	3.82	-	18.9	10.68
9:45	5.0	7.41	11.2	121	3.81	-	25.9	10.65
9:50	6.0	7.35	11.5	112	3.80	-	24.3	10.65
9:55	7.0	7.41	11.5	84	3.88	-	15.2	10.65
10:00	8.0	7.41	11.8	76	3.89	-	13.7	10.65
10:05	9.0	7.42	11.7	64	3.84	-	10.2	10.65
10:10	10.0	7.41	11.6	65	3.87	-	6.30	10.65
10:15	11.0							
Final Sample Data: 7.41 11.6 65 3.87 - 6.30 10.65								

Sample ID: EST-6-00115

Duplicate?

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

Sample Time: 10:15

MS/MSD?

Analyses: VOCs Methods: \_\_\_\_\_ Comments: \_\_\_\_\_

VOCs  CLP \_\_\_\_\_

SVOCs  SW846 \_\_\_\_\_

PCBs  Drink. Wtr. \_\_\_\_\_

Metals  8260C \_\_\_\_\_

\_\_\_\_\_  \_\_\_\_\_ Sampler(s): L. R. 012



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: MFC'S / East Aurora

Well ID: EE-3

EEPC Project No.: 10C 3074.0011.01

Date: 10/23/15

Initial Depth to Water: 11.11 feet TOIC

Start Time: 0910

Total Well Depth: 828.05 feet TOIC

End Time: 1000

Depth to Pump: 27.03 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: 2.76 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm, mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
0910	0	8.44	11.7	-19.0	4.66	4.07	135.0	11.24
0915	0.75	7.31	14.0	10.8	4.73	3.22	107.9	11.24
0920	1.5	7.17	13.9	-1.4	4.74	2.47	92.2	11.24
0925	2.25	7.12	13.7	-29.5	4.74	1.68	87.1	11.24
0930	3.0	7.11	13.1	-51.9	4.74	1.19	80.7	11.24
0935	3.75	7.10	12.7	-61.9	4.74	0.82	66.1	11.25
0940	4.5	7.09	13.0	-69.2	4.73	0.54	56.1	11.25
0945	5.25	7.03	12.8	-62.7	4.74	0.40	36.9	11.25
0950	6.0	7.08	13.1	-64.3	4.72	0.31	30.7	11.25
0955	6.75	7.08	13.0	-70.1	4.72	0.28	23.9	11.25
1000	7.5	7.09	12.8	-70.8	4.72	0.24	15.6	11.25
<del>See</del>								
Final Sample Data:		7.09	12.8	-70.5	4.72	0.24	15.6	11.25

Sample ID: EE-3-OCT15

Duplicate?

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

Sample Time: 1002

MS/MSD?

Analyses: \_\_\_\_\_ Methods: \_\_\_\_\_ Comments: \_\_\_\_\_

VOCs  CLP \_\_\_\_\_

SVOCs  SW846 \_\_\_\_\_

PCBs  Drink. Wtr. \_\_\_\_\_

Metals  8260C \_\_\_\_\_

\_\_\_\_\_  \_\_\_\_\_ Sampler(s): S. Craig



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: McClellan East Aurora

Well ID: WPF-35

EEPC Project No.: 10C3074.0011.04

Date: 10/23/15

Initial Depth to Water: 10.59 feet TOIC

Start Time: 1050

Total Well Depth: 17.87 feet TOIC

End Time: 1135

Depth to Pump: 16.87 feet TOIC

Bailer  Pump

Initial Pump Rate: 150 (ml/pm) gpm

Pump Type: Luphon

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

Well Diameter: 2 inches

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

1x Well Volume: 1.18 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1050	0	7.52	13.5	-109.4	2.82	10.8	913	10.68
1055	<del>750</del>	7.29	13.9	-127.5	2.82	0.40	144	10.69
1100	1500	7.28	13.9	-129.6	2.82	0.35	152	10.69
1105	2250	7.24	14.0	-131.0	2.82	0.33	144	10.69
1110	3000	7.22	14.1	-130.4	2.82	0.36	87.1	10.70
1115	3750	7.21	14.1	-133.1	2.81	0.34	57.5	10.70
1120	4500	7.21	14.0	-133.8	2.82	0.40	39.0	10.70
1125	5250	7.21	14.0	-133.9	2.82	0.35	25.1	10.70
1130	6000	7.20	14.0	-134.5	2.81	0.32	16.9	10.71
1135	6750	7.20	14.0	-134.9	2.80	0.31	12.5	10.71
<i>260</i>								
Final Sample Data:		7.20	14.0	-134.9	2.80	0.31	12.5	10.71

Sample ID: WPF-35-OCT15

-Duplicate?

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

Sample Time: 1138

MS/MSD?

Analyses: \_\_\_\_\_ Methods: \_\_\_\_\_ Comments: \_\_\_\_\_

VOCs  CLP \_\_\_\_\_

SVOCs  SW846 \_\_\_\_\_

PCBs  Drink. Wtr. \_\_\_\_\_

Metals  8260C \_\_\_\_\_

\_\_\_\_\_  \_\_\_\_\_ Sampler(s): S. Craig



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: MIC's

Well ID: MPT-15

EEPC Project No.: 103674.020 11.04

Date: October 23, 2012

Initial Depth to Water: 9.68 feet TOIC

Start Time: 10:45

Total Well Depth: 18.99 feet TOIC

End Time: 11:55

Depth to Pump: 17.99 feet TOIC

Bailer  Pump

Initial Pump Rate: 200 Lpm / gpm mls/min

Pump Type: Typhoon

adjusted to: 300 at 1:00 minutes

Well Diameter: 2 inches

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

1x Well Volume: 1.5 gallons = 4.5

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
10:45	0	7.83	10.5	84	2.51	—	45.1	10.97
10:50	1.0	7.78	10.9	62	2.27	—	37.9	10.97
10:55	2.0	7.69	11.1	75	2.13	—	22.9	11.07
11:00	3.5	7.77	11.6	49	2.01	—	12.5	11.40
11:05	5.0	7.75	11.4	44	2.09	—	5.47	11.43
11:10	6.5	7.78	11.5	80	2.27	—	3.47	11.49
11:15	8.0	7.84	11.9	69	2.40	—	2.95	11.51
11:20	9.5	7.74	11.9	71	2.58	—	1.95	11.61
11:25	11.0	7.74	12.0	72	2.41	—	2.03	11.80
11:30	12.5	7.74	11.9	69	3.04	—	3.09	11.71
11:35	14.0	7.74	11.9	61	3.51	—	2.00	11.71
11:40	15.5	7.74	11.9	60	3.00	—	2.99	11.71
11:45	17.0	7.74	11.9	59	3.01	—	3.00	11.71
11:50	18.5	7.74	11.9	61	3.00	—	2.98	11.71
Final Sample Data:		7.74	11.9	61	3.00	—	2.98	11.71

Sample ID: MPT-15-Oct 15

Duplicate?

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

Sample Time: 11:55

MS/MSD?

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

VOCs  CLP \_\_\_\_\_

SVOCs  SW846 \_\_\_\_\_

PCBs  Drink. Wtr. \_\_\_\_\_

Metals  8260C \_\_\_\_\_

\_\_\_\_\_  \_\_\_\_\_ Sampler(s): L. ROLD



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: MRC'S East Aurora

Well ID: EST-SR

EEPC Project No.: 1003074.0011.04

Date: 10/26/15

Initial Depth to Water: 8.38 feet TOIC

Start Time: 0850

Total Well Depth: 14.49 feet TOIC

End Time: 0930

Depth to Pump: 13.49 feet TOIC

Bailer  Pump

Initial Pump Rate: 100 (m) Lpm gpm

Pump Type: Hyphoon

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

Well Diameter: 2 inches

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

1x Well Volume: 0.99 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
0850	0	7.89	15.4	93.5	5.39	0.96	41.2	8.40
0855	0.5	7.47	15.5	109.3	5.37	0.83	31.3	8.43
0900	1.0	7.35	15.1	119.8	5.32	1.27	22.0	8.43
0905	1.5	7.19	16.2	124.8	5.23	0.78	14.8	8.43
0910	2.0	7.15	16.5	125.8	5.15	0.68	11.12	8.43
0915	2.5	7.14	16.6	124.8	5.10	0.67	7.99	8.43
0920	3.0	7.13	16.7	123.0	5.08	0.73	5.62	8.43
0925	3.5	7.12	16.8	119.0	5.07	0.79	4.06	8.43
0930	4.0	7.12	17.0	112.8	5.08	0.77	3.87	8.43
<i>See</i>								
Final Sample Data:		7.12	17.0	112.8	5.05	0.77	3.87	8.43

Sample ID: EST-SR-OCT15

Duplicate?

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

Sample Time: 0932

MS/MSD?

Analyses: \_\_\_\_\_ Methods: \_\_\_\_\_ Comments: \_\_\_\_\_

VOCs  CLP \_\_\_\_\_

SVOCs  SW846 \_\_\_\_\_

PCBs  Drink. Wtr. \_\_\_\_\_

Metals  8260C \_\_\_\_\_

\_\_\_\_\_  \_\_\_\_\_ Sampler(s): S. Craig L. Peedl





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**WELL PURGE & SAMPLE RECORD**

Site Name/Location: Mrc's / East Aurora  
EEPC Project No.: 10C3074.0011.04

Well ID: MPI-2SR  
Date: 10/26/15

Initial Depth to Water: 11.45 feet TOIC  
Total Well Depth: 18.37 feet TOIC  
Depth to Pump: 17.37 feet TOIC  
Initial Pump Rate: 200 (MLPM) gpm  
adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes  
adjusted to: \_\_\_\_\_ at \_\_\_\_\_ minutes

Start Time: 0955  
End Time: 1030  
 Bailer  Pump  
Pump Type: typhoon  
Well Diameter: 2 inches  
1x Well Volume: 1.12 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
0955	0	7.88	12.7	100.5	6.71	6.64	15.7	11.45
1000	1.0	7.57	12.8	114.8	1.24	6.15	17.1	11.46
1005	2.0	7.48	12.9	116.6	1.22	6.05	14.4	11.45
1010	3.0	7.45	13.0	116.6	1.21	6.06	13.2	11.45
1015	4.0	7.43	13.0	116.3	1.21	6.06	13.3	11.45
1020	5.0	7.43	13.0	116.6	1.20	6.09	12.4	11.45
1025	6.0	7.43	13.0	116.3	1.20	6.10	12.5	11.45
1030	7.0	7.43	13.0	116.3	1.20	6.11	11.9	11.45
Final Sample Data:		7.43	13.0	116.3	1.20	6.11	11.9	11.45

Sample ID: MPI-2SR-EXTB  
Sample Time: 1032

Duplicate?   
MS/MSD?  Dupe Samp ID: \_\_\_\_\_

Analyses:  SVOCs  CLP  
 SVOCs  SW846  
 PCBs  Drink. Wtr.  
 Metals  8260C  
Sampler(s): S. Craig, L. Reed



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## WELL PURGE & SAMPLE RECORD

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

Well ID: ESI-2R

EEEPC Project No.: 10C 3074.0011.04

Date: 10/26/15

Initial Depth to Water: 13.29 feet TOIC

Start Time: 1057

Total Well Depth: 19.04 feet TOIC

End Time: 1132

Depth to Pump: 18.04 feet TOIC

Bailer  Pump

Initial Pump Rate: 200 mLpm gpm

Pump Type: Hyphom

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

Well Diameter: 2 inches

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

1x Well Volume: 0.94 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1057	0	6.90	11.4	-54.6	2.97	2.0	789	13.31
1102	1	6.86	11.8	-55.8	3.45	1.74	700	13.31
1107	2	6.87	12.1	-37.9	2.90	2.22	87	13.31
1112	3	6.85	12.5	-22.9	2.44	2.69	79.3	13.31
1117	4	6.85	12.4	-18.9	2.47	2.66	61.5	13.31
1122	5	6.85	12.5	-11.1	2.45	2.67	34.5	13.31
1127	6	6.85	12.5	-10.1	2.47	2.68	26.7	13.31
1132	7	6.85	12.5	-7.5	2.41	2.69	24.2	13.31
Final Sample Data:		6.85	12.5	-7.5	2.41	2.69	24.2	13.31

Sample ID: ESI-2R-OCT15

Duplicate?

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

Sample Time: 11:40

MS/MSD?

Analyses: Methods: Comments: \_\_\_\_\_

VOCs  CLP \_\_\_\_\_

SVOCs  SW846 \_\_\_\_\_

PCBs  Drink. Wtr. \_\_\_\_\_

Metals  82600 \_\_\_\_\_

\_\_\_\_\_  \_\_\_\_\_ Sampler(s): S. Craig L. Reed



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: MCC's

Well ID: EE-2

EEPC Project No.: 10C3074.00011.03

Date: 10/26/15

Initial Depth to Water: 12.88 feet TOIC

Start Time: 13:20

Total Well Depth: 31.75 feet TOIC

End Time: 14:35

Depth to Pump: 30.75 feet TOIC

Bailer  Pump

Initial Pump Rate: 200 gpm / gpm

Pump Type: Typhoon

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

Well Diameter: 2 inches

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

1x Well Volume: 3.07 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm/mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
13:20	0	7.27	16.0	-74.5	3.07	5.70	71000	12.96
13:25	1.0	7.22	15.6	-85.0	3.10	0.63	71000	12.93
13:30	2	7.21	15.7	-78.3	3.11	0.47	71000	12.90
13:35	3	7.21	15.6	-75.3	3.13	0.44	71000	12.90
13:40	4	7.21	15.5	-76.7	3.12	0.50	71000	12.90
13:45	5	7.20	15.4	-80.0	3.14	0.32	152	12.90
13:50	6	7.20	15.4	-88.4	3.15	0.37	162	12.90
13:55	7	7.20	15.3	-73.4	3.16	0.40	159	12.90
14:00	8	7.20	15.2	-99.6	3.16	0.35	88.3	12.90
14:05	9	7.20	15.1	-102.2	3.16	0.36	88.7	12.90
14:10	10	7.20	15.0	-105.2	3.15	0.25	64.3	12.90
14:15	11	7.20	15.0	-104.6	3.15	0.25	55.9	12.91
14:20	12	7.20	15.3	-86.9	3.15	0.22	50.5	12.90
14:25	13	7.19	15.3	-89.7	3.15	0.21	43.3	12.90
14:30	14	7.19	15.2	-96.3	3.15	0.21	37.2	12.90
14:35	15	7.19	15.2	-95.2	3.15	0.21	36.8	12.90
Final Sample Data:		7.19	15.2	-95.2	3.15	0.21	36.8	12.90

Sample ID: EE-2-0115

Duplicate?

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

Sample Time: 14:40

MS/MSD?

Analyses: Methods: \_\_\_\_\_ Comments: \_\_\_\_\_

- VOCs  CLP
  - SVOCs  SW846
  - PCBs  Drink. Wtr.
  - Metals  82100
  - \_\_\_\_\_  \_\_\_\_\_
- Sampler(s): S. Craig L. Rowan



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**WELL PURGE & SAMPLE RECORD**

Site Name/Location: NFC's / East Aurora

Well ID: MPI-4I

EEEPCC Project No.: 10C3074.0011.03

Date: 10/26/15

Initial Depth to Water: 11.73 feet TOIC

Start Time: 1457

Total Well Depth: 41.91 feet TOIC

End Time: 1557

Depth to Pump: 40.91 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: 4.9 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm, mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1457	0	7.69	12.7	102.7	0.651	3.75	12.32	11.99
1502	1.0	7.21	12.6	129.6	0.66	3.21	10.28	11.99
1507	2.0	7.01	12.5	140.1	0.67	3.09	8.12	11.99
1512	3.0	6.91	12.6	142.9	0.68	3.02	7.67	11.99
1517	4.0	6.84	12.4	143.1	0.70	2.98	6.55	11.99
1522	5.0	6.87	12.4	139.8	0.71	2.97	6.58	11.99
1527	6.0	6.78	12.3	111.2	0.75	2.82	7.98	11.99
1532	7.0	6.82	12.3	-40.3	1.48	1.49	7.78	11.99
1537	8.0	6.96	12.3	-91.3	1.76	1.12	7.95	11.99
1542	9.0	7.07	12.4	-112.3	2.03	0.81	5.07	11.99
1547	10.0	7.06	12.4	-125.3	2.29	0.60	3.95	11.99
1552	11.00	7.14	12.4	-128.5	2.31	0.58	3.57	11.99
1557	12.0	7.18	12.4	-133.1	2.37	0.55	2.78	11.99
				see				
<b>Final Sample Data:</b>		7.18	12.4	-133.1	2.37	0.55	2.78	11.99

Sample ID: MPI-4I-OCT15

-Duplicate?

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

Sample Time: 1559

MS/MSD?

Analyses: \_\_\_\_\_ Methods: \_\_\_\_\_ Comments: \_\_\_\_\_

- VOCs  CLP
- SVOCs  SW846
- PCBs  Drink. Wtr.
- Metals  8260C
- \_\_\_\_\_  \_\_\_\_\_

Sampler(s): S. Craig, L. Roedl



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## WELL PURGE & SAMPLE RECORD

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

Well ID: MPI-65

EEEP Project No.: 10C 3074.0011.04

Date: 10/07/15

Initial Depth to Water: 11.35 feet TOIC

Start Time: 0900

Total Well Depth: 21.45 feet TOIC

End Time: 0945

Depth to Pump: 20.45 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: 1.64 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm / mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
0900	0	6.46	12.7	-148.1	5.41	2.72	14.3	11.38
0905	1.0	6.54	12.7	-165.8	5.40	1.44	11.16	11.39
0910	2.0	6.60	13.0	-180.5	5.41	1.33	8.74	11.39
0915	3.0	6.60	12.9	-198.5	5.46	1.10	7.38	11.39
0920	4.0	6.59	12.7	-210.6	5.47	1.05	7.13	11.40
0925	5.0	6.56	12.5	-222.9	5.60	1.00	5.90	11.40
0930	6.0	6.53	12.6	-231.4	5.12	1.04	5.02	11.40
0935	7.0	6.51	12.6	-237.8	5.32	0.99	4.93	11.40
0940	8.0	6.49	12.5	-242.6	5.29	1.00	4.12	11.40
0945	9.0	6.48	12.6	-247.7	5.28	1.01	3.81	11.40
<del>300</del>								
Final Sample Data:		6.48	12.6	-247.7	5.28	1.01	3.81	11.40

Sample ID: MPI-65-OCT15

Duplicate?

Dupe Samp ID: MPI-65-OCT15-Q

Sample Time: 0948

MS/MSD?

Analyses: Methods:

Comments: Needs new J-plug

VOCs

CLP

SVOCs

SW846

PCBs

Drink. Wtr.

Metals

8260C

Sampler(s): S. Craig, L. Roedl



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## WELL PURGE & SAMPLE RECORD

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

Well ID: PZ-8C

EEEPC Project No.: 10P3074.0011.04

Date: 10/27/15

Initial Depth to Water: 7.29 feet TOIC

Start Time: 1005

Total Well Depth: 29.40 feet TOIC

End Time: 1030

Depth to Pump: 28.40 feet TOIC

Bailer  Pump

Initial Pump Rate: 200 (mLpm) gpm

Pump Type: Jyphoon

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

Well Diameter: 2 inches

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

1x Well Volume: 3.60 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1005	0	7.29	11.0	-169.1	3.73	1.65	17.1	7.71
1010	1.0	7.20	11.2	-193.4	3.73	0.58	12.08	7.90
1015	2.0	7.18	11.4	-178.9	3.73	0.40	9.00	7.90
1020	3.0	7.18	11.4	-188.4	3.73	0.37	7.79	7.94
1025	4.0	7.18	11.4	-188.9	3.72	0.38	6.21	7.94
1030	5.0	7.18	11.4	-189.5	3.71	0.38	5.62	7.94
Final Sample Data:		7.18	11.4	-189.5	3.71	0.38	5.62	7.94

Sample ID: PZ-8C-OCT15

Duplicate?

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

Sample Time: 1033

MS/MSD?

### Analyses:

### Methods:

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

VOCs

CLP

SVOCs

SW846

PCBs

Drink. Wtr.

Metals

8260C

\_\_\_\_\_

\_\_\_\_\_

Sampler(s): S. Craig, L. Reed



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## WELL PURGE & SAMPLE RECORD

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

Well ID: PZ-6A

EEEPC Project No.: 10C3074.C011.04

Date: 10/24/15

Initial Depth to Water: 11.78 feet TOIC

Start Time: 1055

Total Well Depth: 28.91 feet TOIC

End Time: 1135

Depth to Pump: 27.91 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: 2.79 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1055	0	7.37	12.7	-104.6	3.38	0.75	84.3	12.10
1100	1.0	7.31	12.8	-81.1	3.41	0.53	83.2	12.10
1105	2.0	7.28	12.9	-91.8	3.49	0.42	105.1	12.10
1110	3.0	7.26	12.9	-97.3	3.49	0.37	47.0	12.10
1115	4.0	7.25	12.8	-100.4	2.67	0.35	29.3	12.12
1120	5.0	7.24	12.8	-103.4	3.87	0.54	26.2	12.12
1125	6.0	7.23	12.8	-105.2	3.79	0.37	17.5	12.12
1130	7.0	7.23	12.8	-106.7	3.79	0.31	14.8	12.12
1135	8.0	7.23	12.8	-106.3	3.79	0.29	12.9	12.12
<i>Stop</i>								
Final Sample Data:		7.23	12.8	-106.3	3.79	0.29	12.9	12.12

Sample ID: PZ-6A-OCT15

Duplicate?

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

Sample Time: 1137

MS/MSD?

Analyses: \_\_\_\_\_ Methods: \_\_\_\_\_ Comments: \_\_\_\_\_

- VOCs  CLP
  - SVOCs  SW846
  - PCBs  Drink. Wtr.
  - Metals  8260C
  - \_\_\_\_\_  \_\_\_\_\_
- Sampler(s): S. Craig, L. Reed



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: NIC.C'S / East Aurora

Well ID: MPI-45

EEEPCC Project No.: 1003074.0011.04

Date: 10/27/15

Initial Depth to Water: 10.43 feet TOIC

Start Time: 1300

Total Well Depth: 26.72 feet TOIC

End Time: 1335

Depth to Pump: 19.72 feet TOIC

Bailer  Pump

Initial Pump Rate: 200 (ml/pm) / gpm

Pump Type: typhoon

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

Well Diameter: 2 inches

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

1x Well Volume: 1.67 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1300	0	7.02	13.2	-4.7	6.94	2.54	6.7	10.97
1305	1.0	6.95	13.3	-24.4	6.96	0.54	42.8	11.10
1310	2.0	6.96	13.4	-42.5	6.97	0.39	24.4	11.15
1315	3.0	6.97	13.5	-64.5	6.94	0.28	21.4	11.21
1320	4.0	6.97	13.5	-68.1	6.94	0.26	21.9	11.21
1325	5.0	6.98	13.5	-76.1	6.96	0.24	22.1	11.21
1330	6.0	6.98	13.5	-79.8	6.95	0.23	14.2	11.21
1335	7.0	6.99	13.5	-82.5	6.96	0.23	8.71	11.21
<i>Stop</i>								
Final Sample Data:		6.99	13.5	-82.5	6.96	0.23	8.71	11.21

Sample ID: MPI-45-00115

Duplicate?

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

Sample Time: 1338

MS/MSD?

Analyses: \_\_\_\_\_ Methods: \_\_\_\_\_ Comments: \_\_\_\_\_

- VOCs  CLP
  - SVOCs  SW846
  - PCBs  Drink. Wtr.
  - Metals  8260C
  - \_\_\_\_\_  \_\_\_\_\_
- Sampler(s): S. Craig, L. Reed





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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: MPE-15B

EEEP Project No.: 100 3074 0011.04

Date: 10/27/15

Initial Depth to Water: 10.12 feet TOIC

Start Time: 1402

Total Well Depth: 18.30 feet TOIC

End Time: 1447

Depth to Pump: 17.30 feet TOIC

Bailer  Pump

Initial Pump Rate: 200 (mL/pm) / gpm

Pump Type: typhoon

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

Well Diameter: 2 inches

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

1x Well Volume: 1.33 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1402	0	7.70	13.6	-18.4	1.56	3.83	11.12	10.69
1407	1.0	7.50	13.7	-5.9	1.55	2.84	7.14	10.74
1412	2.0	7.41	13.7	0.1	1.55	2.56	8.32	10.74
1417	3.0	7.38	13.5	-31.2	1.55	2.31	7.20	10.74
1422	4.0	7.34	13.5	-89.8	1.54	1.85	21.9	10.74
1427	5.0	7.28	13.3	-114.9	1.54	1.20	19.3	10.74
1432	6.0	7.27	13.3	-124.3	1.54	0.86	15.7	10.74
1437	7.0	7.24	13.3	-133.8	1.54	0.62	11.8	10.74
1442	8.0	7.23	13.3	-136.2	1.54	0.60	10.45	10.74
1447	9.0	7.23	13.3	-139.6	1.54	0.61	8.76	10.74
<i>Stop</i>								
/								
Final Sample Data:		7.23	13.3	-139.6	1.54	0.61	8.76	10.74

Sample ID: MPE-15B-0115

Duplicate?

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

Sample Time: 1450

MS/MSD?

Analyses: \_\_\_\_\_ Methods: \_\_\_\_\_ Comments: \_\_\_\_\_

- VOCs  CLP
- SVOCs  SW846
- PCBs  Drink. Wtr.
- Metals  8260e
- \_\_\_\_\_  \_\_\_\_\_

Sampler(s): S. Craig L. Roedel



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: WRC's / East Aurora  
 EEEPC Project No.: 10C3074.0011.01

Well ID: ESI-3  
 Date: 10/28/15

Initial Depth to Water: 11.29 feet TOIC  
 Total Well Depth: 15.21 feet TOIC  
 Depth to Pump: 14.21 feet TOIC  
 Initial Pump Rate: 700 ~~ml~~ mpm / gpm

Start Time: 0820  
 End Time: 0858

Bailor  Pump  
 Pump Type: Hyphoon

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

Well Diameter: 2 inches  
 1x Well Volume: 0.63 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
0820	0	8.00	12.5	22.4	1.10	1.99	57.3	11.31
0825	1.0	7.52	13.7	69.7	1.36	1.27	101.1	11.35
0830	2.0	7.38	14.3	85.0	1.33	0.90	58.6	11.35
0835	3.0	7.29	14.6	84.8	1.33	0.78	29.8	11.35
0840	4.0	7.27	14.7	79.0	1.32	0.73	16.3	11.35
0845	5.0	7.27	14.6	72.6	1.32	0.74	9.20	11.35
0850	6.0	7.27	14.7	65.7	1.32	0.76	5.92	11.35
0855	7.0	7.28	14.7	61.2	1.32	0.78	4.21	11.35
<i>See</i>								
Final Sample Data:		7.28	14.7	61.2	1.32	0.78	4.21	11.35

Sample ID: ESI-3-OCT15  
 Sample Time: 0857

Duplicate?   
 MS/MSD?  Dupe Samp ID: \_\_\_\_\_

Analyses:  VOCs  SVOCs  PCBs  Metals  
 Methods:  CLP  SW846  Drink. Wtr.  8260C

Comments: \_\_\_\_\_  
 Sampler(s): S. Craig, L. Reed



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## WELL PURGE & SAMPLE RECORD

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

Well ID: MPE-FIR

EEEP Project No.: 1003074.0011.04

Date: 10/28/15

Initial Depth to Water: 11.29 feet TOIC

Start Time: 0914

Total Well Depth: 36.28 feet TOIC

End Time: 0959

Depth to Pump: 31.28 feet TOIC

Bailer  Pump

Initial Pump Rate: 200 (ml) gpm

Pump Type: Lynxon

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

Well Diameter: 2 inches

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

1x Well Volume: 4.4 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
0914	0	7.30	12.5	72.4	3.06	2.12	13.9	11.71
0919	1.0	7.54	13.0	62.7	3.56	0.51	26.9	12.01
0924	2.0	7.27	13.0	-15.3	3.59	0.52	21.0	12.02
0929	3.0	7.12	13.1	-49.8	3.60	1.04	18.6	12.02
0934	4.0	7.10	13.0	-68.9	3.59	0.71	16.0	12.02
0939	5.0	7.04	13.0	-82.7	3.57	0.58	12.6	12.02
0944	6.0	7.04	13.2	-89.4	3.54	0.47	12.8	12.02
0949	7.0	7.10	13.2	-92.3	3.53	0.41	15.3	12.02
1004-0954	8.0	7.10	13.2	-92.3	3.51	0.38	19.5	12.02
1009-0959	9.0	7.10	13.2	-92.2	3.51	0.36	21.3	12.02
<i>See</i>								
Final Sample Data:		7.10	13.2	-92.2	3.51	0.36	21.3	12.02

Sample ID: MPE-FIR-0015

Duplicate?

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

Sample Time: 1001

MS/MSD?

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

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

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

VOCs

CLP

SVOCs

SW846

PCBs

Drink. Wtr.

Metals

8260C

\_\_\_\_\_

Sampler(s): S. Craig, L. Reed



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## WELL PURGE & SAMPLE RECORD

Site Name/Location: MFC's East Aurora

Well ID: MW-11

EEEPC Project No.: 10C30740011.04

Date: 10/28/15

Initial Depth to Water: 9.99 feet TOIC

Start Time: 1307

Total Well Depth: 16.15 feet TOIC

End Time: 1347

Depth to Pump: 17.15 feet TOIC

Bailer  Pump

Initial Pump Rate: 200 (mLpm) / gpm

Pump Type: Hyphoom

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

Well Diameter: 2 inches

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

1x Well Volume: \_\_\_\_\_ gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1307	0	7.53	14.9	81.4	3.53	2.96	24.7	9.99
1312	1.0	7.47	14.7	78.2	2.17	1.93	32.1	9.99
1317	2.0	7.43	14.7	75.0	1.46	1.25	39.6	9.99
1322	3.0	7.37	14.6	70.3	1.65	1.29	16.5	9.99
1327	4.0	7.35	14.6	64.5	1.64	1.31	14.3	9.99
1332	5.0	7.34	14.6	59.9	1.65	1.34	10.17	9.99
1337	6.0	7.34	14.6	56.1	1.66	1.34	9.72	9.99
1342	7.0	7.33	14.6	54.3	1.67	1.38	8.00	9.99
1347	8.0	7.33	14.6	53.5	1.66	1.39	7.21	9.99
<i>866</i>								
Final Sample Data:		7.33	14.6	53.5	1.66	1.39	7.21	9.99

Sample ID: MW-11-OCT15

Duplicate?

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

Sample Time: 1350

MS/MSD?

### Analyses:

### Methods:

- VOCs
- SVOCs
- PCBs
- Metals
- \_\_\_\_\_

- CLP
- SW846
- Drink. Wtr.
- 8260C
- \_\_\_\_\_

Comments: Well is located 10' straight out from side of Snap Fitness; 19'2" from green Standup pipe in grass next to building (Between first air conditioner and basement window)

Sampler(s): S. Craig, L. Roedl

**ATTACHMENT B**  
**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: December 09, 2015</b>	<b>Completed by: Lynne Parker</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:

Project ID	Lab Work Order	Laboratory
10C3074.0011.04	P1550 P1570	Eurofins: Spectrum Analytical

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/MSD	ID Corrections
P1550	WG	EE-3-OCT15	P1550-12	10/23/2015 10:02			
P1550	WG	ESI-6-OCT15	P1550-13	10/23/2015 10:15			
P1550	WG	MPI-13BR-OCT15	P1550-08	10/22/2015 10:39			MPI-13B-R-OCT15
P1550	WG	MPI-14BR-OCT15	P1550-09	10/22/2015 12:02			MPI-14B-R-OCT15
P1550	WG	MPI-1S-OCT15	P1550-15	10/23/2015 11:55			
P1550	WG	MPI-3S-OCT15	P1550-14	10/23/2015 11:38		MS/MSD	
P1550	WG	MPI-5S-OCT15	P1550-05	10/21/2015 14:41			
P1550	WG	MPI-8SR-OCT15	P1550-04	10/21/2015 12:50			MPI-8S-R-OCT15
P1550	WG	MPI-9SR-OCT15	P1550-10	10/22/2015 13:39			MPI-9S-R-OCT15
P1550	WG	MW-7-OCT15	P1550-06	10/22/2015 09:29			
P1550	WG	MW-7-OCT15-Q	P1550-07	10/22/2015 09:29			
P1550	WG	MW-8-OCT15	P1550-02	10/21/2015 11:03			
P1550	WG	PZ-3B-OCT15	P1550-11	10/22/2015 14:51			
P1550	WG	PZ-5B-OCT15	P1550-03	10/21/2015 12:07			
P1550	WQ	TB20151021	P1550-12	10/21/2015 09:30			TB-20151021
P1570	WG	EE-2-OCT15	P1570-04	10/26/2015 14:40			
P1570	WG	ESI-2R-OCT15	P1570-03	10/26/2015 11:40			ESI-2-R-OCT15
P1570	WG	ESI-3-OCT15	P1570-13	10/28/2015 08:57		MS/MSD	
P1570	WG	ESI-5R-OCT15	P1570-01	10/26/2015 09:32			ESI-5-R-OCT15
P1570	WG	MPI-15B-OCT15	P1570-12	10/27/2015 14:50			
P1570	WG	MPI-2SR-OCT15	P1570-02	10/26/2015 10:32			MPI-2S-R-OCT15
P1570	WG	MPI-4I-OCT15	P1570-05	10/26/2015 15:59			
P1570	WG	MPI-4S-OCT15	P1570-11	10/27/2015 13:38			
P1570	WG	MPI-6S-OCT15	P1570-06	10/27/2015 09:48			
P1570	WG	MPI-6S-OCT15-Q	P1570-07	10/27/2015 09:48			

<b>Data Usability Summary Report</b>	<b>Project: Mr. C's Dry Cleaners Site Annual Groundwater Sampling</b>
<b>Date Completed: December 09, 2015</b>	<b>Completed by: Lynne Parker</b>

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/MSD	ID Corrections
P1570	WG	MPI-7IR-OCT15	P1570-14	10/28/2015 10:01			MPI-7I-R-OCT15
P1570	WG	MW-11-OCT15	P1570-21	10/28/2015 13:50			
P1570	WG	PW-2-OCT15	P1570-16	10/28/2015 10:35			
P1570	WG	PW-3-OCT15	P1570-15	10/28/2015 10:30			
P1570	WG	PW-4-OCT15	P1570-18	10/28/2015 10:55			
P1570	WG	PW-5-OCT15	P1570-17	10/28/2015 10:50			
P1570	WG	PW-6-OCT15	P1570-19	10/28/2015 11:15			
P1570	WG	PW-8-OCT15	P1570-20	10/28/2015 11:21			
P1570	WG	PZ-6A-OCT15	P1570-09	10/27/2015 11:37			
P1570	WG	PZ-8C-OCT15	P1570-08	10/27/2015 10:33			
P1570	WQ	TB-20151026	P1570-10	10/26/2015 08:00			
P1570	WQ	TW-20151028	P1570-22	10/28/2015 08:10			TB-20151028

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
P1550	WG	SW8260C	Volatile Organics	14	N/FD
P1550	WG	SW8260C	Volatile Organics	1	TB
P1570	WG	SW8260C	Volatile Organics	20	N/FD
P1570	WG	SW8260C	Volatile Organics	2	TB

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes. 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. The cooler associated with SDG P1550 was received at 1.0°C. There was no indication of the samples being frozen. There is no impact to data usability.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs waters only Equipment Blank - 1/ set of samples per day?	No. 2 field duplicate per 32 samples 2 MS/MSD per 32 samples 1 trip blank/cooler Rinsate blanks were not collected.
Case narrative present and complete?	Yes.
Any holding time violations (See table below)?	No.

<b>Data Usability Summary Report</b>	<b>Project: Mr. C's Dry Cleaners Site Annual Groundwater Sampling</b>
<b>Date Completed: December 09, 2015</b>	<b>Completed by: Lynne Parker</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?	Yes.
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.	Yes.
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.	No. See Table 5. Acetone and/or 2-hexanone were recovered high in several of the LCSs. The analytes are poor performing compounds in a multi-parameter spike. Most of the associated results were non-detect; therefore, no qualification was required. However, acetone was detected in samples MPI-6S-OCT15 and MPI-6S-OCT15-Q; therefore, the results were J qualified as estimated.
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?	No. Methyl acetate exceeded 20% RSD in the initial calibration of instrument V1 on 10/27/15. Bromomethane exceeded 20% RSD in the initial calibration of instrument V10 on 11/02/15, and the initial calibration of instrument V10 on 11/06/15. The analytes are poor performing compounds in a multi-parameter spike. Region 2 EPA SOP HW-33 allows up to 40% RSD for poor performing compounds. The analytes were not detected in the samples, and no qualification of the data was made.



<b>Data Usability Summary Report</b>	<b>Project: Mr. C's Dry Cleaners Site Annual Groundwater Sampling</b>
<b>Date Completed: December 09, 2015</b>	<b>Completed by: Lynne Parker</b>

<b>Volatile Organics by GC/MS</b>	
<b>Description</b>	<b>Notes and Qualifiers</b>
Is continuing calibration for target compounds < 20.5% D.	<p>No.</p> <p>The following analytes were outside 20% D in the CCV's listed below:  V1N8232: acetone (31.8%), 2-butanone (34.8%), 2-hexanone (20.1%).  V1N8283: 1,3-dichlorobenzene (-21.5%).  V8E2181: acetone (36.4%)  V8E2242: chloromethane (-20.8%), bromomethane (-28.1)  V8E2212: bromomethane (-32.5),  V8E2302: chloroethane (-20.4), 4-methyl-2-pentanone (-21.9), 2-hexanone (-22.9), 1,1,2,2-tetrachloroethane (-20.4), 1,2-dibromo-3-chloropropane (-20.4), methyl acetate (-24.3)</p> <p>Acetone, 2-butanone, 2-hexanone, bromomethane, chloromethane, 4-methyl-2-pentanone, 2-dibromo-3-chloropropane, and methyl acetate are poor performing compounds in a multi-parameter spike and allowed up to 40 %D in CCVs per Region 2 EPA SOP HW-33.  1,1,2,2-tetrachloroethane and 1,3-dichlorobenzene are normal analytes and allowed up to 25 %D in CCVs per Region 2 EPA SOP HW-33.  No qualification of the data was made.</p>
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	<p>Yes. See Table 6</p> <p>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: ESI-6-OCT15, PZ-5B-OCT15, MW-7-OCT15, and MW-7-OCT15-Q.</p>
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)?	<p>No.</p> <p>Cis-1,2-dichloroethene and vinyl chloride exhibited poor precision in the field duplicate of MPI-6S-OCT15. The results were qualified J as estimated.</p>

<b>Summary of Potential Impacts on Data Usability</b>
<ul style="list-style-type: none"> <li>• The following samples were diluted and reported with elevated reporting limits for all analytes: ESI-6-OCT15, PZ-5B-OCT15, MW-7-OCT15, and MW-7-OCT15-Q. There are instances where the elevated reporting limit exceeds the screening level; therefore, analyte concentrations may exceed the screening limit.</li> <li>• Cis-1,2-dichloroethene and vinyl chloride were qualified J as estimated due to poor precision in the field duplicate of MPI-6S-OCT15.</li> <li>• Acetone was qualified J as estimated in MPI-6S-OCT15 and MPI-6S-OCT15-Q due to elevated recovery in the associated LCSs.</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: December 09, 2015</b>	<b>Completed by: Lynne Parker</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**

None

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

None

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

Method	Sample ID	Analyte	Rec.	Low Limit	High Limit	Sample Qualifier
SW8260	LCS-83425_P1550	2-Hexanone	132	55	130	None: High & ND
SW8260	LCS-83425_P1550	Acetone	164	40	140	None: High & ND
SW8260	LCS-83475_P1570	Acetone	150	40	140	J Flag Detects
SW8260	LCS-83482_P1570	Acetone	150	40	140	J Flag Detects
SW8260	LCS-83507_P1570	Acetone	144	40	140	None: High & ND

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

Sample ID	Lab ID	Method	Sample Type	Action
MW-11-OCT15	P1570-21ADL	SW8260	GW	40X– Sample diluted to bring PCE within the calibration curve. Only the exceeding analyte was reported at the dilution.
ESI-6-OCT15	P1550-13A	SW8260	GW	5X– Sample diluted to bring target analytes within the calibration curve. Elevated reporting limits provided.
PZ-5B-OCT15	P1550-03A	SW8260	GW	20X– Sample diluted to bring target analytes within the calibration curve. Elevated reporting limits provided.

<b>Data Usability Summary Report</b>	<b>Project: Mr. C's Dry Cleaners Site Annual Groundwater Sampling</b>
<b>Date Completed: December 09, 2015</b>	<b>Completed by: Lynne Parker</b>

Sample ID	Lab ID	Method	Sample Type	Action
PW-5-OCT15	P1570-17ADL	SW8260	GW	20X– Sample diluted to bring PCE within the calibration curve. Only the exceeding analyte was reported at the dilution.
PZ-6A-OCT15	P1570-09ADL	SW8260	GW	8X– Sample diluted to bring cis-1,2-DCE and PCE within the calibration curve. Only the exceeding analyte was reported at the dilution.
MPI-4I-OCT15	P1570-05ADL	SW8260	GW	8X– Sample diluted to bring cis-1,2-DEC and MTBE within the calibration curve. Only the exceeding analyte was reported at the dilution.
EE-2-OCT15	P1570-04ADL	SW8260	GW	2X– Sample diluted to bring cis-1,2-DEC and TCE within the calibration curve. Only the exceeding analyte was reported at the dilution.
PW-4-OCT15	P1570-18ADL	SW8260	GW	20X– Sample diluted to bring PCE within the calibration curve. Only the exceeding analyte was reported at the dilution.
PW-2-OCT15	P1570-16ADL	SW8260	GW	20X– Sample diluted to bring PCE within the calibration curve. Only the exceeding analyte was reported at the dilution.
PW-6-OCT15	P1570-21ADL	SW8260	GW	50X– 20X– Sample diluted to bring cis-1,2-DCE, PCE and TCE within the calibration curve. Only the exceeding analyte was reported at the dilution.
MW-7-OCT15	P1550-06A	SW8260	GW	10X– Sample diluted to bring target analytes within the calibration curve. Elevated reporting limits provided.
MW-7-OCT15-Q	P1550-07A	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	MPI-6S-OCT15	MPI-6S-OCT15-Q	RPD	RPD Rating	Sample Qual
SW8260	Acetone	ug/L	GW	5.0	12	8.4	35.3%	Good	None
SW8260	cis-1,2-Dichloroethene	ug/L	GW	5.0	18	35	64.2%	Poor	J Flag
SW8260	trans-1,2-Dichloroethene	ug/L	GW	5.0	ND	1.0	NC	--	--
SW8260	Vinyl chloride	ug/L	GW	5.0	14	35	85.7%	Poor	J Flag

<b>Data Usability Summary Report</b>	<b>Project: Mr. C's Dry Cleaners Site Annual Groundwater Sampling</b>
<b>Date Completed: December 09, 2015</b>	<b>Completed by: Lynne Parker</b>

Method	Analyte	Unit	Matrix	PQL	MW-7-OCT15	MW-7-OCT15-Q	RPD	RPD Rating	Sample Qual
SW8260C	Tetrachloroethene	ug/L	GW	5.0	840	860	2.4%	Good	None

**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