AECOM Environment

Prepared for:
NYSDEC
Albany, NY

Prepared by:
AECOM
Chestnut Ridge, NY
60269807
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Annual Long Term Monitoring Report

For 2015 Utility Manufacturing/Wonder King (Site No. 130043H)

October 28, 2015

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1.0 Introduction

AECOM Technical Services Northeast, Inc. (AECOM) has been issued Work Assignment #D007626-16 under the New York State Department of Environmental Conservation (NYSDEC) State Superfund Standby Program. The site under this work assignment is Utility Manufacturing/Wonder King (Utility Manufacturing), Operable Unit No. 2 (Site No. 130043H). The location of the site is shown on Figure 1.

The scope of work for this project consisted of collecting a round of groundwater samples from nine wells in 2013. The work was performed in accordance with NYSDEC Division of Environmental Remediation Final DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC, May 2010). The annual long term monitoring report for 2013 was converted to a periodic review report, which was submitted December 30, 2013. The scope of work was amended on May 16, 2014 to include annual long term groundwater monitoring and reporting for 2014 through 2017.

1.1 Background

The Utility Manufacturing site is located at 700-712 Main Street (south side) between Bond Street and Frost Street, approximately 500 feet (ft) north of Old Country Road in the New Cassel Industrial Area (NCIA), Westbury, Nassau County, New York. The site and study area for Operable Unit No. 2 are located within the NCIA (Figure 1), which is a 170-acre industrial and commercial area on the north side of Old Country Road. The sites within the Operable Unit No. 2 consist mostly of commercial and industrial operations including an auto repair facility, auto garage, office spaces, warehouse, and machine tool shop. The Former Applied Fluidics site, No. 130043M, is located approximately 750 feet east of the Utility Manufacturing site. The 89 Frost Street site, No. 130043L, and the Former Autoline Automotive site, No. 130043I, are adjacent to the Former Applied Fluidics site. All three of these sites are Class 2 sites.

1.2 Previous Investigations Conducted at the Utility Manufacturing Site

AECOM completed the initial scope of work for this project including project scoping, preparation of plans and specifications, oversight of construction services including sub-slab depressurization system installation at one facility and installation of six monitoring wells, and one round of groundwater and indoor air sampling under Work Assignment #D004436-32 issued by NYSDEC. The work was performed in accordance with NYSDEC Division of Environmental Remediation Final DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC, May 2010) and the Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH; Final, October 2006). The work conducted under the initial scope (well installation, groundwater sampling, and indoor air sampling) was completed in 2010 and documented in the Final Annual Long Term Monitoring Report (AECOM, 2011). In August 2011, two rounds of monitoring well sampling and vapor intrusion sampling at two structures was conducted. One round of monitoring well sampling and soil vapor intrusion sampling at one structure conducted in 2011 was documented in the Annual Long Term Monitoring Report for 2011 (AECOM, 2012a). One round of monitoring well sampling in 2012 was documented in the Annual Long Term Monitoring Report for 2012 (AECOM, 2012b). The Periodic Review Report Review Period November 27, 2012 to December 14, 2013 (AECOM, 2013) which was prepared for the site included documentation of one round of groundwater sampling in 2013.

A summary of the site investigations conducted for the Utility Manufacturing site between 1986 and 2007 is provided in the Record of Decision (ROD) dated March 2008 for Operable Unit No. 2 (NYSDEC, 2008).

1.3 Selected Remedy

A ROD presenting the selected remedy for Operable Unit No. 2 was finalized by NYSDEC in March 2008. The elements of the selected remedy are as follows:

1. Implementation of a remedial design program to provide the details necessary for the construction, operation, maintenance, and monitoring of the remedial program.
2. Installation of sub-slab depressurization systems in three off-site buildings that have vapor intrusion impacts.
3. Collection of periodic sub-slab vapor, indoor air and outdoor air samples at three properties where the potential for vapor intrusion exists. Periodic sampling will continue until sampling results indicate that continued sampling is no longer required.
4. Natural attenuation of groundwater contamination within the study area.
5. Imposition of an institutional control in the form of an environmental easement on the site that will require: (a) compliance with the approved site management plan; and (b) the property owner to complete and submit to NYSDEC (the Department) a periodic certification of institutional and engineering controls.
6. Development of a site management plan which will include the following institutional and engineering controls: (a) monitoring of groundwater, sub-slab vapor, indoor air and outdoor air; and (b) provisions for the continued proper operation and maintenance of the components of the remedy.
7. Provision of a periodic certification of institutional and engineering controls by the property owner, prepared and submitted by a professional engineer or such other expert acceptable to the Department, until the Department notifies the property owner in writing that this certification is no longer needed.
8. Continued operation of the components of the remedy until the remedial objectives have been achieved, or until the Department determines that continued operation is technically impracticable or not feasible.
9. Since the remedy results in untreated hazardous waste remaining at the site, a long-term monitoring program will be instituted. Up to nine monitoring wells will be sampled periodically for VOCs to track the progress of the natural attenuation. In addition, sub-slab vapor, indoor air and outdoor air samples will be obtained and analyzed for VOCs at three buildings with potential vapor intrusion impacts. This program will allow the effectiveness of the natural attenuation and soil vapor intrusion mitigation measures to be monitored and will be a component of the operation, maintenance, and monitoring for the site.

Vapor intrusion sampling at three structures (item 3) and groundwater monitoring sampling (item 9) were conducted in 2010 and documented in the Final Annual Long Term Monitoring Report for 2011 (AECOM, 2011). Of the three off-site buildings identified for installation of sub-slab depressurization systems (item 2), property managers for two of the structures (6 and 9) have declined to have the systems installed. NYSDEC has proposed to collect vapor intrusion samples from these structures instead. To date, the firm managing Structure 9 has declined to have the vapor intrusion samples collected. Subsequent testing at Structure 6 indicates an SSDS system is not required. Since finalizing the ROD, NYSDEC has determined that an environmental easement (item 5) is not needed for the site (NYSDEC, 2012). A site management plan (AECOM, 2012c) was approved for the site by NYSDEC in September 2012 (item 6). The groundwater sampling documented in this report was completed in accordance with the long-term monitoring requirements for the site (item 9).

2.0 Field Investigation

Groundwater sampling and collection of groundwater elevation measurements was conducted in May 2015. Groundwater samples were collected from the nine wells shown on Figure 2. Well construction data is provided in Table 1. A well inspection checklist was completed for each monitoring well sampled. Field forms are provided in Appendix A.

2.1 Groundwater Sampling

AECOM collected one round of samples from two wells installed for the off-site remedial investigation (MW1S and MW1D), six wells installed off-site in May 2010 (MW11S, MW11D, MW12S, MW12D, MW13S, and MW13D), and one well installed by Nassau County (NC-12). Well sampling forms showing compliance with EPA low-flow sampling procedures (EPA SOP, 1998) are provided in Appendix A. A bladder pump was used for sampling. The pump intake was set at the midpoint of the screened interval. Dedicated Teflon-lined tubing was used for all groundwater sample collection. Field measurements recorded during purging include flow rate, depth to water, temperature, pH, conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP) and turbidity. The measurements were recorded on a well sampling form. Measurements were collected approximately every five minutes. A flow-through cell was used to measure the parameters. Purging was considered complete when the indicator parameters stabilized over three consecutive readings. If the groundwater parameters did not stabilize, the samples were collected after two hours of purging. Stabilization parameters are:

- depth to water: less than 0.3 ft drawdown during purging;
- pH: ± 0.1
- conductivity: ± 3%
- DO: ± 10 % or less than 5 mg/L
- ORP: ±10 mV and
- Turbidity: ± 10 % or less than 5 (NTU)
- Temperature: ± 3 %.

During sample collection, the flow cell was disconnected and the sample tubing discharge was poured directly into the laboratory-supplied sample containers and field vials. Water samples were collected in pre-preserved bottles provided by the laboratory, cooled to 4ºC after collection, and shipped to the subcontracted laboratory for analysis of VOCs, dissolved iron (field filtered), sulfates, nitrates, carbon dioxide, and methane. All parameters other than VOCs are referred to as monitored natural attenuation (MNA) parameters. Analyses were performed by Pace Analytical Services, Inc. (formerly H2M Labs, Inc.), Melville, New York, a NYSDOH Environmental Laboratory Approval Program (ELAP) certified lab (ELAP ID 10478).

A round of water table elevation data for the monitoring wells was collected on May 27, 2015, prior to groundwater sampling. All wells were sampled between May 27, 2015 and May 28, 2015. The results are presented in Table 2. Groundwater elevations are shown on Figure 3 for the shallow wells and Figure 4 for the deep wells. The groundwater flow direction appears to be to the south.

3.0 Laboratory Analytical Results

3.1 Groundwater Samples

3.1.1 VOC Data

Groundwater samples were collected from nine wells and submitted for the following analyses: VOCs (EPA SW-846 Method 8260), dissolved iron (EPA SW-846 Method 6010B), sulfates (EPA 300.0), nitrates (EPA 353.2), carbon dioxide (EPA SM4500CO2 D), dissolved oxygen (EPA 360.2), and methane (EPA RSK-175). The VOC groundwater results are compared to the NYS Class GA groundwater criteria and presented in Table 3. VOC detections are summarized on Figure 5. A summary of concentrations exceeding the NYS Class GA groundwater criteria are provided below:

- Tetrachloroethene (PCE) was detected in all wells except MS12S and NC-12. The concentrations exceed the NYS Class GA criterion of 5 µg/L in three of the nine wells with concentrations of 6 µg/L (MW13S), 12 µg/L (MW1D), and 13 µg/L (MW11D);
- Trichloroethene (TCE) was detected in wells MW11D, MW12D, MW13S, MW13D, and MW1D. The concentrations exceed the NYS Class GA criterion of 5 µg/L in MW13D (11 µg/L) and MW1D (61 µg/L);
- Cis-1,2-dichloroethene (cis-1,2-DCE) was detected in all wells except MW12S, MW12D, and NC-12. The concentration exceeds the NYS Class GA criterion of 5 µg/L in MW13S (17 µg/L).
- Trans-1,2-dichloroethene was not detected in any of the wells;
- 1,1-Dichloroethene (1,1-DCE) was detected in MW11D, MW12D, MW13S, MW13D, and MW1D. The concentration exceeds the NYS Class GA criterion of 5 µg/L in MW1D (16 µg/L);
- 1,1,1-Trichloroethane (1,1,1-TCA) was detected in MW1D, MW12D, and MW13S. The concentrations are below the NYS Class GA criterion of 5 µg/L; and,
- 1,1-Dichloroethane (1,1-DCA) was detected in MW1D, MW11D, and MW13S. The concentration exceeds the NYS Class GA criterion of 5 µg/L in MW13S (10 µg/L).

The VOC concentrations for parameters with exceedances of the NY Class GA criteria are presented over time in Figure 6. Groundwater samples collected from monitoring wells MW1S and MW1D in 2005 for the remedial investigation (ERM, 2005) are also included. The concentrations were compared as follows:

- Shallow well concentration differs from the deeper well concentration by more than 5 µg/L;
- The concentration differs from the previous year by more than 5 µg/L; and,
- The concentration in the well is greater than the NY Class GA criterion (5 µg/L for each parameter) or greater than twice the NY Class GA criterion.

A description of the data collected in 2015 compared to data collected in 2014 is provided below.

For wells MW11S and MW11D, the current PCE concentration in the deep well is more than 5 µg/L higher than in the shallow well. The PCE concentration in MW11D is greater than the NY Class GA criterion of 5 µg/L (13 µg/L). The PCE concentration in MW11D increased in 2015 compared to the concentration in 2014. No other parameters have exceedances in these wells in 2014 and 2015.

For wells MW12S and MW12D, the 2014 and 2015 concentrations are below the NY Class GA criteria.

For wells MW13S and MW13D, the TCE concentration in the deep well is more than 5 µg/L higher than in the shallow well, and the TCE concentrations in the deep well is greater than twice the NY Class GA criterion. The TCE concentrations in the shallow and deep wells decreased more than 5 µg/L over the 2014 level. The cis-1,2-DCE concentration in the shallow well is more than 5 µg/L higher than in the deep well. The cis-1,2-DCE concentration in the shallow well has decreased more than 5 µg/L from the 2014 level.

For wells MW1S and MW1D, the concentrations are lower in the shallow well than in the deeper well by more than 5 µg/L for PCE, TCE, and 1,1-DCE. Concentrations are greater than twice the NY Class GA criterion of 5 µg/L for PCE, TCE, and cis-1,2-DCE in MW1D. The concentration TCE declined between 2014 and 2015 in well MW1D by more than 5 µg/L.

For NC-12, there were no VOC detections in 2014 or 2015.

The groundwater concentrations generally appear to be stabilizing over time. All concentrations are within 5 µg/L of the 2014 levels or have declined by more than 5 µg/L. There were no exceedances of criteria in MW-11S, MW12S, MW12D, MW1S or NC-12 in 2013, 2014 and 2015. The concentration of TCE has declined in MW1D since 2014. The VOC concentrations in MW13S and MW13D which are located farther to the west generally decreased compared to the 2014 levels.

3.1.2 MNA Data

The results for laboratory MNA parameters are provided in Table 4. The final field measurements of temperature and dissolved oxygen are also listed. The data were evaluated to determine whether reductive dechlorination is occurring.

Biologically-mediated reductive dechlorination of chlorinated VOCs occurs through a series of progressive biochemical reactions where chloride atoms are replaced by hydrogen atoms to sequentially dechlorinate the chlorinated ethenes.

PCE → TCE → DCE → vinyl chloride → ethene

1,1,1-TCA → 1,1-DCA → chloroethane → ethane

Because the chlorinated ethenes are acting as electron acceptors the availability of other electron acceptors will compete with the process. Therefore, reductive dechlorination is more efficient in reducing conditions (ORP less than -75 mV). Dissolved oxygen is a strong oxidizing agent (electron acceptor) so negligible levels of dissolved oxygen are necessary for the process to occur efficiently. In conditions sustaining anaerobic activities (dissolved oxygen less than 0.5 mg/L) nitrate, ferric iron and sulfate will act as electron acceptors that compete with reductive dechlorination. The anaerobic generation of methane (methanogenesis) during the biodegradation of organic carbon is an indication of a highly reducing environment. Furthermore, in order for most of the common bacteria to thrive, the groundwater must be circumneutral (pH between 6.0 and 8.5).

For microbial-mediated reactions, aerobic reactions are the most energetically favorable. As dissolved oxygen is consumed, microbes use electron acceptors in the order of reducing energy efficiencies (denitrification of nitrate, manganese reduction, ferric iron reduction, sulfate reduction,

carbon dioxide in methanogenesis). Biotic reductive dechlorination typically occurs most favorably in the ORP range needed for sulfate reduction or methanogenesis (i.e., below -100 mV).

- pH: Water quality measurements indicate that the groundwater is slightly acidic (pH 5.50 to 6.54), and five of the nine wells sampled have pH values less than pH 6.0. The low pH values observed are below the range indicated above and could limit biological natural attenuation processes.
- ORP: Water quality measurements collected in real time during the field sampling indicate that the groundwater conditions are generally oxidizing (ORP 205 to 314 mV) in all of the nine wells. Biotic reductive dechlorination does not occur under these oxidizing conditions.
- Dissolved Oxygen: Water quality measurements collected in real time and laboratory analyses for dissolved oxygen indicate that the monitoring wells have high levels of dissolved oxygen (lab values ranged from 3.48 to 22.4 mg/L). The availability of dissolved oxygen as an electron acceptor limits reductive dechlorination.
- Nitrate: was detected in all nine wells sampled (0.9 mg/L to 6.0 mg/L). Under the conditions required for reductive dechlorination, nitrate is converted to nitrite and ammonia through denitrification. Therefore, the presence of nitrate indicates unfavorable conditions for reductive dechlorination. Nitrate concentrations have been relatively stable from 2010 to 2015.
- Dissolved Iron: An increase in dissolved ferrous iron (Fe II) may indicate reducing conditions since it indicates the reduction of insoluble ferric iron (Fe III). Total dissolved iron was detected at very low concentrations (<1 mg/L) in all of the nine monitoring wells.
- Sulfate was detected in all nine wells sampled (10 mg/L to 45 mg/L). In the environment required for reductive dechlorination, sulfate reducing bacteria would convert sulfate to sulfide and sulfate concentrations would decrease. Such conditions would be favorable for reductive dechlorination of most of the chlorinated ethenes. Sulfate concentrations have been relatively stable from 2010 to 2015.
- Methane is a byproduct of microbial degradation using carbon dioxide as an electron acceptor, and the presence of methane is an indicator of reducing conditions in groundwater, such conditions would be optimal for reductive dechlorination. Methane was not detected above 1 mg/L in any of the nine monitoring wells sampling in May 2015.
- Carbon dioxide: An increase in carbon dioxide may provide an indication of microbial processes. Carbon dioxide was detected in all wells with concentrations ranging from 1,800 µg/L to 18,000 µg/L. These values are consistent with the previous sampling rounds.
- Daughter products are another indicator of reductive dechlorination processes, and increases in daughter products accompany decreases in parent VOCs as shown in the reactions above (i.e., increase in cis-1,2-DCE as TCE decreases). In addition, 1,1-DCA is an abiotic breakdown product of 1,1,1-TCA. Concentrations of TCE were detected in five of the nine wells and 1,2-DCE was detected in six of the nine monitoring wells. Concentrations of 1,1-DCA were detected in three of the nine monitoring wells. Daughter products of both PCE and 1,1,1-TCA have been relatively stable over time. In addition, chloroethane and vinyl chloride were not detected.

The concentrations for 2010 through 2015 are shown over time for VOCs exceeding the NYS Class GA Groundwater Criteria in Figure 6 and for methane, carbon dioxide, sulfate, nitrate, dissolved oxygen in Figure 7. From the evaluation of MNA analyses and water quality parameters in this section, there is no evidence suggesting that biological reductive dechlorination is occurring in site groundwater for the majority of the monitoring wells. The overall biogeochemical environment in the wells tends to favor aerobic bacteria. Reductions in concentrations of VOCs are mostly likely the result of dilution and dispersion and to a lesser extent sorption and volatilization. For bioremediation

of site VOCs to occur, the pH would need to be raised to circumneutral levels and groundwater would need to become more reducing.

4.0 Data Validation

Data validation was provided by Environmental Data Services, Inc. (EDS) of Williamsburg, Virginia, an independent chemist under subcontract to AECOM. Data usability summary reports (DUSRs) for each sample delivery group (SDG) are included in Appendix B.

Groundwater data from samples collected in May 2015 were reported by Pace Analytical Services, Inc., Melville, New York as one SDG, AECOM238. A total of 15 analyses were validated, including two trip blanks, one storage blank, one matrix spike/matrix spike duplicate (MS/MSD) pair, one field duplicate, and nine environmental samples.

AECOM238: There were no rejections of data. Overall, the data are acceptable for the intended purposes as qualified for the following deficiencies:

- Cis-1,2-Dichloroethene was qualified as estimated in one sample due to a high MS/MSD recovery.

- Two compounds (bromomethane and dichlorodifluoromethane) were qualified as estimated in all samples due to high continuing calibration percent difference values.

5.0 Conclusions and Recommendations

Groundwater sampling was performed at the Utility Manufacturing site in Westbury, NY with field work conducted in May 2015. A summary of the sampling effort is provided below:

- The groundwater flow direction appears to be to the south.
- All groundwater concentrations are within 5 µg/L of the 2014 levels or have declined by more than 5 µg/L. There were no exceedances of criteria in MW-11S, MW12S, MW12D, MW1S or NC-12 in 2013, 2014, or 2015.
- Groundwater concentrations in the shallow wells have decreased over time such that only cross-gradient well MW13S has detects over the NYS Class GA criteria. Groundwater concentrations in the deep wells MW1D and MW11D are above the NYS Class GA criteria for several compounds and do not show any discernible trends, while cross-gradient well MW13D has shown a definitive downward trend.
- Review of the MNA and VOC data indicate that natural attenuation is occurring primarily through dilution and dispersion and to a lesser extent sorption and volatilization.
- Continued annual groundwater monitoring is recommended due to detections of VOCs in the May 2015 samples exceeding the NYS Class GA groundwater criteria.

6.0 References

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Table 1
Well Construction Data

Well Number	Northing	Easting	Ground Elevation	Top of Casing Elevation	Total Depth of Well
MW-1D	214,707.10	1,106,646.90	120.18	119.77	130
MW-1S	214,708.46	1,106,651.34	120.28	119.82	90
MW-11D	214,701.44	1,106,744.20	119.77	119.51	124
MW-11S	214,706.18	1,106,741.07	119.96	119.66	95
MW-12D	214,675.55	1,106,597.69	118.56	118.26	125
MW-12S	214,670.11	1,106,598.27	118.51	117.88	95
MW-13D	214,630.74	1,106,353.23	116.82	116.41	126
MW-13S	214,625.69	1,106,354.25	116.66	116.32	96
FSMW-07A	214,823.99	1,107,063.34	122.84	122.7	70
FSMW-07B	214,817.40	1,107,063.14	122.84	122.73	150
MW-02	215,480.78	1,106,935.05	123.48	122.49	58
MW-08	215,542.41	1,106,801.90	122.86	122.68	60.35
MW-09	215,055.99	1,106,860.06	122.08	121.86	62.05
NC-12	214,665.28	1,107,007.09	121.9	121.1	54
NC-25	215,133.85	1,106,575.82	119.28	119.05	60
U-1	215,414.79	1,106,492.01	124.2	124.03	67

Notes:
All elevations and depths are in feet.
Vertical datum: NAVD88
Horizontal datum: NY State Plane NAD83

Table 2
Groundwater Elevations

Well Number	Top of Inner Casing	Depth To Water 5/12/10	Elevation 5/12/10	Depth To Water 8/9/11	Elevation 8/9/11	Depth To Water 4/24/12	Elevation 4/24/12	Depth To Water 6/20/13	Elevation 6/20/13	Depth To Water 6/3/14	Elevation 6/3/14	Depth To Water 5/28/15	Elevation 5/28/15
MW-1D	119.77	42.4	77.37	45.59	74.18	43.84	75.93	44.06	75.71	46.52	73.25	46.18	73.59
MW-1S	119.82	41.85	77.97	45.58	74.24	43.82	76.00	44.05	75.77	46.38	73.44	46.21	73.61
MW-11D	119.51	42.74	76.77	46.65	72.86	44.7	74.81	44.95	74.56	47.36	72.15	47.13	72.38
MW-11S	119.66	42.76	76.90	46.5	73.16	44.66	75.00	45.01	74.65	47.37	72.29	47.2	72.46
MW-12D	118.26	41.47	76.79	45.25	73.01	43.52	74.74	43.76	74.50	45.6	72.66	45.82	72.44
MW-12S	117.88	41.08	76.80	44.82	73.06	43.12	74.76	43.38	74.50	46.1	71.78	45.43	72.45
MW-13D	116.41	39.74	76.67	43.5	72.91	41.81	74.6	42.1	74.31	44.35	72.06	44.11	72.3
MW-13S	116.32	39.68	76.64	43.4	72.92	41.73	74.59	42.05	74.27	44.27	72.05	43.97	72.35
FSMW-07A	122.7	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	48.67	74.03
FSMW-07B	122.73	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	49.04	73.69
MW-02	122.49	NM	NM	NM	NM	NM	NM	46.28	76.21	NM	NM	47.93	74.56
MW-08	122.68	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	48.06	74.62
MW-09	121.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	38.51	83.35
NC-12	121.1	NM	NM	NM	NM	NM	NM	45.25	75.85	47.6	73.5	47.44	73.66
NC-25	119.05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	44.92	74.13
U-1	124.03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	49.65	74.38

Notes:
All elevations and depths are in feet.
Vertical datum: NAVD88
NM - No measurement

Table 3
VOCs in Groundwater

Units: µg/L	NYS Class GA	MW11S 5/12/2010	MW11S 10/3/2011	MW11S 4/24/2012	MW11S 6/20/2013	MW11S 6/3/2014	(dup) 6/3/2014	MW11S 5/27/2015	(dup) 5/27/2015
1,1,1-Trichloroethane	5	1 U	**0.78** J	1 UJ	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	5 U	5 UJ	5 UJ	5 U	5 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	1 U	NA	NA	NA	NA	NA
1,1-Dichloroethane	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	5 UJ	5 UJ	5 UJ	5 U	5 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 UJ	1 U	5 UJ	R	R	5 U	5 U
1,2-Dibromoethane (EDB)	5	1 U	1 U	1 U	5 U	5 UJ	5 UJ	5 U	5 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene, Total	5	2 U	1 U	NA	**3**	**1.5**	**1.7**	**2** J	**2**
1,2-Dichloropropane	1	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	5 UJ	5 U	5 U	5 U	5 U
2-Butanone (MEK)	5	5 U	R	5 U	5 UJ	5 UJ	5 UJ	5 U	5 U
2-Hexanone	5	5 U	5 U	5 U	5 UJ	5 UJ	5 UJ	5 U	5 U
4-Methyl-2-pentanone (MIBK)	5	5 U	5 U	5 U	5 UJ	5 UJ	5 UJ	5 U	5 U
Acetone	5	5 U	R	R	5 UJ	5 U	5 U	5 U	5 U
Benzene	1	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	1 U	1 UJ	1 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5	1 UJ	1 U	1 U	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Carbon disulfide	60	1 U	1 UJ	1 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	1 U	1 U	1 UJ	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Chlorodibromomethane	NA	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5	1 U	1 U	1 U	5 UJ	5 U	5 U	5 U	5 U
Chloroform	7	1 U	1 UJ	1 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	**3** J	**1** J	**2** J	**2** J	**2** J
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Cyclohexane	NA	1 U	1 U	1 UJ	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	1 U	1 U	1 UJ	5 U	5 U	5 U	5 UJ	5 UJ
Ethylbenzene	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Isopropylbenzene	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Methyl Acetate	NA	1 U	1 U	1 UJ	5 U	5 U	5 U	5 U	5 U
Methyl tert-Butyl Ether	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	NA	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	1 U	1 U	1 UJ	5 U	5 U	5 U	5 U	5 U
Styrene	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene (PCE)	5	**8.7**	**5.5** J	**4.7**	**4** J	**2** J	**2** J	**2** J	**2** J
Toluene	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene (TCE)	5	1 U	**0.71** J	1 UJ	5 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane	5	1 U	1 U	1 U	5 UJ	5 U	5 U	5 U	5 U
Vinyl chloride	2	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Xylenes, total	5	2 U	2 U	2 U	5 U	5 U	5 U	5 U	5 U

U-Not detected
J-Estimated
R-Rejected
Detections are in bold text.
Exceedances are highlighted

Table 3
VOCs in Groundwater

Units: µg/L	NYS Class GA	MW11D 5/12/2010	MW11D 10/3/2011	MW11D 4/24/2012	(dup) 4/24/2012	MW11D 6/20/2013	MW11D 6/3/2014	MW11D 5/27/2015
1,1,1-Trichloroethane	5	**1.8**	**2.1**	**0.82** J	**1**	**1** J	5 U	5 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	5 U	5 UJ	5 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	5 U	5 U	5 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	1 U	1 U	NA	NA	NA
1,1-Dichloroethane	5	**2.5**	**3**	**1.6**	**2**	**2** J	**2** J	**2** J
1,1-Dichloroethene	5	**4**	**5.2**	**2**	**2.5**	**3** J	**2** J	**4** J
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 UJ	5 UJ	5 UJ	5 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 UJ	1 U	1 U	5 UJ	R	5 U
1,2-Dibromoethane (EDB)	5	1 U	1 U	1 U	1 U	5 U	5 UJ	5 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	5 U	5 U	5 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	5 U	5 U	5 U
1,2-Dichloroethene, Total	5	**1.2** J	**1.9**	NA	NA	**1**	**1.4**	**2**
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	5 U	5 U	5 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	5 U	5 U	5 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	5 UJ	5 U	5 U
2-Butanone (MEK)	5	5 UJ	R	5 U	5 R	5 UJ	5 UJ	5 U
2-Hexanone	5	5 UJ	5 U	5 U	5 U	5 UJ	5 UJ	5 U
4-Methyl-2-pentanone (MIBK)	5	5 UJ	5 U	5 U	5 U	5 UJ	5 UJ	5 U
Acetone	5	**4.8** J	R	R	R	5 UJ	5 U	5 U
Benzene	1	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Bromodichloromethane	5	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Bromoform	5	1 UJ	1 UJ	1 U	1 U	5 U	5 U	5 U
Bromomethane	5	1 U	1 U	1 U	1 U	5 UJ	5 UJ	5 UJ
Carbon disulfide	60	1 U	1 UJ	1 U	1 U	5 U	5 U	5 U
Carbon Tetrachloride	5	1 U	1 U	1 UJ	1 U	5 U	5 U	5 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Chlorodibromomethane	NA	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Chloroethane	5	1 U	1 U	1 U	1 U	5 UJ	5 U	5 U
Chloroform	7	1 U	1 UJ	1 U	1 U	5 U	5 U	5 U
Chloromethane	5	1 U	1 U	1 U	1 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	**1.2**	**1.9**	**1.1**	**1.2**	**1** J	**1** J	**2** J
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Cyclohexane	NA	1 U	1 U	1 UJ	1 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	1 U	1 U	1 UJ	1 U	5 U	5 U	5 UJ
Ethylbenzene	5	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Methyl Acetate	NA	1 UJ	1 U	1 UJ	1 U	5 U	5 U	5 U
Methyl tert-Butyl Ether	5	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Methylcyclohexane	NA	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Methylene Chloride	5	1 U	1 U	1 UJ	1 U	5 U	5 U	5 U
Styrene	5	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Tetrachloroethene (PCE)	5	**8.1**	**17** J	**9**	**8**	**14**	**8**	**13**
Toluene	5	1 U	1 U	1 U	1 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Trichloroethene (TCE)	5	3 U	**5.3**	**2.4** J	**2.6**	**4** J	**3** J	**4** J
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	5 UJ	5 U	5 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Xylenes, total	5	2 U	2 U	2 U	2 U	5 U	5 U	5 U

Table 3
VOCs in Groundwater

Units: µg/L	NYS Class GA	MW12S 5/11/2010	(dup) 5/11/2010	MW12S 8/9/2011	MW12S 4/24/2012	MW12S 6/20/2013	MW12S 6/3/2014	MW12S 5/27/2015
1,1,1-Trichloroethane	5	1 U	1 U	5 U	1 UJ	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	5 U	1 U	5 U	5 UJ	5 U
1,1,2-Trichloroethane	1	1 U	1 U	5 U	1 U	5 U	5 U	5 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	5 U	1 U	NA	NA	NA
1,1-Dichloroethane	5	1 U	1 U	5 U	1 U	5 U	5 U	5 U
1,1-Dichloroethene	5	1 U	1 U	5 U	1 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	5	1 U	1 U	5 U	1 U	5 UJ	5 UJ	5 U
1,2-Dibromo-3-chloropropane	0.04	1 UJ	1 U	5 UJ	1 U	5 UJ	R	5 U
1,2-Dibromoethane (EDB)	5	1 U	1 U	5 U	1 U	5 U	5 UJ	5 U
1,2-Dichlorobenzene	3	1 U	1 U	5 U	1 U	5 U	5 U	5 U
1,2-Dichloroethane	0.6	1 U	1 U	5 U	1 U	5 U	5 U	5 U
1,2-Dichloroethene, Total	5	**15**	**15**	**2.2** J	NA	5 U	5 U	5 U
1,2-Dichloropropane	1	1 U	1 U	5 U	1 U	5 U	5 U	5 U
1,3-Dichlorobenzene	3	1 U	1 U	5 U	1 U	5 U	5 U	5 U
1,4-Dichlorobenzene	3	1 U	1 U	5 U	1 U	5 UJ	5 U	5 U
2-Butanone (MEK)	5	5 U	5 U	5 UJ	5 U	5 UJ	5 UJ	5 U
2-Hexanone	5	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 U
4-Methyl-2-pentanone (MIBK)	5	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 U
Acetone	5	5 U	5 U	R	R	5 UJ	5 U	5 U
Benzene	1	1 U	1 U	5 U	1 U	5 U	5 U	5 U
Bromodichloromethane	5	1 U	1 U	5 U	1 U	5 U	5 U	5 U
Bromoform	5	1 U	1 U	5 U	1 U	5 U	5 U	5 U
Bromomethane	5	1 U	1 UJ	5 U	1 U	5 UJ	5 UJ	5 UJ
Carbon disulfide	60	1 U	1 U	5 U	1 U	5 U	5 U	5 U
Carbon Tetrachloride	5	1 U	1 U	5 U	1 UJ	5 U	5 U	5 U
Chlorobenzene	5	1 U	1 U	5 U	1 U	5 U	5 U	5 U
Chlorodibromomethane	NA	1 UJ	1 U	5 U	1 U	5 U	5 U	5 U
Chloroethane	5	1 U	1 U	5 U	1 U	5 UJ	5 U	5 U
Chloroform	7	1 U	1 U	5 U	1 U	5 U	5 U	5 U
Chloromethane	5	1 U	1 U	5 U	1 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	**15**	**15**	**2.2** J	**1.7**	5 U	5 U	5 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	5 U	1 U	5 U	5 U	5 U
Cyclohexane	NA	1 U	1 U	5 U	1 UJ	5 U	5 U	5 U
Dichlorodifluoromethane	5	1 UJ	1 U	5 U	1 UJ	5 U	5 U	5 UJ
Ethylbenzene	5	1 U	1 U	5 U	1 U	5 U	5 U	5 U
Isopropylbenzene	5	1 U	1 U	5 U	1 U	5 U	5 U	5 U
Methyl Acetate	NA	1 U	1 U	5 UJ	1 UJ	5 U	5 U	5 U
Methyl tert-Butyl Ether	5	1 U	1 U	5 U	1 U	5 U	5 U	5 U
Methylcyclohexane	NA	1 U	1 U	5 U	1 U	5 U	5 U	5 U
Methylene Chloride	5	1 U	1 U	5 U	1 UJ	5 U	5 U	5 U
Styrene	5	1 U	1 U	5 U	1 U	5 U	5 U	5 U
Tetrachloroethene (PCE)	5	**10**	**10**	**18**	**21**	**5**	**1** J	5 U
Toluene	5	1 U	1 U	5 U	1 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	5	1 U	1 U	5 U	1 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	0.4	1 UJ	1 U	5 U	1 U	5 U	5 U	5 U
Trichloroethene (TCE)	5	**2.5**	**2.4**	**1.9** J	**3** J	**2** J	5 U	5 U
Trichlorofluoromethane	5	1 UJ	1 U	5 U	1 U	5 UJ	5 U	5 U
Vinyl chloride	2	1 U	1 U	5 U	1 U	5 U	5 U	5 U
Xylenes, total	5	2 U	2 U	5 U	2 U	5 U	5 U	5 U

Table 3
VOCs in Groundwater

Units: µg/L	NYS Class GA	MW12D 5/11/2010	MW12D 8/9/2011	MW12D 4/24/2012	MW12D 6/20/2013	MW12D 6/3/2014	MW12D 5/27/2015
1,1,1-Trichloroethane	5	**8.8**	**0.91** J	**1.1** J	**2** J	**1** J	**1** J
1,1,2,2-Tetrachloroethane	5	1 U	5 U	1 U	5 U	5 UJ	5 U
1,1,2-Trichloroethane	1	1 U	5 U	1 U	5 U	5 U	5 U
1,1,2-Trichlorotrifluoroethane	5	**2.2**	5 U	1 U	NA	NA	NA
1,1-Dichloroethane	5	**2.4**	5 U	1 U	5 U	5 U	5 U
1,1-Dichloroethene	5	**17**	**1.5** J	1 U	**4** J	**1** J	**2** J
1,2,4-Trichlorobenzene	5	1 U	5 U	1 U	5 UJ	5 UJ	5 U
1,2-Dibromo-3-chloropropane	0.04	1 U	5 UJ	1 U	5 UJ	R	5 U
1,2-Dibromoethane (EDB)	5	1 U	5 U	1 U	5 U	5 UJ	5 U
1,2-Dichlorobenzene	3	1 U	5 U	1 U	5 U	5 U	5 U
1,2-Dichloroethane	0.6	1 U	5 U	1 U	5 U	5 U	5 U
1,2-Dichloroethene, Total	5	**1.8** J	5 U	NA	5 U	5 U	5 U
1,2-Dichloropropane	1	1 U	5 U	1 U	5 U	5 U	5 U
1,3-Dichlorobenzene	3	1 U	5 U	1 U	5 U	5 U	5 U
1,4-Dichlorobenzene	3	1 U	5 U	1 U	5 UJ	5 U	5 U
2-Butanone (MEK)	5	5 U	5 UJ	5 U	5 UJ	5 UJ	5 U
2-Hexanone	5	5 U	5 U	5 U	5 UJ	5 UJ	5 U
4-Methyl-2-pentanone (MIBK)	5	5 U	5 U	5 U	5 UJ	5 UJ	5 U
Acetone	5	5 U	R	R	5 UJ	5 U	5 U
Benzene	1	1 U	5 U	1 U	5 U	5 U	5 U
Bromodichloromethane	5	1 U	5 U	1 U	5 U	5 U	5 U
Bromoform	5	1 U	5 U	1 U	5 U	5 U	5 U
Bromomethane	5	1 UJ	5 U	1 U	5 UJ	5 UJ	5 UJ
Carbon disulfide	60	1 U	5 U	1 U	5 U	5 U	5 U
Carbon Tetrachloride	5	1 U	5 U	1 UJ	5 U	5 U	5 U
Chlorobenzene	5	1 U	5 U	1 U	5 U	5 U	5 U
Chlorodibromomethane	NA	1 U	5 U	1 U	5 U	5 U	5 U
Chloroethane	5	1 U	5 U	1 U	5 UJ	5 U	5 U
Chloroform	7	1 U	5 U	1 U	5 U	5 U	5 U
Chloromethane	5	1 U	5 U	1 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	**1.8**	5 U	1 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	0.4	1 U	5 U	1 U	5 U	5 U	5 U
Cyclohexane	NA	1 U	5 U	1 UJ	5 U	5 U	5 U
Dichlorodifluoromethane	5	1 U	5 U	1 UJ	5 U	5 U	5 UJ
Ethylbenzene	5	1 U	5 U	1 U	5 U	5 U	5 U
Isopropylbenzene	5	1 U	5 U	1 U	5 U	5 U	5 U
Methyl Acetate	NA	1 U	5 UJ	1 UJ	5 U	5 U	5 U
Methyl tert-Butyl Ether	5	1 U	5 U	1 U	5 U	5 U	5 U
Methylcyclohexane	NA	1 U	5 U	1 U	5 U	5 U	5 U
Methylene Chloride	5	1 U	5 U	1 UJ	5 U	5 U	5 U
Styrene	5	1 U	5 U	1 U	5 U	5 U	5 U
Tetrachloroethene (PCE)	5	**7.1**	**1.8** J	**2.6**	**3** J	**2** J	**2** J
Toluene	5	1 U	5 U	1 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	5	1 U	5 U	1 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	0.4	1 U	5 U	1 U	5 U	5 U	5 U
Trichloroethene (TCE)	5	**25**	**1.4** J	**1.6** J	**3** J	5 U	**2** J
Trichlorofluoromethane	5	1 U	5 U	1 U	5 UJ	5 U	5 U
Vinyl chloride	2	1 U	5 U	1 U	5 U	5 U	5 U
Xylenes, total	5	2 U	5 U	2 U	5 U	5 U	5 U

Table 3
VOCs in Groundwater

Units: µg/L	NYS Class GA	MW13S 5/11/2010	MW13S 8/9/2011	(dup) 8/9/2011	MW13S 4/24/2012	MW13S 6/20/2013	MW13S 6/4/2014	MW13S 5/28/2015
1,1,1-Trichloroethane	5	1 U	**2.1** J	**1.8** J	**2.5** J	**6**	**8** J	**4** J
1,1,2,2-Tetrachloroethane	5	1 U	5 U	5 U	1 U	5 U	5 UJ	5 U
1,1,2-Trichloroethane	1	1 U	5 U	5 U	1 U	5 U	5 U	5 U
1,1,2-Trichlorotrifluoroethane	5	1 U	5 U	5 U	1 U		NA	NA
1,1-Dichloroethane	5	1 U	**4.2** J	**3.6** J	**5.3**	**15**	**18** J	**10**
1,1-Dichloroethene	5	1 U	**0.82** J	**0.74** J	1 U	**2** J	**2** J	**1** J
1,2,4-Trichlorobenzene	5	1 U	5 U	5 U	1 U	5 UJ	5 UJ	5 U
1,2-Dibromo-3-chloropropane	0.04	1 UJ	5 UJ	5 UJ	1 U	5 UJ	R	5 U
1,2-Dibromoethane (EDB)	5	1 U	5 U	5 U	1 U	5 U	5 UJ	5 U
1,2-Dichlorobenzene	3	1 U	5 U	5 U	1 U	5 U	5 U	5 U
1,2-Dichloroethane	0.6	1 U	5 U	5 U	1 U	5 U	5 U	5 U
1,2-Dichloroethene, Total	5	**0.74** J	**6.1**	**5.3**	NA	**24**	**31** J	**18**
1,2-Dichloropropane	1	1 U	5 U	5 U	1 U	5 U	5 U	5 U
1,3-Dichlorobenzene	3	1 U	5 U	5 U	1 U	5 U	5 U	5 U
1,4-Dichlorobenzene	3	1 U	5 U	5 U	1 U	5 UJ	5 U	5 U
2-Butanone (MEK)	5	5 U	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U
2-Hexanone	5	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 U
4-Methyl-2-pentanone (MIBK)	5	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 U
Acetone	5	5 U	R	R	R	5 UJ	5 U	5 U
Benzene	1	1 U	5 U	5 U	1 U	5 U	5 U	5 U
Bromodichloromethane	5	1 U	5 U	5 U	1 U	5 U	5 U	5 U
Bromoform	5	1 U	5 U	5 U	1 U	5 U	5 U	5 U
Bromomethane	5	1 U	5 U	5 U	1 U	5 UJ	**2** J	5 UJ
Carbon disulfide	60	1 U	5 U	5 U	1 U	5 U	5 U	5 U
Carbon Tetrachloride	5	1 U	5 U	5 U	1 UJ	5 U	5 U	5 U
Chlorobenzene	5	1 U	5 U	5 U	1 U	5 U	5 U	5 U
Chlorodibromomethane	NA	1 UJ	5 U	5 U	1 U	5 U	5 U	5 U
Chloroethane	5	1 U	5 U	5 U	1 U	5 UJ	5 U	5 U
Chloroform	7	1 U	5 U	5 U	1 U	5 U	5 U	5 U
Chloromethane	5	1 U	5 U	5 U	1 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	1 U	**6.1**	**5.3**	**7.9**	**24**	**30** J	**17**
cis-1,3-Dichloropropene	0.4	1 U	5 U	5 U	1 U	5 U	5 U	5 U
Cyclohexane	NA	1 U	5 U	5 U	1 UJ	5 U	5 U	5 U
Dichlorodifluoromethane	5	1 UJ	5 U	5 U	1 UJ	5 U	5 U	5 UJ
Ethylbenzene	5	1 U	5 U	5 U	1 U	5 U	5 U	5 U
Isopropylbenzene	5	1 U	5 U	5 U	1 U	5 U	5 U	5 U
Methyl Acetate	NA	1 U	5 UJ	5 UJ	1 UJ	5 U	5 U	5 U
Methyl tert-Butyl Ether	5	1 U	5 U	5 U	1 U	5 U	5 U	5 U
Methylcyclohexane	NA	1 U	5 U	5 U	1 U	5 U	5 U	5 U
Methylene Chloride	5	1 U	5 U	5 U	1 UJ	5 U	5 U	5 U
Styrene	5	1 U	5 U	5 U	1 U	5 U	5 U	5 U
Tetrachloroethene (PCE)	5	**1.2**	**3.5** J	**3.3** J	**5.5**	**14**	**13** J	**6**
Toluene	5	1 U	5 U	5 U	1 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	5	1 U	5 U	5 U	1 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	0.4	1 UJ	5 U	5 U	1 U	5 U	5 U	5 U
Trichloroethene (TCE)	5	**1.7**	**16**	**14**	**16** J	**22**	**12**	**5**
Trichlorofluoromethane	5	1 UJ	5 U	5 U	1 U	5 UJ	5 U	5 U
Vinyl chloride	2	1 U	5 U	5 U	1 U	5 U	5 U	5 U
Xylenes, total	5	2 U	5 U	5 U	2 U	5 U	5 U	5 U

Table 3
VOCs in Groundwater

Units: µg/L	NYS Class GA	MW13D 5/11/2010		MW13D 8/9/2011		MW13D 4/24/2012		MW13D 6/20/2013		MW13D 6/4/2014		MW13D 5/28/2015	
1,1,1-Trichloroethane	5	**4.2**		**4.7**	J	**3.1**	J	**2**	J	**2**	J	5	U
1,1,2,2-Tetrachloroethane	5	1	U	5	U	1	U	5	U	5	UJ	5	U
1,1,2-Trichloroethane	1	1	U	5	U	1	U	5	U	5	U	5	U
1,1,2-Trichlorotrifluoroethane	5	**1.2**		5	U	1	U	NA		NA		NA	
1,1-Dichloroethane	5	**1.2**		**0.72**	J	**0.63**	J	5	U	5	U	5	U
1,1-Dichloroethene	5	**7**		**5.6**		**3.8**		**5**		**3**	J	**1**	J
1,2,4-Trichlorobenzene	5	1	U	5	U	1	U	5	UJ	5	UJ	5	U
1,2-Dibromo-3-chloropropane	0.04	1	UJ	5	UJ	1	U	5	UJ	R		5	U
1,2-Dibromoethane (EDB)	5	1	U	5	U	1	U	5	U	5	UJ	5	U
1,2-Dichlorobenzene	3	1	U	5	U	1	U	5	U	5	U	5	U
1,2-Dichloroethane	0.6	**0.58**	J	5	U	1	U	5	U	5	U	5	U
1,2-Dichloroethene, Total	5	**17**		**8.5**		NA		**8**		**3.6**		**2**	
1,2-Dichloropropane	1	1	U	5	U	1	U	5	U	5	U	5	U
1,3-Dichlorobenzene	3	1	U	5	U	1	U	5	U	5	U	5	U
1,4-Dichlorobenzene	3	1	U	5	U	1	U	5	UJ	5	U	5	U
2-Butanone (MEK)	5	5	U	5	UJ	5	U	5	UJ	5	UJ	5	U
2-Hexanone	5	5	U	5	U	5	U	5	UJ	5	UJ	5	U
4-Methyl-2-pentanone (MIBK)	5	5	U	5	U	5	U	5	UJ	5	UJ	5	U
Acetone	5	5	U		R		R	5	UJ	5	U	5	U
Benzene	1	1	U	5	U	1	U	5	U	5	U	5	U
Bromodichloromethane	5	1	U	5	U	1	U	5	U	5	U	5	U
Bromoform	5	1	U	5	U	1	U	5	U	5	U	5	U
Bromomethane	5	1	U	5	U	1	U	5	UJ	5	UJ	5	UJ
Carbon disulfide	60	1	U	5	U	1	U	5	U	5	U	5	U
Carbon Tetrachloride	5	1	U	5	U	1	UJ	5	U	5	U	5	U
Chlorobenzene	5	1	U	5	U	1	U	5	U	5	U	5	U
Chlorodibromomethane	NA	1	UJ	5	U	1	U	5	U	5	U	5	U
Chloroethane	5	1	U	5	U	1	U	5	UJ	5	U	5	U
Chloroform	7	1	U	5	U	1	U	5	U	5	U	5	U
Chloromethane	5	1	U	5	U	1	U	5	U	5	U	5	U
cis-1,2-Dichloroethene	5	**17**		**8.5**		**6.1**		**8**		**4**	J	**2**	J
cis-1,3-Dichloropropene	0.4	1	U	5	U	1	U	5	U	5	U	5	U
Cyclohexane	NA	1	U	5	U	1	UJ	5	U	5	U	5	U
Dichlorodifluoromethane	5	1	UJ	5	U	1	UJ	5	U	5	U	5	UJ
Ethylbenzene	5	1	U	5	U	1	U	5	U	5	U	5	U
Isopropylbenzene	5	1	U	5	U	1	U	5	U	5	U	5	U
Methyl Acetate	NA	1	U	5	UJ	1	UJ	5	U	5	U	5	U
Methyl tert-Butyl Ether	5	1	U	5	U	1	U	5	U	5	U	5	U
Methylcyclohexane	NA	1	U	5	U	1	U	5	U	5	U	5	U
Methylene Chloride	5	1	U	5	U	1	UJ	5	U	5	U	5	U
Styrene	5	1	U	5	U	1	U	5	U	5	U	5	U
Tetrachloroethene (PCE)	5	**9.4**		**5.5**		**5.2**		**7**		**3**	J	**2**	J
Toluene	5	1	U	5	U	1	U	5	U	5	U	5	U
trans-1,2-Dichloroethene	5	1	U	5	U	1	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	0.4	1	UJ	5	U	1	U	5	U	5	U	5	U
Trichloroethene (TCE)	5	**200**		**88**		**60**	J	**65**		**30**		**11**	
Trichlorofluoromethane	5	1	UJ	5	U	1	U	5	UJ	5	U	5	U
Vinyl chloride	2	1	U	5	U	1	U	5	U	5	U	5	U
Xylenes, total	5	2	U	5	U	2	U	5	U	5	U	5	U

Table 3
VOCs in Groundwater

Units: µg/L	NYS Class GA	MW1S 4/5/2005	MW1S 5/12/2010	MW1S 8/10/2011	MW1S 4/24/2012	MW1S 6/20/2013	MW1S 6/3/2014	MW1S 5/28/2015
1,1,1-Trichloroethane	5	**3.6**	1 U	5 U	1 UJ	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1 U	5 U	1 U	5 U	5 UJ	5 U
1,1,2-Trichloroethane	1	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
1,1,2-Trichlorotrifluoroethane	5	0.5 U	1 U	5 U	1 U	NA	NA	NA
1,1-Dichloroethane	5	**0.9**	1 U	5 U	1 U	5 U	5 U	5 U
1,1-Dichloroethene	5	**1.4**	1 U	5 U	1 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	5	0.5 U	1 U	5 U	1 U	5 UJ	5 UJ	5 U
1,2-Dibromo-3-chloropropane	0.04	0.5 U	1 U	5 UJ	1 U	5 UJ	R	5 U
1,2-Dibromoethane (EDB)	5	0.5 U	1 U	5 U	1 U	5 U	5 UJ	5 U
1,2-Dichlorobenzene	3	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
1,2-Dichloroethane	0.6	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
1,2-Dichloroethene, Total	5	NA	**18**	**20**	NA	**4**	**2.8**	**3**
1,2-Dichloropropane	1	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
1,3-Dichlorobenzene	3	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
1,4-Dichlorobenzene	3	0.5 U	1 U	5 U	1 U	5 UJ	5 U	5 U
2-Butanone (MEK)	5	5 U	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U
2-Hexanone	5	5 U	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U
4-Methyl-2-pentanone (MIBK)	5	5 U	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U
Acetone	5	5 U	**5** J	R	R	5 UJ	5 U	5 U
Benzene	1	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Bromodichloromethane	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Bromoform	5	0.5 U	1 UJ	5 U	1 U	5 U	5 U	5 U
Bromomethane	5	0.5 U	1 U	5 U	1 U	5 UJ	5 UJ	5 UJ
Carbon disulfide	60	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Carbon Tetrachloride	5	0.5 U	1 U	5 U	1 UJ	5 U	5 U	5 U
Chlorobenzene	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Chlorodibromomethane	NA	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Chloroethane	5	0.5 U	1 U	5 U	1 U	5 UJ	5 U	5 U
Chloroform	7	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Chloromethane	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	**84**	**18**	**20**	**12**	**4** J	**3** J	**3** J
cis-1,3-Dichloropropene	0.4	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Cyclohexane	NA	0.5 U	1 U	5 U	1 UJ	5 U	5 U	5 U
Dichlorodifluoromethane	5	0.5 U	1 U	5 U	1 UJ	5 U	5 U	5 UJ
Ethylbenzene	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Isopropylbenzene	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Methyl Acetate	NA	0.5 U	1 UJ	5 UJ	1 UJ	5 U	5 U	5 U
Methyl tert-Butyl Ether	5	**0.97**	1 U	5 U	1 U	5 U	5 U	5 U
Methylcyclohexane	NA	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Methylene Chloride	5	0.5 U	1 U	5 U	1 UJ	5 U	5 U	5 U
Styrene	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Tetrachloroethene (PCE)	5	**220**	**8.9**	**4.4** J	**5.5**	**4** J	**2** J	**3** J
Toluene	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	5	**0.76**	1 U	5 U	1 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	0.4	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Trichloroethene (TCE)	5	**33**	3.1 U	**2.2** J	**1.8** J	**2** J	5 U	5 U
Trichlorofluoromethane	5	0.5 U	1 U	5 U	1 U	5 UJ	5 U	5 U
Vinyl chloride	2	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Xylenes, total	5	0.5 U	2 U	5 U	2 U	5 U	5 U	5 U

Table 3
VOCs in Groundwater

Units: µg/L	NYS Class GA	MW1D 4/5/2005	MW1D 5/12/2010	MW1D 8/10/2011	MW1D 4/24/2012	MW1D 6/20/2013	MW1D 6/3/2014	MW1D 5/27/2015
1,1,1-Trichloroethane	5	**17**	**15**	**3.7** J	**9.9** J	**9**	**6**	**4** J
1,1,2,2-Tetrachloroethane	5	0.5 U	1 U	5 U	1 U	5 U	5 UJ	5 U
1,1,2-Trichloroethane	1	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
1,1,2-Trichlorotrifluoroethane	5	**1.7**	**3.5**	5 U	1 U	NA	NA	NA
1,1-Dichloroethane	5	**4**	**4.3**	**2.2** J	**2.8**	**3** J	5 U	**2** J
1,1-Dichloroethene	5	**22**	**30**	**4.3** J	**24**	**28**	**15**	**16**
1,2,4-Trichlorobenzene	5	0.5 U	1 U	5 U	1 U	5 UJ	5 UJ	5 U
1,2-Dibromo-3-chloropropane	0.04	0.5 U	1 U	5 UJ	1 U	5 UJ	R	5 U
1,2-Dibromoethane (EDB)	5	0.5 U	1 U	5 U	1 U	5 U	5 UJ	5 U
1,2-Dichlorobenzene	3	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
1,2-Dichloroethane	0.6	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
1,2-Dichloroethene, Total	5	NA	**4.4**	**5.7**	NA	**7**	**5.9**	**5**
1,2-Dichloropropane	1	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
1,3-Dichlorobenzene	3	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
1,4-Dichlorobenzene	3	0.5 U	1 U	5 U	1 U	5 UJ	5 U	5 U
2-Butanone (MEK)	5	5 U	5 U	5 UJ	5 U	5 UJ	5 UJ	5 U
2-Hexanone	5	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 U
4-Methyl-2-pentanone (MIBK)	5	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 U
Acetone	5	5 U	5 U	R	R	5 UJ	5 U	5 U
Benzene	1	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Bromodichloromethane	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Bromoform	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Bromomethane	5	0.5 U	1 UJ	5 U	1 U	5 UJ	5 UJ	5 UJ
Carbon disulfide	60	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Carbon Tetrachloride	5	0.5 U	1 U	5 U	1 UJ	5 U	5 U	5 U
Chlorobenzene	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Chlorodibromomethane	NA	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Chloroethane	5	0.5 U	1 U	5 U	1 U	5 UJ	5 U	5 U
Chloroform	7	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Chloromethane	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	**4.4**	**4.4**	**5.7**	**6.6**	**7**	**6**	**5**
cis-1,3-Dichloropropene	0.4	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Cyclohexane	NA	0.5 U	1 U	5 U	1 UJ	5 U	5 U	5 U
Dichlorodifluoromethane	5	0.5 U	1 U	5 U	1 UJ	5 U	5 U	5 UJ
Ethylbenzene	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Isopropylbenzene	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Methyl Acetate	NA	0.5 U	1 U	5 UJ	1 UJ	5 U	5 U	5 U
Methyl tert-Butyl Ether	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Methylcyclohexane	NA	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Methylene Chloride	5	0.5 U	1 U	5 U	1 UJ	5 U	5 U	5 U
Styrene	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Tetrachloroethene (PCE)	5	**8.6**	**18**	**6.6**	**24**	**26**	**13**	**12**
Toluene	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	5	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	0.4	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Trichloroethene (TCE)	5	**54**	**74**	**65**	**110** J	**110**	**77**	**61**
Trichlorofluoromethane	5	0.5 U	1 U	5 U	1 U	5 UJ	5 U	5 U
Vinyl chloride	2	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U
Xylenes, total	5	0.5 U	2 U	5 U	2 U	5 U	5 U	5 U

Table 3
VOCs in Groundwater

Units: µg/L	NYS Class GA	NC-12 6/20/2013	NC-12 6/3/2014	NC-12 5/28/2015
1,1,1-Trichloroethane	5	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 UJ	5 U
1,1,2-Trichloroethane	1	5 U	5 U	5 U
1,1,2-Trichlorotrifluoroethane	5	NA	NA	NA
1,1-Dichloroethane	5	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U
1,2,4-Trichlorobenzene	5	5 UJ	5 UJ	5 U
1,2-Dibromo-3-chloropropane	0.04	5 UJ	R	5 U
1,2-Dibromoethane (EDB)	5	5 U	5 UJ	5 U
1,2-Dichlorobenzene	3	5 U	5 U	5 U
1,2-Dichloroethane	0.6	5 U	5 U	5 U
1,2-Dichloroethene, Total	5	5 U	5 U	5 U
1,2-Dichloropropane	1	5 U	5 U	5 U
1,3-Dichlorobenzene	3	5 U	5 U	5 U
1,4-Dichlorobenzene	3	5 U	5 U	5 U
2-Butanone (MEK)	5	5 UJ	5 UJ	5 U
2-Hexanone	5	5 UJ	5 UJ	5 U
4-Methyl-2-pentanone (MIBK)	5	5 U	5 UJ	5 U
Acetone	5	5 UJ	5 U	5 U
Benzene	1	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U
Bromomethane	5	5 UJ	5 UJ	5 UJ
Carbon disulfide	60	5 UJ	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U
Chlorodibromomethane	NA	5 UJ	5 U	5 U
Chloroethane	5	5 UJ	5 U	5 U
Chloroform	7	5 U	5 U	**1** J
Chloromethane	5	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	5 U	5 U	5 U
cis-1,3-Dichloropropene	0.4	5 U	5 U	5 U
Cyclohexane	NA	5 UJ	5 U	5 U
Dichlorodifluoromethane	5	5 U	5 U	5 UJ
Ethylbenzene	5	5 U	5 U	5 U
Isopropylbenzene	5	5 U	5 U	5 U
Methyl Acetate	NA	5 UJ	5 U	5 U
Methyl tert-Butyl Ether	5	5 U	5 U	5 U
Methylcyclohexane	NA	5 UJ	5 U	5 U
Methylene Chloride	5	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U
Tetrachloroethene (PCE)	5	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U
trans-1,2-Dichloroethene	5	5 U	5 U	5 U
trans-1,3-Dichloropropene	0.4	5 U	5 U	5 U
Trichloroethene (TCE)	5	5 U	5 U	5 U
Trichlorofluoromethane	5	5 UJ	5 U	5 U
Vinyl chloride	2	5 U	5 U	5 U
Xylenes, total	5	5 U	5 U	5 U

Table 4

MNA Parameters in Groundwater

ANALYTE	UNITS	NY Class GA	MW11S						MW11D					
			5/12/2010	10/3/2011	4/24/2012	6/20/2013	6/3/2014	5/27/2015	5/12/2010	10/3/2011	4/24/2012	6/20/2013	6/3/2014	5/27/2015
Methane	µg/L	NA	1 U	**1.9**	**1.8**	1 U	1 U	1 U	**0.63** J	**1.7**	**13**	1 U	1 U	**0.3** J
Carbon Dioxide	µg/L	NA	**5200**	**1750**	**2340**	**13200**	**10600**	**1800**	**1000**	**7350**	**10300**	**26400**	**25500**	**7000**
Sulfate	mg/L	250	**16.1** B	**12**	**23.5**	**44.6**	**38.3**	**31.6**	**28.4** B	**17**	**15.6**	**16.2**	**17.3**	**16.4**
Nitrogen, Nitrate	mg/L-N	10	**1.42**	**1.3** B	**2.3** D	**2.31** D	**2.04** D	**1.73** D	**1.62**	**1.3** B	**1.2** D	**0.77**	**0.67** D	**0.9**
Iron - Dissolved	mg/L	300	0.05 U	0.2 U	**0.05** B	**0.04** B	**0.02** B	**0.01** B	0.05 U	0.2 U	**0.23**	**0.35**	**0.01** B	**0.11**
Dissolved Oxygen														
Laboratory	mg/L	NA	**10.5**	**33.6**	**50.4**	**12.0**	**8.4**	**12.6**	**10.6**	**35.6**	**37.3**	**1.8**	**7.0**	**3.8**
Field	mg/L	NA	**9.7**	**13.4**	**14.0**	**6.7**	**7.8**	**8.0**	**3.8**	**3.1**	**2.8**	**0.7**	**8.6**	**1.5**
Temperature														
Field	Celsius	NA	**14.4**	**17.9**	**11.7**	**22.2**	**16.2**	**15.1**	**13.3**	**19.0**	**15.9**	**18.9**	**20.5**	**15.3**

U Not detected

J Concentrations are estimated.

D Dilution required due to high concentration of target analyte(s)

B Analyte was detected in the associated Method Blank

NA Not available

Detections are in bold text.

The field dissolved oxygen and temperature are the final readings collected during groundwater sampling.

Table 4

MNA Parameters in Groundwater

		NY	MW12S	(dup)	MW12S					MW12D					
ANALYTE	UNITS	Class GA	5/11/2010	5/11/2010	8/9/2011	4/24/2012	6/20/2013	6/3/2014	5/27/2015	5/11/2010	8/9/2011	4/24/2012	6/20/2013	6/3/2014	5/27/2015
Methane	µg/L	NA	1 U	1 U	**0.61**	**1.8**	1 U	1 U	1 U	1 U	**0.63**	**1.6**	1 U	1 U	1 U
Carbon Dioxide	µg/L	NA	**3500**	**3400**	**6400**	**3530**	**8800**	**35200**	**6200**	**3500**	**2300**	**8150**	**13200**	**15800**	**3100**
Sulfate	mg/L	250	**28.9**	**29**	**37**	**47.6**	**39.2**	**41.2**	**45**	**46.8**	**25**	**29.3**	**22.8**	**20.1**	**21.2**
Nitrogen, Nitrate	mg/L-N	10	**2.97**	**2.97**	**4** B	**3.77**	**2.68** D	**2.12** D	**1.62** D	**3.38** D	**2.4** B	**2.59**	**2.57** D	**2.38** D	**2.43** D
Iron - Dissolved	mg/L	300	0.05 U	0.05 U	0.2 U	0.2 U	**0.04** B	**0.02** B	0.01 U	0.05 U	0.2 U	0.2 U	**0.09** B	**0.01** B	0.01 U
Dissolved Oxygen															
Laboratory	mg/L	NA	**11.3**	**11.3**	**37.2**	**27.4**	**8.9**	**9.1**	**13.4**	**9.9**	**47.4**	**35.0**	**9.9**	**9.4**	**6.7**
Field	mg/L	NA	**10.1**	NA	**7.5**	**12.7**	**3.3**	**6.5**	**7.9**	**9.9**	**15.8**	**8.3**	**8.3**	**4.8**	**4.9**
Temperature															
Field	Celsius	NA	**15.8**	NA	**20.1**	**15.0**	**38.8**	**20.4**	**18.2**	**17.2**	**18.7**	**10.5**	**18.1**	**20.4**	**17.0**

Table 4

MNA Parameters in Groundwater

ANALYTE	UNITS	NY Class GA	MW13S						MW13D					
			5/11/2010	8/9/2011	4/24/2012	6/20/2013	6/4/2014	5/28/2015	5/11/2010	8/9/2011	4/24/2012	6/20/2013	6/4/2014	5/28/2015
Methane	µg/L	NA	1 U	**0.63**	**2.0**	1 U	1 U	1 U	1 U	**0.67**	**1.7**	1 U	1 U	**0.3** J
Carbon Dioxide	µg/L	NA	**17000**	**11000**	**12900**	**17600**	**34300**	**16300**	**9000**	**13600**	**22400**	**30800**	**17600**	**7900**
Sulfate	mg/L	250	**47.9**	**28**	**39.5**	**31.2**	**33.2**	**27.8**	**12.4**	**12**	**16.5**	**9.94**	**10.5**	**10**
Nitrogen, Nitrate	mg/L-N	10	**3.81** D	**4.4** B	**5.34**	**4.44** D	**3.31** D	**3.03** D	**6.39** D	**4.6** B	**5.7**	**6.53** D	**6.82** D	**6** D
Iron - Dissolved	mg/L	300	0.05 U	0.2 U	0.2 U	**0.04** B	**0.01** B	**0.02** B	0.05 U	1.17 U	0.2 U	**0.04** B	**0.12**	**0.12**
Dissolved Oxygen														
Laboratory	mg/L	NA	**12.2**	**16.9**	**18.4**	**9.3**	**12.2**	**9.9**	**9.3**	**16.0**	**52.3**	**5.5**	**1.0**	**22.4**
Field	mg/L	NA	**10.1**	**7.5**	**10.7**	**8.0**	**8.8**	**4.8**	**10.1**	**4.5**	**3.3**	**5.7**	**0.1**	**10.5**
Temperature														
Field	Celsius	NA	**16.7**	**19.4**	**11.3**	**17.8**	**19.6**	**17.2**	**18.3**	**18.3**	**15.7**	**18.9**	**16.3**	**17.9**

Table 4

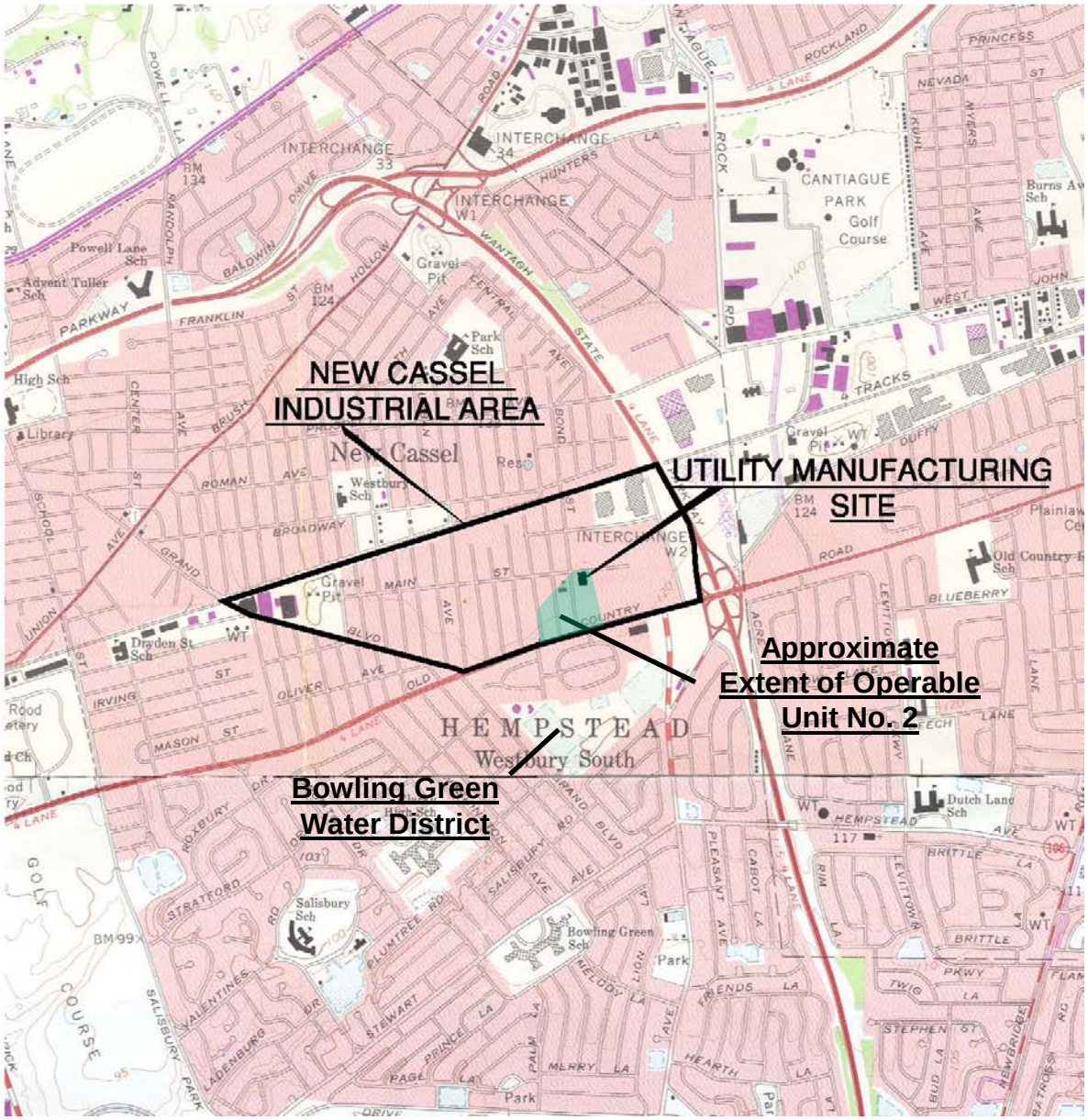
MNA Parameters in Groundwater

ANALYTE	UNITS	NY Class GA	MW1S							MW1D						
			5/12/2010	8/10/2011	4/24/2012	6/20/2013	6/20/2013	6/4/2014	5/28/2015	5/12/2010	8/10/2011	4/24/2012	6/20/2013	6/20/2013	6/4/2014	5/27/2015
Methane	µg/L	NA	1 U	**0.7**	**1.7**	1 U	1 U	1 U	1 U	1 U	**0.78**	**1.8**	1 U	1 U	1 U	**0.3** J
Carbon Dioxide	µg/L	NA	**7700**	**10400**	**8790**	**26400**	**13200**	**20200**	**9700**	**15000**	**3860**	**13000**	**35200**	**35200**	**22000**	**10600**
Sulfate	mg/L	250	**25.9** B	**13**	**18.6**	**25.4**	**44.4**	**37.1**	**28.9**	**24.4** B	**16**	**22.5**	**20**	**20**	**16.1**	**13.8**
Nitrogen, Nitrate	mg/L-N	10	**1.85**	**2.2** B	**2.6** D	**2.39** D	**2.27** D	**1.94** D	**1.73** D	**2.8**	**2.5** B	**2.4** D	**1.67** D	**1.67** D	**1.55** D	**1.25**
Iron - Dissolved	mg/L	300	0.05 U	0.2 U	**0.05** B	**0.05** B	**0.06** B	**0.02** B	**0.02** B	**0.029** J	0.2 U	**0.036** B	**0.20**	**0.20**	**0.18**	**0.05** B
Dissolved Oxygen																
Laboratory	mg/L	NA	**6.6**	**25.2**	**48.4**	**8.1**	**11.4**	**12.1**	**9.6**	**4.2**	**38.0**	**18.3**	**2.3**	**2.3**	**7.5**	**11.6**
Field	mg/L	NA	**6.8**	**12.2**	**10.4**	**7.0**	NA	**8.2**	**7.4**	**0.6**	**16.8**	**2.3**	**1.1**	**1.1**	**8.4**	**9.1**
Temperature																
Field	Celsius	NA	**15.8**	**17.9**	**15.9**	**19.3**	NA	**22.8**	**17.0**	**15.2**	**20.8**	**16.4**	**17.7**	**17.7**	**23.2**	**19.8**

Table 4

MNA Parameters in Groundwater

ANALYTE	UNITS	NY Class GA	NC-12					
			6/28/2013		6/4/2014		5/28/2015	
Methane	µg/L	NA	1	U	1	U	1	U
Carbon Dioxide	µg/L	NA	**26400**		**36100**		**18000**	
Sulfate	mg/L	250	**134**	D	**86.1**	D	**40.5**	
Nitrogen, Nitrate	mg/L-N	10	**2.8**	D	**2.89**	D	**3.9**	D
Iron - Dissolved	mg/L	300	**0.11**		**0.02**	B	**0.01**	B
Dissolved Oxygen								
Laboratory	mg/L	NA	**8.0**		**8.6**		**8.9**	
Field	mg/L	NA	**8.08**		**6.3**		**7.5**	
Temperature								
Field	Celsius	NA	**18.9**		**20.7**		**17.4**	



From ERM (2005):
USGS Hicksville & Freeport NY Quadrangle, 1979

100 Red Schoolhouse Road, Suite B-1
Chestnut Ridge , NY 10977-6715

ENVIRONMENTAL CONSULTING ENGINEERS

AECOM

PROJECT:

SITE MANAGEMENT

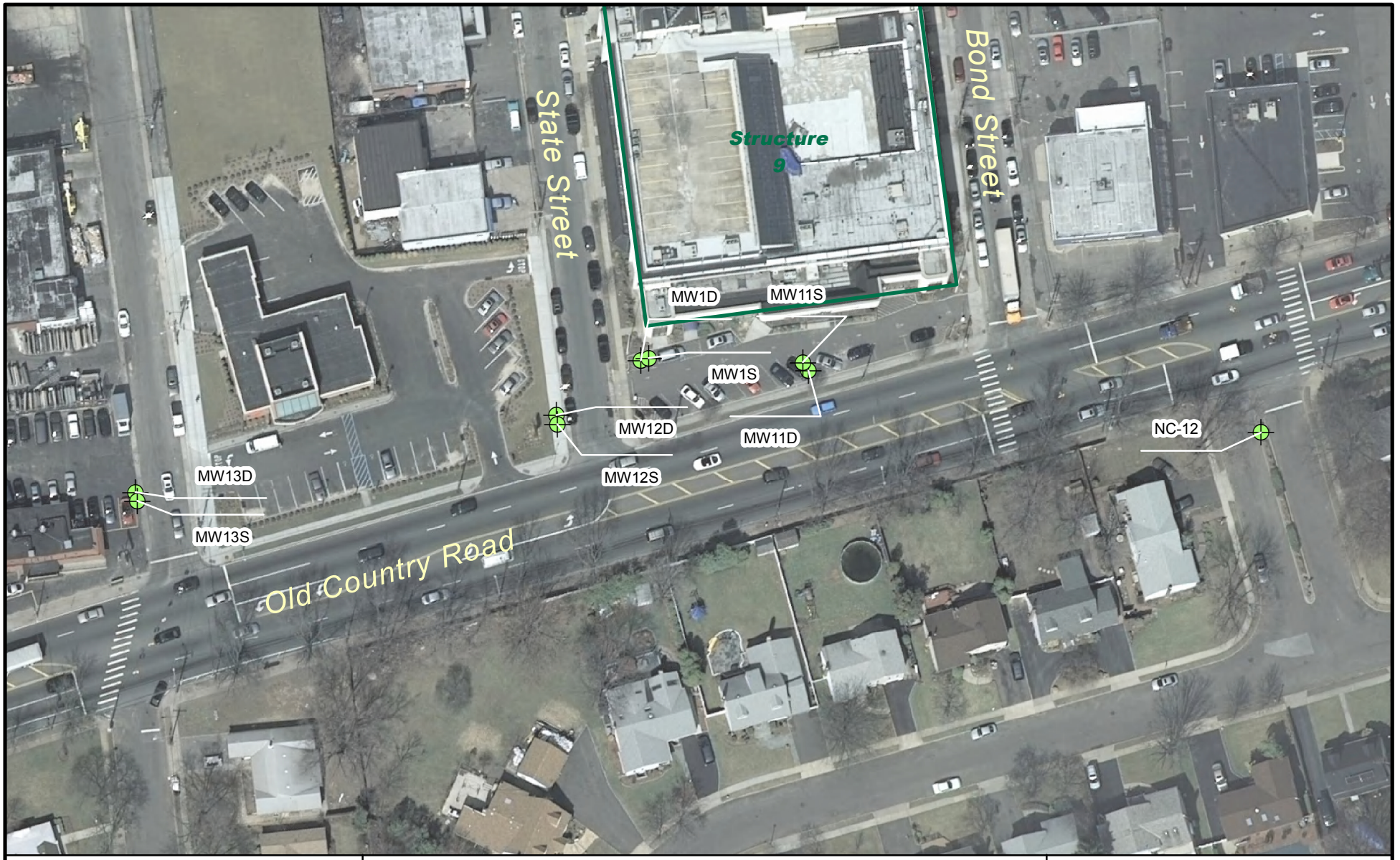
Utility Manufacturing/Wonder King, OU2
700 – 712 Main Street, Westbury, New York

SITE LOCATION MAP

Project No: 60269807

Figure No: 1

June 24, 2013



AECOM

Utility Manufacturing/Wonder King
700 – 712 Main Street
Westbury, New York

0 20 40 80
Feet

Legend

- Monitoring Wells
- Indoor Air Sample Structures

Groundwater Sampling Locations

Project No: 60269807

Figure No: 2

June 24, 2013

AECOM

Utility Manufacturing/Wonder King
700 – 712 Main Street
Westbury, New York

0 55 110 220
Feet

Legend

- Monitoring Wells
- Groundwater Contours (ft above mean sea level)
- Indoor Air Sample Structures

Groundwater elevations are in NAVD88.
The result for MW-09 was not used in constructing the contours.
The top of casing value available for this well may be incorrect.

Groundwater Elevations
Shallow Wells - May 2015

Project No: 60269807

Figure No: 3

10/29/2015

AECOM

Utility Manufacturing/Wonder King
700 – 712 Main Street
Westbury, New York

0 25 50 100 Feet

Legend

- Monitoring Wells
- Groundwater Contours (ft above mean sea level)
- Indoor Air Sample Structures

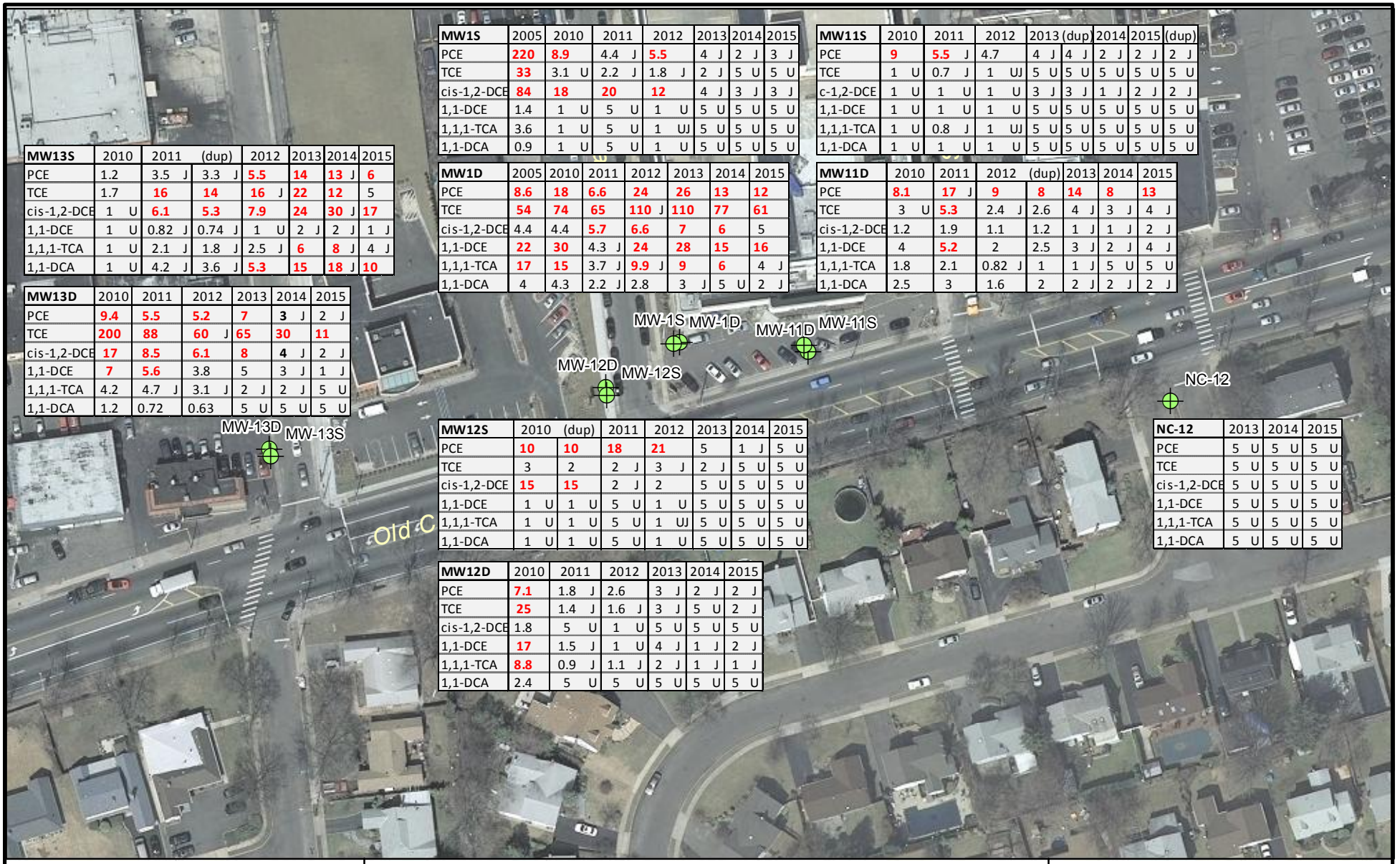
Groundwater elevations are in NAVD88.

Groundwater Elevations
Deep Wells - May 2015

Project No: 60269807

Figure No: 4

10/28/2015



MW13S	2010	2011	(dup)	2012	2013	2014	2015
PCE	1.2	3.5 J	3.3 J	5.5	14	13 J	6
TCE	1.7	16	14	16 J	22	12	5
cis-1,2-DCE	1 U	6.1	5.3	7.9	24	30 J	17
1,1-DCE	1 U	0.82 J	0.74 J	1 U	2 J	2 J	1 J
1,1,1-TCA	1 U	2.1 J	1.8 J	2.5 J	6	8 J	4 J
1,1-DCA	1 U	4.2 J	3.6 J	5.3	15	18 J	10

MW13D	2010	2011	2012	2013	2014	2015
PCE	9.4	5.5	5.2	7	3 J	2 J
TCE	200	88	60 J	65	30	11
cis-1,2-DCE	17	8.5	6.1	8	4 J	2 J
1,1-DCE	7	5.6	3.8	5	3 J	1 J
1,1,1-TCA	4.2	4.7 J	3.1 J	2 J	2 J	5 U
1,1-DCA	1.2	0.72	0.63	5 U	5 U	5 U

MW1S	2005	2010	2011	2012	2013	2014	2015
PCE	220	8.9	4.4 J	5.5	4 J	2 J	3 J
TCE	33	3.1 U	2.2 J	1.8 J	2 J	5 U	5 U
cis-1,2-DCE	84	18	20	12	4 J	3 J	3 J
1,1-DCE	1.4	1 U	5 U	1 U	5 U	5 U	5 U
1,1,1-TCA	3.6	1 U	5 U	1 UJ	5 U	5 U	5 U
1,1-DCA	0.9	1 U	5 U	1 U	5 U	5 U	5 U

MW1D	2005	2010	2011	2012	2013	2014	2015
PCE	8.6	18	6.6	24	26	13	12
TCE	54	74	65	110 J	110	77	61
cis-1,2-DCE	4.4	4.4	5.7	6.6	7	6	5
1,1-DCE	22	30	4.3 J	24	28	15	16
1,1,1-TCA	17	15	3.7 J	9.9 J	9	6	4 J
1,1-DCA	4	4.3	2.2 J	2.8	3 J	5 U	2 J

MW12S	2010	(dup)	2011	2012	2013	2014	2015
PCE	10	10	18	21	5	1 J	5 U
TCE	3	2	2 J	3 J	2 J	5 U	5 U
cis-1,2-DCE	15	15	2 J	2	5 U	5 U	5 U
1,1-DCE	1 U	1 U	5 U	1 U	5 U	5 U	5 U
1,1,1-TCA	1 U	1 U	5 U	1 UJ	5 U	5 U	5 U
1,1-DCA	1 U	1 U	5 U	1 U	5 U	5 U	5 U

MW12D	2010	2011	2012	2013	2014	2015
PCE	7.1	1.8 J	2.6	3 J	2 J	2 J
TCE	25	1.4 J	1.6 J	3 J	5 U	2 J
cis-1,2-DCE	1.8	5 U	1 U	5 U	5 U	5 U
1,1-DCE	17	1.5 J	1 U	4 J	1 J	2 J
1,1,1-TCA	8.8	0.9 J	1.1 J	2 J	1 J	1 J
1,1-DCA	2.4	5 U	5 U	5 U	5 U	5 U

MW11S	2010	2011	2012	2013	(dup)	2014	2015	(dup)
PCE	9	5.5 J	4.7	4 J	4 J	2 J	2 J	2 J
TCE	1 U	0.7 J	1 UJ	5 U	5 U	5 U	5 U	5 U
c-1,2-DCE	1 U	1 U	1 U	3 J	3 J	1 J	2 J	2 J
1,1-DCE	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1,1-TCA	1 U	0.8 J	1 UJ	5 U	5 U	5 U	5 U	5 U
1,1-DCA	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U

MW11D	2010	2011	2012	(dup)	2013	2014	2015
PCE	8.1	17 J	9	8	14	8	13
TCE	3 U	5.3	2.4 J	2.6	4 J	3 J	4 J
cis-1,2-DCE	1.2	1.9	1.1	1.2	1 J	1 J	2 J
1,1-DCE	4	5.2	2	2.5	3 J	2 J	4 J
1,1,1-TCA	1.8	2.1	0.82 J	1	1 J	5 U	5 U
1,1-DCA	2.5	3	1.6	2	2 J	2 J	2 J

NC-12	2013	2014	2015
PCE	5 U	5 U	5 U
TCE	5 U	5 U	5 U
cis-1,2-DCE	5 U	5 U	5 U
1,1-DCE	5 U	5 U	5 U
1,1,1-TCA	5 U	5 U	5 U
1,1-DCA	5 U	5 U	5 U

AECOM

Utility Manufacturing/Wonder King
700 – 712 Main Street
Westbury, New York

0 20 40 80
Feet

Legend

Monitoring Well

Concentrations exceeding the NYS Class GA criteria are in red.
Units: µg/L

The NYS Class GA criteria for all other parameters shown are 5 µg/L.

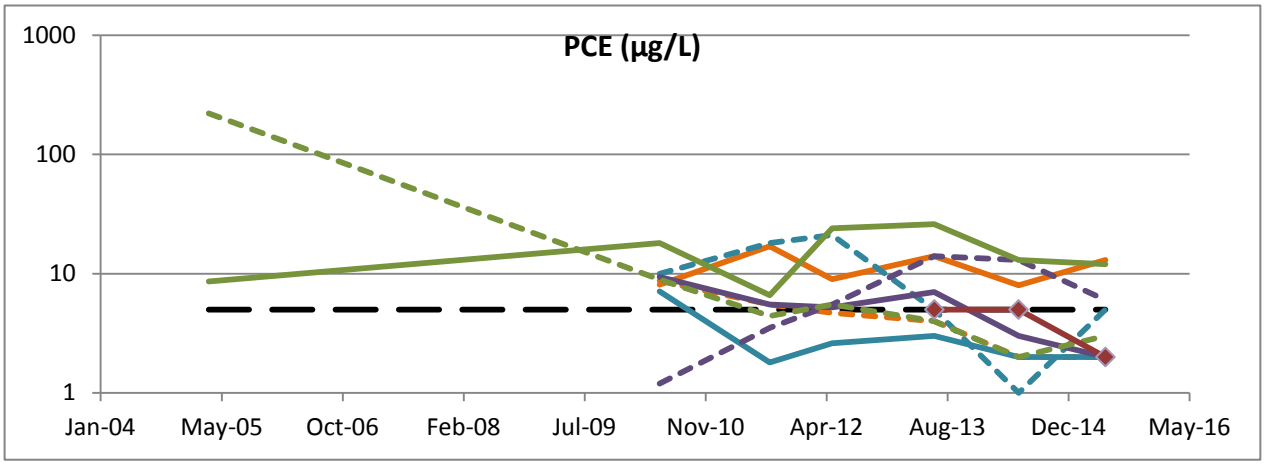
(dup) Environmental duplicate sample

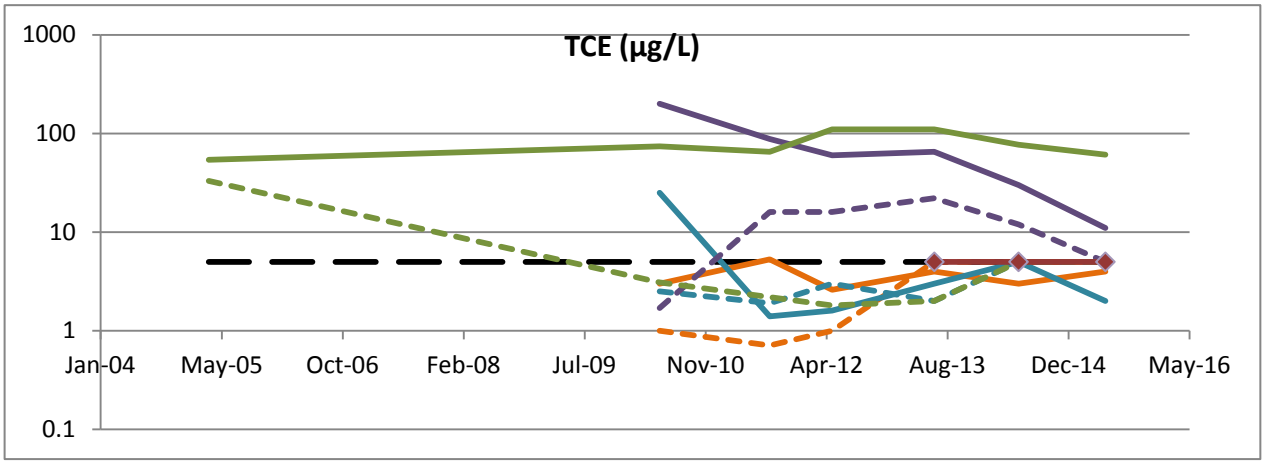
Groundwater Sampling Results

Project No: 60269807

Figure No: 5

10/29/2015





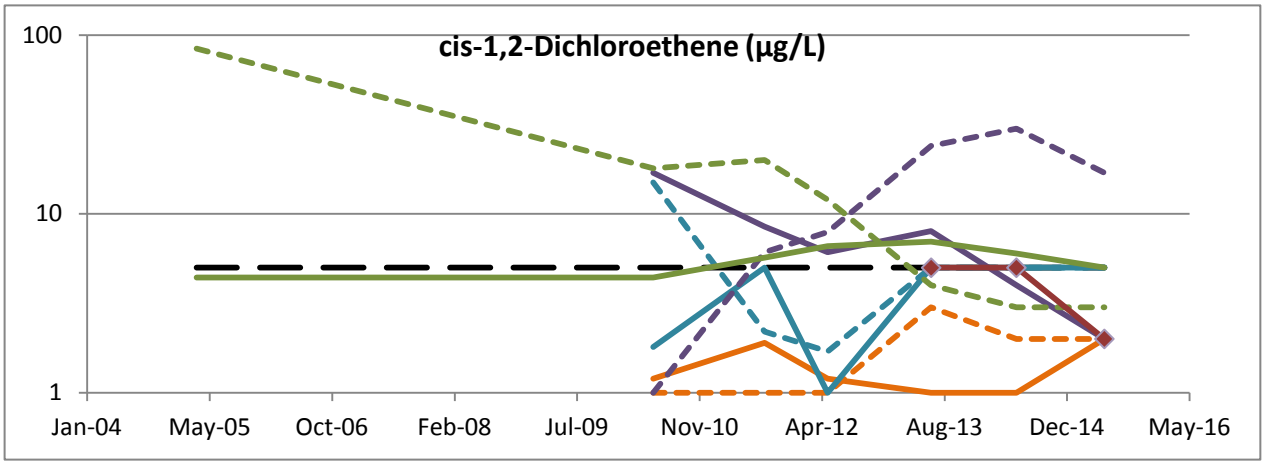
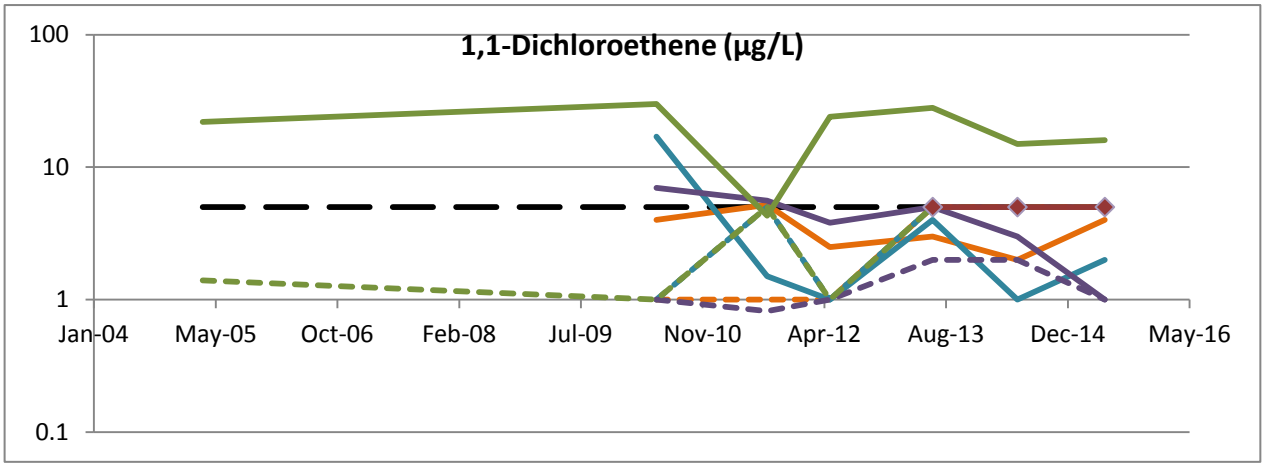


Figure 6

Groundwater VOC Concentrations over Time

Page 1 of 2



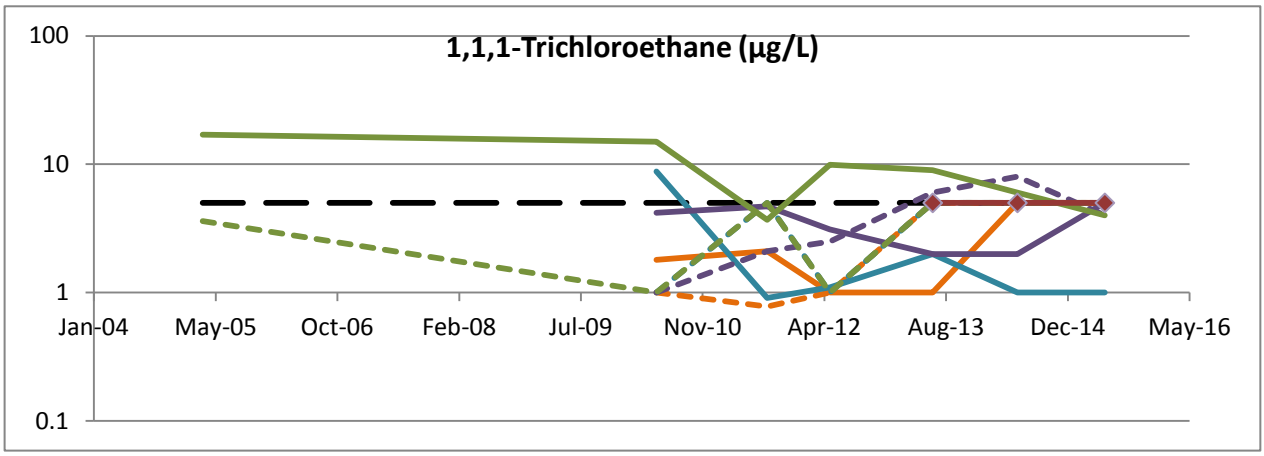
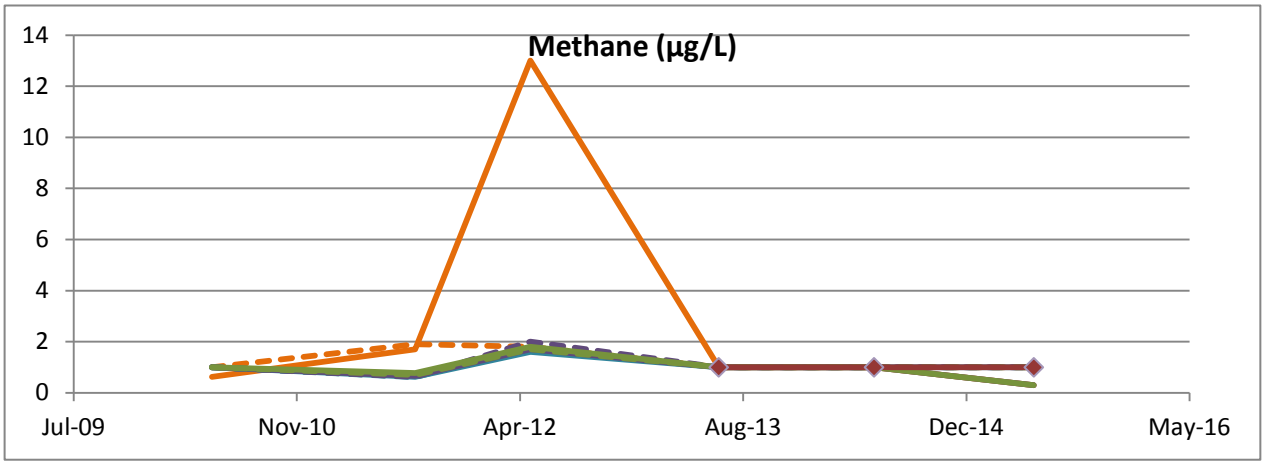


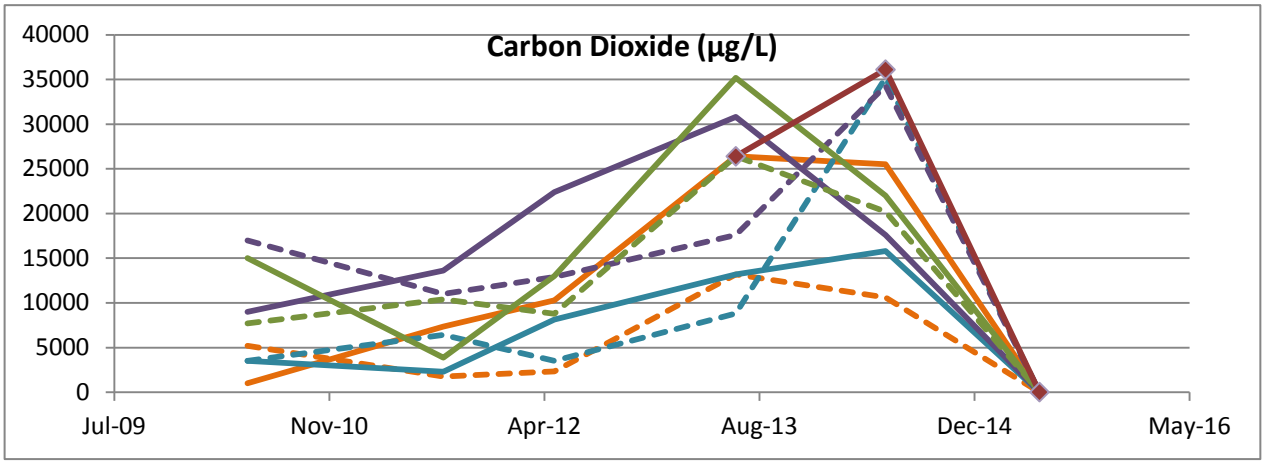
Figure 6

Groundwater VOC Concentrations over Time

Page 2 of 2

Standard
MW11D
MW11S
MW12D
MW12S
MW13D
MW13S
MW1D
MW1S
NC-12





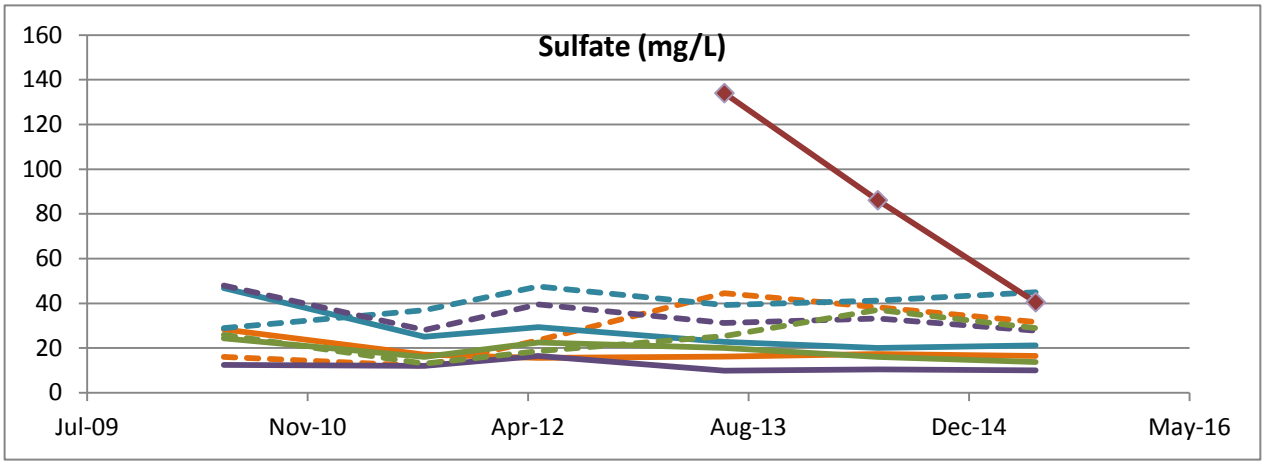
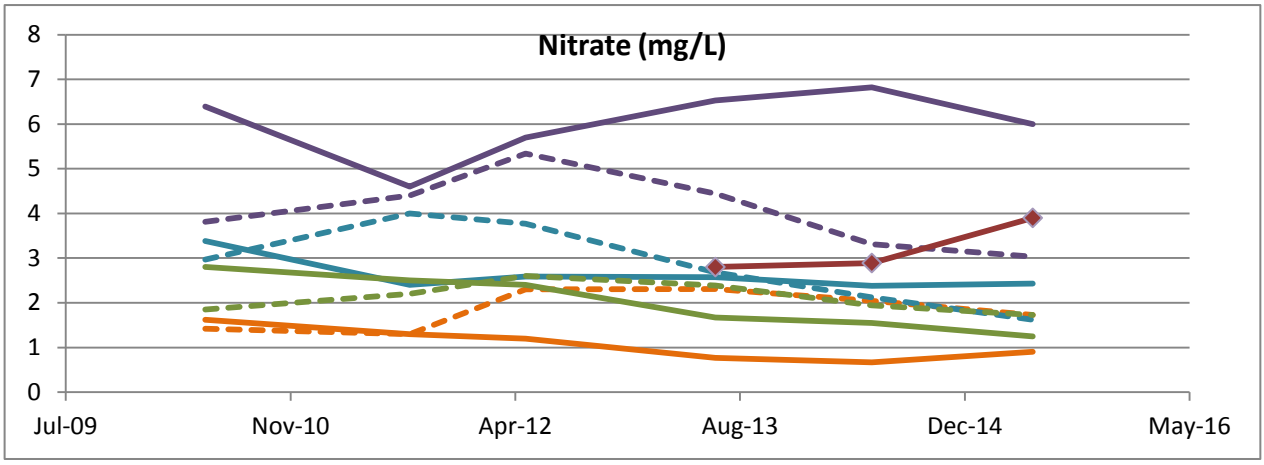


Figure 7

Groundwater MNA Parameter Concentrations over Time

Page 1 of 2

MW11D
MW11S
MW12D
MW12S
MW13D
MW13S
MW1D
MW1S
NC-12



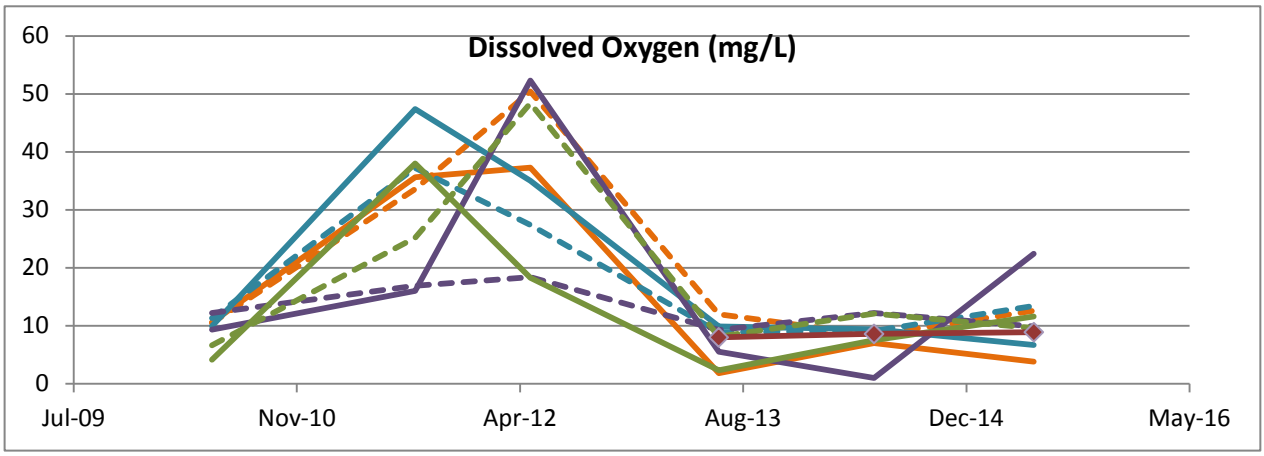


Figure 7

Groundwater MNA Parameter Concentrations over Time

Page 2 of 2

MW11D
MW11S
MW12D
MW12S
MW13D
MW13S
MW1D
MW1S
NC-12

APPENDIX A

Field Forms

AECOM

WELL NO. MW-1D

WELL SAMPLING FORM	PROJECT: Utility Manufacturing/Wonder King Site	PROJECT No.: 60269807	SHEET: 1 OF 1 SHEETS
LOCATION: Westbury, NY		DATE WELL STARTED: May 27, 2015	DATE WELL COMPLETED: May 27, 2015
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster (AECOM)	
DRILLING COMPANY: NA			

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS: Temp. (ºC)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (ntu)	REMARKS
1340	46.11								Static Level
1345									Pump on
1400	46.22	200	19.02	0.218	11.76	6.03	168	920	
1415	46.21	200	19.65	0.279	9.9	5.70	217	>1000	
1430	46.21	200	19.54	0.263	7.79	5.61	236	700	
1445	46.21	200	19.54	0.257	10.54	5.57	242	658	
1500	46.21	200	19.63	0.257	10.52	5.59	248	632	
1415	46.21	200	19.48	0.25	9.68	5.53	249	767	
1530	46.21	200	19.87	0.230	9.18	5.52	254	471	
1545	46.21	200	19.85	0.233	9.07	5.53	255	465	
1600	46.21	200	19.83	0.232	9.12	5.53	254	461	
1605	Sample MW-1D collected								

Pump Type: Bladder pump with dedicated tubing for sampling

Analytical Parameters: VOCs, methane, carbon dioxide, dissolved oxygen, iron

AECOM

WELL NO. MW-1S

WELL SAMPLING FORM	PROJECT: Utility Manufacturing/Wonder King Site	PROJECT No.: 60269807	SHEET: 1 OF 1 SHEETS
LOCATION: Westbury, NY		DATE WELL STARTED: May 28, 2015	DATE WELL COMPLETED: May 28, 2015
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster (AECOM)	
DRILLING COMPANY: NA			

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS: Temp. (ºC)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (ntu)	REMARKS
1115	46.21								Static Level
1125									Pump on
1130	46.21	200	17.08	0.263	8.2	5.6	280	245	
1140	46.21	200	17.03	0.234	10.04	5.54	283	59.4	
1150	46.21	200	17.02	0.233	9.32	5.53	286	58.7	
1200	46.21	200	17.09	0.233	9.96	5.51	303	30.7	
1215	46.21	200	17.04	0.233	7.65	5.53	305	15.7	
1225	46.21	200	17	0.238	7.77	5.53	297	11.7	
1230	46.21	200	16.99	0.236	7.46	5.5	310	9.4	
1235	46.21	200	17	0.237	7.49	5.51	313	10	
1245	46.21	200	16.98	0.236	7.42	5.5	314	9.5	
1255	Sample MW-1S Collected								

Pump Type: Bladder pump with dedicated tubing for sampling

Analytical Parameters: VOCs, methane, carbon dioxide, dissolved oxygen, iron

AECOM

WELL NO. MW-11D

WELL SAMPLING FORM	PROJECT: Utility Manufacturing/Wonder King Site	PROJECT No.: 60269807	SHEET: 1 OF 1 SHEETS
LOCATION: Westbury, NY		DATE WELL STARTED: May 27, 2015	DATE WELL COMPLETED: May 27, 2015
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster (AECOM)	
DRILLING COMPANY: E.A.R./Clearwater Drilling, Inc.			

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS: Temp. (ºC)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (ntu)	REMARKS
1030	42.1								Static Level
1040									Pump on
1045		200							Had to disconnect Horiba to fix connection
1050	48.85	200	17.23	0.341	3.97	5.84	171	>1000	
1100	48.12	200	15.93	0.328	1.62	5.86	172	>1000	
1115	48.1	200	15.72	0.309	1.5	5.77	199	521	
1130	48.15	200	15.81	0.302	1.57	5.66	204	384	
1145	48.13	200	15.72	0.302	1.47	5.69	204	398	
1200	48.12	200	15.26	0.301	1.46	5.69	205	402	
1205	Sample MW-11D Collected								

Pump Type: Bladder pump with dedicated tubing for sampling

Analytical Parameters: VOCs, methane, carbon dioxide, dissolved oxygen, iron

AECOM

WELL NO. MW-11S

WELL SAMPLING FORM	PROJECT: Utility Manufacturing/Wonder King Site	PROJECT No.: 60269807	SHEET: 1 OF 1 SHEETS
LOCATION: Westbury, NY		DATE WELL STARTED: May 27, 2015	DATE WELL COMPLETED: May 27, 2015
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster (AECOM)	
DRILLING COMPANY: E.A.R./Clearwater Drilling, Inc.			

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS: Temp. (ºC)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (ntu)	REMARKS
1000	47.17								Static Level
1015									Pump on
1025	45.32	250	15.49	0.614	7.89	6.86	228	625	
1040	45.32	250	15.11	0.558	7.9	6.05	267	22.8	
1050	45.31	250	15.08	0.556	7.92	6.03	275	7.4	
1055	45.31	250	15.09	0.552	8.03	6.02	280	4	
1100	45.31	250	15.09	0.552	8.04	6	284	3	
1105	45.31	250	15.1	0.551	8.03	6.03	286	2.4	
1110	Sample MW-11S Collected								
1115	Duplicate Sample MW-61S Collected								

Pump Type: Bladder pump with dedicated tubing for sampling

Analytical Parameters: VOCs, methane, carbon dioxide, dissolved oxygen, iron

AECOM

WELL NO. MW-12D

WELL SAMPLING FORM	PROJECT: Utility Manufacturing/Wonder King Site	PROJECT No.: 60269807	SHEET: 1 OF 1 SHEETS
LOCATION: Westbury, NY		DATE WELL STARTED: May 27, 2015	DATE WELL COMPLETED: May 27, 2015
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster (AECOM)	
DRILLING COMPANY: E.A.R./Clearwater Drilling, Inc.			

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS: Temp. (ºC)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (ntu)	REMARKS
1235	45.81								Static Level
1240									Pump on
1300	46.1	200	16.68	0.463	5.34	5.89	217	>1000	
1305	46.1	200	16.17	0.443	5.34	5.81	221	>1000	
1330	46.1	200	16.78	0.411	4.96	5.72	215	845	
1345	46.1	200	16.91	0.413	4.95	5.74	211	708	
1400	46.1	200	16.91	0.401	4.92	5.68	223	486	
1415	46.1	200	16.96	0.4	4.83	5.68	223	265	
1430	46.1	200	16.92	0.401	4.84	5.7	223	280	
1445	46.1	200	16.98	0.398	4.87	5.68	224	287	
1500	Sample MW-12D Collected								

Pump Type: Bladder pump with dedicated tubing for sampling

Analytical Parameters: VOCs, methane, carbon dioxide, dissolved oxygen, iron

AECOM

WELL NO. MW-12S

WELL SAMPLING FORM	PROJECT: Utility Manufacturing/Wonder King Site	PROJECT No.: 60269807	SHEET: 1 OF 1 SHEETS
LOCATION: Westbury, NY		DATE WELL STARTED: May 27, 2015	DATE WELL COMPLETED: May 27, 2015
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster (AECOM)	
DRILLING COMPANY: E.A.R./Clearwater Drilling, Inc.			

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS: Temp. (ºC)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (ntu)	REMARKS
1250	45.45								Static Level
1300									Pump on
1310	42.31	200	21.36	0.298	8.23	6.28	258	>1000	
1325	42.31	200	18.61	0.295	7.68	5.98	296	>1000	
1340	42.31	200	18.23	0.294	9.24	6.12	268	876	
1345	42.31	200	18.14	0.295	7.91	6.19	268	34.1	
1400	42.31	200	18.16	0.298	7.86	6.14	272	34.8	
1405	42.31	200	18.17	0.298	7.87	6.16	276	33.9	
1415	Sample MW-12S Collected								

Pump Type: Bladder pump with dedicated tubing for sampling

Analytical Parameters: VOCs, methane, carbon dioxide, dissolved oxygen, iron

AECOM

WELL NO. MW-13D

WELL SAMPLING FORM	PROJECT: Utility Manufacturing/Wonder King Site	PROJECT No.: 60269807	SHEET: 1 OF 1 SHEETS
LOCATION: Westbury, NY		DATE WELL STARTED: May 28, 2015	DATE WELL COMPLETED: May 28, 2015
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster (AECOM)	
DRILLING COMPANY: E.A.R./Clearwater Drilling, Inc.			

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS: Temp. (ºC)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (ntu)	REMARKS
0750	44.11								Static Level
0810									Pump on
0825	41.1	200	21.01	0.329	10.34	6.61	201	>1000	Very Turbid
0840	41.1	200	19.18	0.285	10.66	6.74	227	856	
0855	41.1	200	19.37	0.279	10.27	6.68	232	581	
0905	41.1	200	19.34	0.278	10.42	6.63	232	251	
0915	41.1	200	19.2	0.28	10.37	6.64	230	229	
0930	41.1	200	19.17	0.277	10.59	6.61	233	180	
0945	41.1	200	18.78	0.268	11.64	6.53	237	150	
1000	41.1	200	18.41	0.267	12.02	6.55	234	698	
1010	41.1	200	18.45	0.268	11.99	6.54	235	701	
1020	41.1	200	17.9	0.282	10.69	6.56	232	678	
1030	41.1	200	17.88	0.281	10.46	6.55	233	683	
1040	41.1	200	17.87	0.281	10.49	6.54	232	680	
1045	Sample MW-13D Collected								

Pump Type: Bladder pump with dedicated tubing for sampling

Analytical Parameters: VOCs, methane, carbon dioxide, dissolved oxygen, iron

AECOM

WELL NO. MW-13S

WELL SAMPLING FORM	PROJECT: Utility Manufacturing/Wonder King Site	PROJECT No.: 60269807	SHEET: 1 OF 1 SHEETS
LOCATION: Westbury, NY		DATE WELL STARTED: May 28, 2015	DATE WELL COMPLETED: May 28, 2015
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster (AECOM)	
DRILLING COMPANY: E.A.R./Clearwater Drilling, Inc.			

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS: Temp. (ºC)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (ntu)	REMARKS
0815	43.94								Static Level
0825									Pump on
0835	43.7	200	18.29	0.46	5.52	5.93	277	394	
0845	43.7	200	18.09	0.521	5	5.79	285	67.2	
0855	43.7	200	18.13	0.529	4.84	5.78	289	32.9	
0905	43.7	200	17.66	0.538	5.16	5.69	290	11.7	
0915	43.7	200	17.6	0.548	4.94	5.66	293	8.8	
0930	43.7	200	17.29	0.548	4.8	5.68	295	9	
0940	43.7	200	17.23	0.548	4.77	5.69	298	9.3	
0945	Sample MW-13S Collected								

Pump Type: Bladder pump with dedicated tubing for sampling

Analytical Parameters: VOCs, methane, carbon dioxide, dissolved oxygen, iron

AECOM

WELL NO. NC-12

WELL SAMPLING FORM	PROJECT: Utility Manufacturing/Wonder King Site	PROJECT No.: 60269807	SHEET: 1 OF SHEETS: 1
LOCATION: Westbury, NY		DATE WELL STARTED: May 28, 2015	DATE WELL COMPLETED: May 28, 2015
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster (AECOM)	
DRILLING COMPANY: NA			

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS: Temp. (ºC)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (ntu)	REMARKS
1325	47.44								Static Level
1330									Pump on
1340	47.44	200	17.81	3.05	13.49	6.16	245	57.7	
1345	47.44	200	17.6	3.06	7.77	6.15	249	28.2	
1355	47.44	200	17.54	3.07	7.42	6.12	251	26.9	
1410	47.44	200	17.38	3.09	7.78	6.09	241	3.3	
1425	47.44	200	17.36	3.09	7.59	6.09	242	3.6	
1440	47.44	200	17.36	3.09	7.53	6.09	242	3.3	
1445	Sample NC-12 Collected								

Pump Type: Bladder pump with dedicated tubing for sampling

Analytical Parameters: VOCs, methane, carbon dioxide, dissolved oxygen, iron

Utility Manufacturing Site/Wonder King, New Cassel, NY
WA # D007626-16
NYSDEC Site: 130043H

Well Inspection Checklist

Well ID: MW-1S	**Date:** 5/28/2015
Type: Flushmount	
Stickup Height: NA	
As Built Well Depth: 90 ft	**Stickup Material:** NA
Riser Diameter: 2 inch	**Stickup Diameter:** NA
Riser Material: PVC	
Riser Appearance: Ok	**Inspector:** C Foster (AECOM)

CONDITION
Signs of Vandalism: No
Cannot Locate: No
Locked: Yes
Inner Cap: Yes
Protective Casing Loose: No
Concrete Pad: Ok
Soil Erosion: No
Ponded Water: No
Well Marked: No
Cannot Identify: No
Depth to water from TOC: 46.21 ft
Depth to bottom from TOC: NM
Does well appear: SILTED UP [No] HARD BOTTOM [No] OTHER: None
Obstruction in well: No
PID reading: 0 ppm
Active pump in well: No
Comments: None

Utility Manufacturing Site/Wonder King, New Cassel, NY
WA # D007626-16
NYSDEC Site: 130043H

Well Inspection Checklist

Well ID: MW-1D	**Date:** 5/28/2015
Type: Flushmount	
Stickup Height: NA	
As Built Well Depth: 130 ft	**Stickup Material:** NA
Riser Diameter: 2 inch	**Stickup Diameter:** NA
Riser Material: PVC	
Riser Appearance: Ok	**Inspector:** C Foster (AECOM)

CONDITION
Signs of Vandalism: No
Cannot Locate: No
Locked: Yes
Inner Cap: Yes
Protective Casing Loose: No
Concrete Pad: Ok
Soil Erosion: No
Ponded Water: No
Well Marked: No
Cannot Identify: No
Depth to water from TOC: 46.18 ft
Depth to bottom from TOC: NM
Does well appear: SILTED UP [No] HARD BOTTOM [No] OTHER: None
Obstruction in well: No
PID reading: 0 ppm
Active pump in well: No
Comments: None

Utility Manufacturing Site/Wonder King, New Cassel, NY
WA # D007626-16
NYSDEC Site: 130043H

Well Inspection Checklist

Well ID: MW-11S	**Date:** 5/28/2015
Type: Flushmount	
Stickup Height: NA	
As Built Well Depth: 95 ft	**Stickup Material:** NA
Riser Diameter: 2 inch	**Stickup Diameter:** NA
Riser Material: PVC	
Riser Appearance: Ok	**Inspector:** C Foster (AECOM)

CONDITION
Signs of Vandalism: No
Cannot Locate: No
Locked: Yes
Inner Cap: Yes
Protective Casing Loose: No
Concrete Pad: Ok
Soil Erosion: No
Ponded Water: No
Well Marked: No
Cannot Identify: No
Depth to water from TOC: 47.20 ft
Depth to bottom from TOC: NM
Does well appear: SILTED UP [No] HARD BOTTOM [No] OTHER: None
Obstruction in well: No
PID reading: 0 ppm
Active pump in well: No
Comments: None

Utility Manufacturing Site/Wonder King, New Cassel, NY
WA # D007626-16
NYSDEC Site: 130043H

Well Inspection Checklist

Well ID: MW-11D	**Date:** 5/28/2015
Type: Flushmount	
Stickup Height: NA	
As Built Well Depth: 124 ft	**Stickup Material:** NA
Riser Diameter: 2 inch	**Stickup Diameter:** NA
Riser Material: PVC	
Riser Appearance: Ok	**Inspector:** C Foster (AECOM)

CONDITION
Signs of Vandalism: No
Cannot Locate: No
Locked: Yes
Inner Cap: Yes
Protective Casing Loose: No
Concrete Pad: Ok
Soil Erosion: No
Ponded Water: No
Well Marked: No
Cannot Identify: No
Depth to water from TOC: 47.13 ft
Depth to bottom from TOC: NM
Does well appear: SILTED UP [No] HARD BOTTOM [No] OTHER: None
Obstruction in well: No
PID reading: 0 ppm
Active pump in well: No
Comments: None

Utility Manufacturing Site/Wonder King, New Cassel, NY
WA # D007626-16
NYSDEC Site: 130043H

Well Inspection Checklist

Well ID: MW-12S	**Date:** 5/28/2015
Type: Flushmount	
Stickup Height: NA	
As Built Well Depth: 95 ft	**Stickup Material:** NA
Riser Diameter: 2 inch	**Stickup Diameter:** NA
Riser Material: PVC	
Riser Appearance: Ok	**Inspector:** C Foster (AECOM)

CONDITION
Signs of Vandalism: No
Cannot Locate: No
Locked: Yes
Inner Cap: Yes
Protective Casing Loose: No
Concrete Pad: Ok
Soil Erosion: No
Ponded Water: No
Well Marked: No
Cannot Identify: No
Depth to water from TOC: 45.43 ft
Depth to bottom from TOC: NM
Does well appear: SILTED UP [No] HARD BOTTOM [No] OTHER: None
Obstruction in well: No
PID reading: 0 ppm
Active pump in well: No
Comments: None

Utility Manufacturing Site/Wonder King, New Cassel, NY
WA # D007626-16
NYSDEC Site: 130043H

Well Inspection Checklist

Well ID: MW-12D	**Date:** 5/28/2015
Type: Flushmount	
Stickup Height: NA	
As Built Well Depth: 125 ft	**Stickup Material:** NA
Riser Diameter: 2 inch	**Stickup Diameter:** NA
Riser Material: PVC	
Riser Appearance: Ok	**Inspector:** C Foster (AECOM)

CONDITION
Signs of Vandalism: No
Cannot Locate: No
Locked: Yes
Inner Cap: Yes
Protective Casing Loose: No
Concrete Pad: Ok
Soil Erosion: No
Ponded Water: No
Well Marked: No
Cannot Identify: No
Depth to water from TOC: 45.82 ft
Depth to bottom from TOC: NM
Does well appear: SILTED UP [No] HARD BOTTOM [No] OTHER: None
Obstruction in well: No
PID reading: 0 ppm
Active pump in well: No
Comments: None

Utility Manufacturing Site/Wonder King, New Cassel, NY
WA # D007626-16
NYSDEC Site: 130043H

Well Inspection Checklist

Well ID: MW-13S	**Date:** 5/28/2015
Type: Flushmount	
Stickup Height: NA	
As Built Well Depth: 96 ft	**Stickup Material:** NA
Riser Diameter: 2 inch	**Stickup Diameter:** NA
Riser Material: PVC	
Riser Appearance: Ok	**Inspector:** C Foster (AECOM)

CONDITION
Signs of Vandalism: No
Cannot Locate: No
Locked: Yes
Inner Cap: Yes
Protective Casing Loose: No
Concrete Pad: Ok
Soil Erosion: No
Ponded Water: No
Well Marked: No
Cannot Identify: No
Depth to water from TOC: 43.97 ft
Depth to bottom from TOC: NM
Does well appear: SILTED UP [No] HARD BOTTOM [No] OTHER: None
Obstruction in well: No
PID reading: 0 ppm
Active pump in well: No
Comments: None

Utility Manufacturing Site/Wonder King, New Cassel, NY
WA # D007626-16
NYSDEC Site: 130043H

Well Inspection Checklist

Well ID: MW-13D	**Date:** 5/28/2015
Type: Flushmount	
Stickup Height: NA	
As Built Well Depth: 126 ft	**Stickup Material:** NA
Riser Diameter: 2 inch	**Stickup Diameter:** NA
Riser Material: PVC	
Riser Appearance: Ok	**Inspector:** C Foster (AECOM)

CONDITION
Signs of Vandalism: No
Cannot Locate: No
Locked: Yes
Inner Cap: Yes
Protective Casing Loose: No
Concrete Pad: Ok
Soil Erosion: No
Ponded Water: No
Well Marked: No
Cannot Identify: No
Depth to water from TOC: 44.11 ft
Depth to bottom from TOC: NM
Does well appear: SILTED UP [No] HARD BOTTOM [No] OTHER: None
Obstruction in well: No
PID reading: 0 ppm
Active pump in well: No
Comments: None

Utility Manufacturing Site/Wonder King, New Cassel, NY
WA # D007626-16
NYSDEC Site: 130043H

Well Inspection Checklist

Well ID: NC-12	**Date:** 5/28/2015
Type: Flushmount	
Stickup Height: NA	
As Built Well Depth: 54 ft	**Stickup Material:** NA
Riser Diameter: 2 inch	**Stickup Diameter:** NA
Riser Material: PVC	
Riser Appearance: Ok	**Inspector:** C Foster (AECOM)

CONDITION
Signs of Vandalism: No
Cannot Locate: No
Locked: No
Inner Cap: Yes
Protective Casing Loose: No
Concrete Pad: Ok
Soil Erosion: No
Ponded Water: No
Well Marked: No
Cannot Identify: No
Depth to water from TOC: 47.44 ft
Depth to bottom from TOC: NM
Does well appear: SILTED UP [No] HARD BOTTOM [No] OTHER: None
Obstruction in well: No
PID reading: 0 ppm
Active pump in well: No
Comments: None

APPENDIX B

Data Usability Summary Reports

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
UTILITY MANUFACTURING/WONDER KING, NEW CASSELL, NEW YORK

Client: AECOM Technical Services, Inc., Chestnut Ridge, New York
SDG: AECOM238
Laboratory: Pace Analytical, Melville, New York
Site: Utility Manufacturing/Wonder King, New Cassell, New York
Date: July 30, 2015

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-11S	1505J73-001	Water
1MS	MW-11SMS	1505J73-001MS	Water
1MSD	MW-11SMSD	1505J73-001MSD	Water
2	MW-11D	1505J73-002	Water
3	MW-12S	1505J73-003	Water
4	MW-12D	1505J73-004	Water
5	MW-1D	1505J73-005	Water
6	MW-61S	1505J73-006	Water
7	TRIP BLANK	1505J73-007	Water
8	MW-1S	1505L06-001	Water
9	MW-13D	1505L06-002	Water
10	MW-13S	1505L06-003	Water
11	NC-12	1505L06-004	Water
12	TB	1505L06-005	Water
13	STORAGE BLANK	1505L06-006	Water

A Data Usability Summary Review was performed on the analytical data for ten water samples, two aqueous trip blank samples, and one aqueous storage blank sample collected on May 27-28, 2015 by AECOM at the Utility Manufacturing/Wonder King site in New Cassell, New York. The samples were analyzed under Environmental Protection Agency (USEPA) *"Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions".*

Specific method references are as follows:

Analysis	*Method References*
VOCs	USEPA SW-846 Method 8260B

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

- SOP Number HW-24, Revision 4, September 2014: Validating Volatile Organic Compounds by SW-846 Method 8260B & 8260C;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

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

Overall Usability Issues:

There were no rejections of data.

Overall the data is acceptable for the intended purposes as qualified for the following deficiencies.

- cis-1,2-Dichloroethene was qualified as estimated in one sample due to a high MS/MSD recovery.
- Two compounds were qualified as estimated in all samples due to high continuing calibration %D values.

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

Data Completeness

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

Volatile Organic Compounds (VOCs)

Holding Times

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

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries.

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

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

MS/MSD Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
1	Bromomethane	143%/147%/OK	None - Sample ND
	Trichlorofluoromethane	166%/166%/OK	None - Sample ND
	1,1-Dichloroethene	144%/147%/OK	None - Sample ND
	1,1,1-Trichloroethane	130%/135%/OK	None - Sample ND
	trans-1,2-Dichloroethene	OK/137%/OK	None - ND
	cis-1,2-Dichloroethene	OK/135%/OK	J

Laboratory Control Samples

- The LCS samples exhibited acceptable recoveries.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
TRIP BLANK	ND	-	-	-
TB	ND	-	-	-
STORAGE BLANK	ND	-	-	-

GC/MS Tuning

- All criteria were met.

Initial Calibration

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

Continuing Calibration

- The following table presents compounds that exceeded 30 percent difference (%D) and/or RRF values <0.05 (0.01 for poor performers) in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
06/03/15	Dichlorodifluoromethane	50.6%	J/UJ	All Samples
	Bromomethane	35.2%	J/UJ	

Compound Quantitation

- All criteria were met.

Internal Standard (IS) Area Performance

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

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision is acceptable.

VOC				
Compound	MW-11S ug/L	MW-61S ug/L	RPD	Qualifier
1,2-Dichloroethene (total)	2	2	0%	None
cis-1,2-Dichloroethene	2	2	0%	
Tetrachloroethene	2	2	0%	

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 7/31/15

Nancy Weaver
Senior Chemist

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-11S

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505J73-001A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32978

Level: (low/med) LOW Date Received: 05/27/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q	
75-71-8	Dichlorodifluoromethane	5	~~U~~	UJ
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl chloride	5	U	
74-83-9	Bromomethane	5	~~U~~	UJ
75-00-3	Chloroethane	5	U	
75-69-4	Trichlorofluoromethane	5	U	
75-35-4	1,1-Dichloroethene	5	U	
67-64-1	Acetone	5	U	
75-15-0	Carbon disulfide	5	U	
79-20-9	Methyl Acetate	5	U	
75-09-2	Methylene chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl tert-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
540-59-0	1,2-Dichloroethene (total)	2		J
156-59-2	cis-1,2-Dichloroethene	2	~~U~~	J
78-93-3	2-Butanone	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
110-82-7	Cyclohexane	5	U	
56-23-5	Carbon tetrachloride	5	U	
71-43-2	Benzene	5	U	
107-06-2	1,2-Dichloroethane	5	U	
79-01-6	Trichloroethene	5	U	
108-87-2	Methylcyclohexane	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-pentanone	5	U	
108-88-3	Toluene	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
127-18-4	Tetrachloroethene	2	J	
591-78-6	2-Hexanone	5	U	
124-48-1	Dibromochloromethane	5	U	

MW 7/30/15

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-11S

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505J73-001A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32978

Level: (low/med) LOW Date Received: 05/27/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

MW7130115

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-11D

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505J73-002A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32982

Level: (low/med) LOW Date Received: 05/27/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q	
75-71-8	Dichlorodifluoromethane	5	~~U~~	UJ
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl chloride	5	U	
74-83-9	Bromomethane	5	~~U~~	UJ
75-00-3	Chloroethane	5	U	
75-69-4	Trichlorofluoromethane	5	U	
75-35-4	1,1-Dichloroethene	4	J	
67-64-1	Acetone	5	U	
75-15-0	Carbon disulfide	5	U	
79-20-9	Methyl Acetate	5	U	
75-09-2	Methylene chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl tert-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	2	J	
540-59-0	1,2-Dichloroethene (total)	2		
156-59-2	cis-1,2-Dichloroethene	2	J	
78-93-3	2-Butanone	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
110-82-7	Cyclohexane	5	U	
56-23-5	Carbon tetrachloride	5	U	
71-43-2	Benzene	5	U	
107-06-2	1,2-Dichloroethane	5	U	
79-01-6	Trichloroethene	4	J	
108-87-2	Methylcyclohexane	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-pentanone	5	U	
108-88-3	Toluene	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
127-18-4	Tetrachloroethene	13		
591-78-6	2-Hexanone	5	U	
124-48-1	Dibromochloromethane	5	U	

MW 7/30/15

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-11D

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505J73-002A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32982

Level: (low/med) LOW Date Received: 05/27/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

3

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12S

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505J73-003A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32983

Level: (low/med) LOW Date Received: 05/27/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q	
75-71-8	Dichlorodifluoromethane	5	~~U~~	UJ
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl chloride	5	U	
74-83-9	Bromomethane	5	~~U~~	UJ
75-00-3	Chloroethane	5	U	
75-69-4	Trichlorofluoromethane	5	U	
75-35-4	1,1-Dichloroethene	5	U	
67-64-1	Acetone	5	U	
75-15-0	Carbon disulfide	5	U	
79-20-9	Methyl Acetate	5	U	
75-09-2	Methylene chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl tert-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
540-59-0	1,2-Dichloroethene (total)	5	U	
156-59-2	cis-1,2-Dichloroethene	5	U	
78-93-3	2-Butanone	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
110-82-7	Cyclohexane	5	U	
56-23-5	Carbon tetrachloride	5	U	
71-43-2	Benzene	5	U	
107-06-2	1,2-Dichloroethane	5	U	
79-01-6	Trichloroethene	5	U	
108-87-2	Methylcyclohexane	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-pentanone	5	U	
108-88-3	Toluene	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
127-18-4	Tetrachloroethene	5	U	
591-78-6	2-Hexanone	5	U	
124-48-1	Dibromochloromethane	5	U	

MW 7/30/15

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12S

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505J73-003A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32983

Level: (low/med) LOW Date Received: 05/27/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

MW 7/30/15

4

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12D

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505J73-004A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32984

Level: (low/med) LOW Date Received: 05/27/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q	
75-71-8	Dichlorodifluoromethane	5	~~U~~	UJ
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl chloride	5	U	
74-83-9	Bromomethane	5	~~U~~	UJ
75-00-3	Chloroethane	5	U	
75-69-4	Trichlorofluoromethane	5	U	
75-35-4	1,1-Dichloroethene	2	J	
67-64-1	Acetone	5	U	
75-15-0	Carbon disulfide	5	U	
79-20-9	Methyl Acetate	5	U	
75-09-2	Methylene chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl tert-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
540-59-0	1,2-Dichloroethene (total)	5	U	
156-59-2	cis-1,2-Dichloroethene	5	U	
78-93-3	2-Butanone	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	1	J	
110-82-7	Cyclohexane	5	U	
56-23-5	Carbon tetrachloride	5	U	
71-43-2	Benzene	5	U	
107-06-2	1,2-Dichloroethane	5	U	
79-01-6	Trichloroethene	2	J	
108-87-2	Methylcyclohexane	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-pentanone	5	U	
108-88-3	Toluene	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
127-18-4	Tetrachloroethene	2	J	
591-78-6	2-Hexanone	5	U	
124-48-1	Dibromochloromethane	5	U	

MW 7/30/15

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12D

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505J73-004A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32984

Level: (low/med) LOW Date Received: 05/27/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

mw 7/30/15

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1D

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505J73-005A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32986

Level: (low/med) LOW Date Received: 05/27/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q	
75-71-8	Dichlorodifluoromethane	5	~~U~~	UJ
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl chloride	5	U	
74-83-9	Bromomethane	5	~~U~~	UJ
75-00-3	Chloroethane	5	U	
75-69-4	Trichlorofluoromethane	5	U	
75-35-4	1,1-Dichloroethene	16		
67-64-1	Acetone	5	U	
75-15-0	Carbon disulfide	5	U	
79-20-9	Methyl Acetate	5	U	
75-09-2	Methylene chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl tert-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	2	J	
540-59-0	1,2-Dichloroethene (total)	5		
156-59-2	cis-1,2-Dichloroethene	5		
78-93-3	2-Butanone	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	4	J	
110-82-7	Cyclohexane	5	U	
56-23-5	Carbon tetrachloride	5	U	
71-43-2	Benzene	5	U	
107-06-2	1,2-Dichloroethane	5	U	
79-01-6	Trichloroethene	61		
108-87-2	Methylcyclohexane	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-pentanone	5	U	
108-88-3	Toluene	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
127-18-4	Tetrachloroethene	12		
591-78-6	2-Hexanone	5	U	
124-48-1	Dibromochloromethane	5	U	

MW 7/30/15

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1D

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505J73-005A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32986

Level: (low/med) LOW Date Received: 05/27/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

MW 7/30/15

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-618

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505J73-006A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32985

Level: (low/med) LOW Date Received: 05/27/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q	
75-71-8	Dichlorodifluoromethane	5	~~U~~	UJ
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl chloride	5	U	
74-83-9	Bromomethane	5	~~U~~	UJ
75-00-3	Chloroethane	5	U	
75-69-4	Trichlorofluoromethane	5	U	
75-35-4	1,1-Dichloroethene	5	U	
67-64-1	Acetone	5	U	
75-15-0	Carbon disulfide	5	U	
79-20-9	Methyl Acetate	5	U	
75-09-2	Methylene chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl tert-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
540-59-0	1,2-Dichloroethene (total)	2		
156-59-2	cis-1,2-Dichloroethene	2	J	
78-93-3	2-Butanone	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
110-82-7	Cyclohexane	5	U	
56-23-5	Carbon tetrachloride	5	U	
71-43-2	Benzene	5	U	
107-06-2	1,2-Dichloroethane	5	U	
79-01-6	Trichloroethene	5	U	
108-87-2	Methylcyclohexane	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-pentanone	5	U	
108-88-3	Toluene	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
127-18-4	Tetrachloroethene	2	J	
591-78-6	2-Hexanone	5	U	
124-48-1	Dibromochloromethane	5	U	

MW 7/30/15

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-61S

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505J73-006A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32985

Level: (low/med) LOW Date Received: 05/27/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

7

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Trip Blank

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505J73-007A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32977

Level: (low/med) LOW Date Received: 05/27/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q	
75-71-8	Dichlorodifluoromethane	5	~~U~~	UJ
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl chloride	5	U	
74-83-9	Bromomethane	5	~~U~~	UJ
75-00-3	Chloroethane	5	U	
75-69-4	Trichlorofluoromethane	5	U	
75-35-4	1,1-Dichloroethene	5	U	
67-64-1	Acetone	5	U	
75-15-0	Carbon disulfide	5	U	
79-20-9	Methyl Acetate	5	U	
75-09-2	Methylene chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl tert-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
540-59-0	1,2-Dichloroethene (total)	5	U	
156-59-2	cis-1,2-Dichloroethene	5	U	
78-93-3	2-Butanone	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
110-82-7	Cyclohexane	5	U	
56-23-5	Carbon tetrachloride	5	U	
71-43-2	Benzene	5	U	
107-06-2	1,2-Dichloroethane	5	U	
79-01-6	Trichloroethene	5	U	
108-87-2	Methylcyclohexane	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-pentanone	5	U	
108-88-3	Toluene	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
127-18-4	Tetrachloroethene	5	U	
591-78-6	2-Hexanone	5	U	
124-48-1	Dibromochloromethane	5	U	

NW 7/30/15

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Trip Blank

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505J73-007A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32977

Level: (low/med) LOW Date Received: 05/27/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1S

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505L06-001A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32990

Level: (low/med) LOW Date Received: 05/28/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q	
75-71-8	Dichlorodifluoromethane	5	~~U~~	UJ
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl chloride	5	U	
74-83-9	Bromomethane	5	~~U~~	UJ
75-00-3	Chloroethane	5	U	
75-69-4	Trichlorofluoromethane	5	U	
75-35-4	1,1-Dichloroethene	5	U	
67-64-1	Acetone	5	U	
75-15-0	Carbon disulfide	5	U	
79-20-9	Methyl Acetate	5	U	
75-09-2	Methylene chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl tert-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
540-59-0	1,2-Dichloroethene (total)	3		
156-59-2	cis-1,2-Dichloroethene	3	J	
78-93-3	2-Butanone	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
110-82-7	Cyclohexane	5	U	
56-23-5	Carbon tetrachloride	5	U	
71-43-2	Benzene	5	U	
107-06-2	1,2-Dichloroethane	5	U	
79-01-6	Trichloroethene	5	U	
108-87-2	Methylcyclohexane	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-pentanone	5	U	
108-88-3	Toluene	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
127-18-4	Tetrachloroethene	3	J	
591-78-6	2-Hexanone	5	U	
124-48-1	Dibromochloromethane	5	U	

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1S

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505L06-001A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32990

Level: (low/med) LOW Date Received: 05/28/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13D

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505L06-002A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32991

Level: (low/med) LOW Date Received: 05/28/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q	
75-71-8	Dichlorodifluoromethane	5	~~U~~	UJ
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl chloride	5	U	
74-83-9	Bromomethane	5	~~U~~	UJ
75-00-3	Chloroethane	5	U	
75-69-4	Trichlorofluoromethane	5	U	
75-35-4	1,1-Dichloroethene	1	J	
67-64-1	Acetone	5	U	
75-15-0	Carbon disulfide	5	U	
79-20-9	Methyl Acetate	5	U	
75-09-2	Methylene chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl tert-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
540-59-0	1,2-Dichloroethene (total)	2		
156-59-2	cis-1,2-Dichloroethene	2	J	
78-93-3	2-Butanone	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
110-82-7	Cyclohexane	5	U	
56-23-5	Carbon tetrachloride	5	U	
71-43-2	Benzene	5	U	
107-06-2	1,2-Dichloroethane	5	U	
79-01-6	Trichloroethene	11		
108-87-2	Methylcyclohexane	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-pentanone	5	U	
108-88-3	Toluene	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
127-18-4	Tetrachloroethene	2	J	
591-78-6	2-Hexanone	5	U	
124-48-1	Dibromochloromethane	5	U	

MW713015

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13D

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505L06-002A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32991

Level: (low/med) LOW Date Received: 05/28/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

MW 7/30/15

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13S

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505L06-003A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32992

Level: (low/med) LOW Date Received: 05/28/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q	
75-71-8	Dichlorodifluoromethane	5	~~U~~	UJ
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl chloride	5	U	
74-83-9	Bromomethane	5	~~U~~	UJ
75-00-3	Chloroethane	5	U	
75-69-4	Trichlorofluoromethane	5	U	
75-35-4	1,1-Dichloroethene	1	J	
67-64-1	Acetone	5	U	
75-15-0	Carbon disulfide	5	U	
79-20-9	Methyl Acetate	5	U	
75-09-2	Methylene chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl tert-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	10		
540-59-0	1,2-Dichloroethene (total)	18		
156-59-2	cis-1,2-Dichloroethene	17		
78-93-3	2-Butanone	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	4	J	
110-82-7	Cyclohexane	5	U	
56-23-5	Carbon tetrachloride	5	U	
71-43-2	Benzene	5	U	
107-06-2	1,2-Dichloroethane	5	U	
79-01-6	Trichloroethene	5		
108-87-2	Methylcyclohexane	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-pentanone	5	U	
108-88-3	Toluene	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
127-18-4	Tetrachloroethene	6		
591-78-6	2-Hexanone	5	U	
124-48-1	Dibromochloromethane	5	U	

MW 7/30/15

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13S

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505L06-003A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32992

Level: (low/med) LOW Date Received: 05/28/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

MW 7/30/15

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NC-12

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505L06-004A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32989

Level: (low/med) LOW Date Received: 05/28/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q	
75-71-8	Dichlorodifluoromethane	5	~~U~~	UJ
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl chloride	5	U	
74-83-9	Bromomethane	5	~~U~~	UJ
75-00-3	Chloroethane	5	U	
75-69-4	Trichlorofluoromethane	5	U	
75-35-4	1,1-Dichloroethene	5	U	
67-64-1	Acetone	5	U	
75-15-0	Carbon disulfide	5	U	
79-20-9	Methyl Acetate	5	U	
75-09-2	Methylene chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl tert-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
540-59-0	1,2-Dichloroethene (total)	5	U	
156-59-2	cis-1,2-Dichloroethene	5	U	
78-93-3	2-Butanone	5	U	
67-66-3	Chloroform	1	J	
71-55-6	1,1,1-Trichloroethane	5	U	
110-82-7	Cyclohexane	5	U	
56-23-5	Carbon tetrachloride	5	U	
71-43-2	Benzene	5	U	
107-06-2	1,2-Dichloroethane	5	U	
79-01-6	Trichloroethene	5	U	
108-87-2	Methylcyclohexane	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-pentanone	5	U	
108-88-3	Toluene	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
127-18-4	Tetrachloroethene	5	U	
591-78-6	2-Hexanone	5	U	
124-48-1	Dibromochloromethane	5	U	

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NC-12

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505L06-004A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32989

Level: (low/med) LOW Date Received: 05/28/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

MW 7/30/15

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505L06-005A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32988

Level: (low/med) LOW Date Received: 05/28/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q	
75-71-8	Dichlorodifluoromethane	5	~~U~~	UJ
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl chloride	5	U	
74-83-9	Bromomethane	5	~~U~~	UJ
75-00-3	Chloroethane	5	U	
75-69-4	Trichlorofluoromethane	5	U	
75-35-4	1,1-Dichloroethene	5	U	
67-64-1	Acetone	5	U	
75-15-0	Carbon disulfide	5	U	
79-20-9	Methyl Acetate	5	U	
75-09-2	Methylene chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl tert-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
540-59-0	1,2-Dichloroethene (total)	5	U	
156-59-2	cis-1,2-Dichloroethene	5	U	
78-93-3	2-Butanone	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
110-82-7	Cyclohexane	5	U	
56-23-5	Carbon tetrachloride	5	U	
71-43-2	Benzene	5	U	
107-06-2	1,2-Dichloroethane	5	U	
79-01-6	Trichloroethene	5	U	
108-87-2	Methylcyclohexane	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-pentanone	5	U	
108-88-3	Toluene	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
127-18-4	Tetrachloroethene	5	U	
591-78-6	2-Hexanone	5	U	
124-48-1	Dibromochloromethane	5	U	

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505L06-005A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32988

Level: (low/med) LOW Date Received: 05/28/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

NW 7/30/15

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505L06-006A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32987

Level: (low/med) LOW Date Received: 05/28/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q	
75-71-8	Dichlorodifluoromethane	5	~~U~~	UJ
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl chloride	5	U	
74-83-9	Bromomethane	5	~~U~~	UJ
75-00-3	Chloroethane	5	U	
75-69-4	Trichlorofluoromethane	5	U	
75-35-4	1,1-Dichloroethene	5	U	
67-64-1	Acetone	5	U	
75-15-0	Carbon disulfide	5	U	
79-20-9	Methyl Acetate	5	U	
75-09-2	Methylene chloride	5	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
1634-04-4	Methyl tert-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5	U	
540-59-0	1,2-Dichloroethene (total)	5	U	
156-59-2	cis-1,2-Dichloroethene	5	U	
78-93-3	2-Butanone	5	U	
67-66-3	Chloroform	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
110-82-7	Cyclohexane	5	U	
56-23-5	Carbon tetrachloride	5	U	
71-43-2	Benzene	5	U	
107-06-2	1,2-Dichloroethane	5	U	
79-01-6	Trichloroethene	5	U	
108-87-2	Methylcyclohexane	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-27-4	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-pentanone	5	U	
108-88-3	Toluene	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
127-18-4	Tetrachloroethene	5	U	
591-78-6	2-Hexanone	5	U	
124-48-1	Dibromochloromethane	5	U	

MW 7/30/15

1B

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

STORAGE BLANK

Lab Name: PACE ANALYTICAL Contract: _____

Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM238

Matrix: (soil/water) WATER Lab Sample ID: 1505L06-006A

Sample wt/vol: 5 (g/mL) mL Lab File ID: 315\G32987

Level: (low/med) LOW Date Received: 05/28/15

% Moisture: not dec. Date Analyzed: 06/03/15

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

MW7/30/15