

Environment

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Annual Long Term Monitoring Report For 2016 Utility Manufacturing/Wonder King (Site No. 130043H) October 3, 2016



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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 June 2016. 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 4°C 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 June 27, 2016. All wells were sampled between June 23, 2016 and June 27, 2016. 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 MW12S and NC-12. The concentrations exceed the NYS Class GA criterion of 5 μ g/L in three of the nine wells with concentrations of 10 μ g/L (MW13S and duplicate), 15 μ g/L (MW1D), and 14 μ g/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 MW13S (6 μg/L in the sample and duplicate), MW13D (11 μg/L) and MW1D (74 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 (19 μg/L [18 μg/L in the duplicate]).
- 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 (9 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 2016 compared to data collected in 2015 is provided below.

For wells MW11S and MW11D, the current PCE concentration in the deep well is more than 5 μ g/L higher than in the shallow well. The PCE concentration in MW11D is greater than twice the NY Class GA criterion of 5 μ g/L (14 μ g/L). The PCE concentration in MW11D has not increased significantly in

2016 compared to the concentration in 2015. No other parameters have exceedances in these wells in 2014 and 2015.

For wells MW12S and MW12D, the 2015 and 2016 concentrations are below the NY Class GA criteria.

For wells MW13S and MW13D, the TCE concentration in the deep well is 5 μ g/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 are the same as the 2015 levels. The PCE concentration in the shallow well is more than 5 μ g/L higher than in the deep well and exceeds the NY Class GA criterion at 10 μ g/L. The cis-1,2-DCE concentration in the shallow well (19 μ g/L) has not significantly increased compared to the 2015 level. The cis-1,2-DCE concentration in the shallow well is more than 5 μ g/L higher than in the deep well and exceeds twice the NY Class GA criterion at 19 μ g/L. The cis-1,2-DCE concentration in the shallow well is more than 5 μ g/L higher than in the deep well and exceeds twice the NY Class GA criterion at 19 μ g/L. The cis-1,2-DCE concentration in the shallow well is more than 5 μ g/L higher than in the deep well and exceeds twice the NY Class GA criterion at 19 μ g/L. The cis-1,2-DCE concentration in the shallow well (19 μ g/L) has not significantly increased compared to the 2015 level. The shallow well (19 μ g/L) has not significantly increased compared to the 2015 level. The 3 μ g/L higher than in the shallow well (19 μ g/L) has not significantly increased compared to the 2015 level. The 1,1-DCA concentrations remain over the NY Class GA criteria in the shallow well, but have not increased or decreased in concentration compared to the 2015 levels.

For wells MW1S and MW1D, the concentrations are lower in the shallow well than in the deeper well by more than 5 μ g/L for PCE, TCE, and 1,1-DCE. Concentrations are greater than twice the NY Class GA criterion of 5 μ g/L for PCE, TCE, and cis-1,2-DCE in MW1D. The concentration of TCE increased between 2015 and 2016 in well MW1D by more than 5 μ g/L to 74 μ g/L. The concentrations of PCE and 1,1-DCE in 2016 have not significantly increased compared to the 2015 levels.

For NC-12, there were no VOC detections in 2015 or 2016.

The groundwater concentrations generally appear to be stabilizing over time. All concentrations are within 5 μ g/L of the 2015 levels with the exception of TCE in MW1D which increased to 74 μ g/L. There were no exceedances of criteria in MW-11S, MW12S, MW12D, MW1S or NC-12 in 2013, 2014, 2015 and 2016. 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.

 $PCE \rightarrow TCE \rightarrow DCE \rightarrow vinyl chloride \rightarrow ethene$

1,1,1-TCA \rightarrow 1,1-DCA \rightarrow chloroethane \rightarrow 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).

- <u>pH</u>: Water quality measurements indicate that the groundwater is slightly acidic (pH 5.23 to 6.67), 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.
- <u>ORP</u>: Water quality measurements collected in real time during the field sampling indicate that the groundwater conditions are generally oxidizing (ORP 173 to 374 mV) in all of the nine wells. Biotic reductive dechlorination does not occur under these oxidizing conditions.
- <u>Dissolved Oxygen:</u> 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 1.7 to 9.5 mg/L). The availability of dissolved oxygen as an electron acceptor limits reductive dechlorination.
- <u>Nitrate:</u> was detected in all nine wells sampled (0.9 mg/L to 6.4 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 2016.
- <u>Dissolved Iron</u>: 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 two of the nine monitoring wells.
- <u>Sulfate</u> was detected in all nine wells sampled (11.8 mg/L to 83.7 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 2016.
- <u>Methane</u> 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 June 2016.
- <u>Carbon dioxide</u>: An increase in carbon dioxide may provide an indication of microbial processes. Carbon dioxide was detected in all wells with concentrations ranging from 2,400 µg/L to 57,300 µg/L. The carbon dioxide concentration was significantly higher in wells MW11S, MW-12D, MW-13D, and NC-12 compared to previous years.
- <u>Daughter products</u> 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 2016 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 June 2016 were reported by Pace Analytical Services, Inc., Melville, New York as one SDG, AECOM260. A total of 14 analyses were validated, including three trip blanks, one storage blank, one field duplicate, and nine environmental samples.

AECOM260: There were no rejections of data. Overall, the data are acceptable for the intended purposes as qualified for the following deficiencies:

- Chloroethane was qualified as estimated in ten samples due to low laboratory control sample recovery.
- Several compounds (acetone, bromomethane, dichlorodifluoromethane, methyl acetate, and methylcyclohexane) were qualified as estimated 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 June 2016. 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 2016 levels with the exception of an increased TCE concentration in well MW1D. There were no exceedances of criteria in MW-11S, MW12S, MW12D, MW1S or NC-12 in 2013, 2014, 2015 and 2016.
- 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 June 2016 samples exceeding the NYS Class GA groundwater criteria.

6.0 References

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				Top of	Total
Well			Ground	Casing	Depth of
Number	Northing	Easting	Elevation	Elevation	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-03	215,329.38	1,107,025.57	124.13	123.71	62.5
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

Table 1 Well Construction Data Utility Manufacturing/Wonder King

Notes:

All elevations and depths are in feet. Vertical datum: NAVD88

Horizontal datum: NY State Plane NAD83

Method Depth Depth <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>Utility K</th><th>/lanufacturi</th><th>ng/wonde</th><th>erking</th><th></th><th></th><th></th><th></th><th></th><th></th></t<>							Utility K	/lanufacturi	ng/wonde	erking						
Number Casing 5/12/10 5/12/10 8/9/11 8/9/11 4/24/12 6/20/13 6/20/13 6/3/14 6/3/14 5/28/15 5/28/15 6/27/16 6/27/16 MW-1D 119.77 42.4 77.37 45.59 74.18 43.84 75.93 44.05 75.71 46.35 73.25 46.18 73.59 48.10 71.67 MW-1D 119.52 42.74 76.77 45.58 74.24 43.82 76.00 45.05 73.25 46.18 73.61 48.15 71.67 MW-1D 119.51 42.74 76.70 46.65 72.86 44.77 74.81 44.95 74.50 47.50 <td></td> <td>Top of</td> <td>Depth to</td> <td></td>		Top of	Depth to		Depth to		Depth to		Depth to		Depth to		Depth to		Depth to	
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 48.10 71.67 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 48.15 71.67 MW-1D 119.51 42.74 76.77 46.65 72.86 44.7 74.81 44.95 74.65 47.36 72.15 47.13 72.38 48.98 70.53 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 48.71 69.55 MW-12D 118.26 41.47 76.67 43.5 72.91 41.81 74.66 43.38 74.50 46.1 71.78 45.43 72.45 47.38 70.5 MW-12S 116.41 39.74 76.67	Well	Inner	Water	Elevation	Water	Elevation	Water	Elevation	Water	Elevation	Water	Elevation	Water	Elevation	Water	Elevation
MW-1S119.8241.8577.9745.5874.2443.8276.0044.0575.7746.3873.4446.2173.6148.1571.67MW-11D119.5142.7476.7746.6572.8644.774.8144.9574.5647.3672.1547.1372.3848.9870.53MW-11S119.6642.7676.9046.573.1644.6675.0045.0174.5647.3772.2947.272.4649.0870.55MW-12D118.2641.4776.7945.2573.0143.5274.7443.7674.5045.672.6645.8272.4448.7169.55MW-13D116.4139.7476.6743.572.9141.8174.642.174.3144.3572.0644.1172.346.0070.41MW-13D116.3239.6876.6443.472.9241.7374.5942.0574.2744.2772.0543.9772.5545.8970.51FSMW-07A122.7NMNMNMNMNMNMNMNMNMNM10.474.6550.1572.3445.9374.9345.9574.9345.9374.9345.9574.9345.9374.9345.9574.9345.9574.9345.9574.9345.9574.9345.9574.9345.9574.9345.9574.9345.9574.9345.9574.9374.9545.9574.93	Number	Casing	5/12/10	5/12/10	8/9/11	8/9/11	4/24/12	4/24/12	6/20/13	6/20/13	6/3/14	6/3/14	5/28/15	5/28/15	6/27/16	6/27/16
MW-1S119.8241.8577.9745.5874.2443.8276.0044.0575.7746.3873.4446.2173.6148.1571.67MW-11D119.5142.7476.7746.6572.8644.774.8144.9574.5647.3672.1547.1372.3848.9870.53MW-11S119.6642.7676.9046.573.1644.6675.0045.0174.5647.3772.2947.272.4649.0870.55MW-12D118.2641.4776.7945.2573.0143.5274.7443.7674.5045.672.6645.8272.4448.7169.55MW-13D116.4139.7476.6743.572.9141.8174.642.174.3144.3572.0644.1172.346.0070.41MW-13D116.3239.6876.6443.472.9241.7374.5942.0574.2744.2772.0543.9772.5545.8970.51FSMW-07A122.7NMNMNMNMNMNMNMNMNMNM10.474.6550.1572.3445.9374.9345.9574.9345.9374.9345.9574.9345.9374.9345.9574.9345.9574.9345.9574.9345.9574.9345.9574.9345.9574.9345.9574.9345.9574.9345.9574.9374.9545.9574.93																
MW-11D119.5142.7476.7746.6572.8644.774.8144.9574.5647.3672.1547.1372.3848.9870.53MW-11S119.6642.7676.9046.573.1644.6675.0045.0174.6547.3772.2947.272.4649.0870.58MW-12D118.2641.4776.7945.2573.0143.5274.7443.7674.5045.672.6645.8272.4448.7169.55MW-12S117.8841.0876.6743.572.9141.8174.6743.3874.5046.171.7845.4372.4547.3870.51MW-13D116.4139.7476.6743.572.9141.8174.6742.0574.2744.2772.0543.9772.3545.8970.41MW-13S116.3239.6876.6443.472.9241.7374.5942.0574.2744.2772.0543.9772.3545.8970.43FSMW-07A122.7NMNMNMNMNMNMNMNMNMNM14.2772.0543.9774.5050.1372.74FSMW-07B122.73NMNMNMNMNMNMNMNMNMNM14.2874.5650.1572.3445.9374.5450.1572.34MW-02122.49NMNMNMNMNMNMNMNMNMNM<	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	48.10	71.67
MW-11S119.6642.7676.9046.573.1644.6675.0045.0174.6547.3772.2947.272.4649.0870.58MW-12D118.2641.4776.7945.2573.0143.5274.7443.7674.5045.672.6645.8272.4448.7169.55MW-12S117.8841.0876.8044.8273.0643.1274.7643.3874.5046.171.7845.4372.4547.3870.51MW-13D116.4139.7476.6743.572.9141.8174.642.174.3144.3572.0644.1172.346.0070.41MW-13S116.3239.6876.6443.472.9241.7374.5942.0574.2744.2772.0543.9772.3545.8970.43FSMW-07A122.7NMNMNMNMNMNMNMNMNMNM14.2772.0543.9774.5050.4372.27FSMW-07B122.73NMNMNMNMNMNMNMNMNMNM146.2876.21NMNM49.0473.6951.0371.77MW-02122.49NMNMNMNMNMNMNMNMNMNM146.2876.21NMNMNM14.5550.1572.34MW-03123.71NMNMNMNMNMNMNMNMNM<	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	48.15	71.67
MW-12D118.2641.4776.7945.2573.0143.5274.7443.7674.5045.672.6645.8272.4448.7169.55MW-12S117.8841.0876.8044.8273.0643.1274.7643.3874.5046.171.7845.4372.4447.3870.5MW-13D116.4139.7476.6743.572.9141.8174.642.174.3144.3572.0544.1172.346.0070.41MW-13S116.2239.6876.6443.472.9241.7374.5942.0574.2744.2772.0543.9772.3545.8970.43FSMW-07A122.7NMNMNMNMNMNMNMNM46.2876.21NMNM48.6774.0350.4372.27FSMW-07B122.3NMNMNMNMNMNMNMNM17.774.5450.1572.34MW-02122.49NMNMNMNMNMNMNMNM16.276.21NMNM49.0374.5650.1572.34MW-03123.71NMNMNMNMNMNMNMNMNMNMNMNM17.772.54MW-03123.6NMNMNMNMNMNMNMNMNM16.275.8547.673.547.4473.6649.575.6MW-04	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	48.98	70.53
MW-12S117.8841.0876.8044.8273.0643.1274.7643.3874.5046.171.7845.4372.4547.3870.5MW-13D116.4139.7476.6743.572.9141.8174.642.174.3144.3572.0644.1172.346.0070.41MW-13S116.3239.6876.6443.472.9241.7374.5942.0574.2744.2772.0543.9772.3545.8970.43FSMW-07A122.7NMNMNMNMNMNMNMNM46.2876.21NMNM48.6774.0350.4372.27FSMW-07B122.49NMNMNMNMNMNMNMNM10.172.5445.9372.45MW-02122.49NMNMNMNMNMNMNM146.2876.21NMNM49.0473.6951.0372.45MW-03123.71NMNMNMNMNMNMNMNMNM172.54172.54MW-03123.71NMNMNMNMNMNMNMNM172.54172.54MW-03123.71NMNMNMNMNMNMNMNMNM172.54MW-03123.68NMNMNMNMNMNMNMNMNM172.75MW-03123.68NMNMNMNM<	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	49.08	70.58
MW-13D116.4139.7476.6743.572.9141.8174.642.174.3144.3572.0644.1172.346.0070.41MW-13S116.3239.6876.6443.472.9241.7374.5942.0574.2744.2772.0543.9772.3545.8970.43FSMW-07A122.7NMNMNMNMNMNMNMNM48.6774.0350.4372.27FSMW-07B122.73NMNMNMNMNMNMNMNM10.172.3450.4372.27FSMW-07B122.73NMNMNMNMNMNMNM10.172.3450.4372.27FSMW-07B122.49NMNMNMNMNMNMNM146.2876.21NMNM49.0473.6951.0371.74MW-02122.49NMNMNMNMNM46.2876.21NMNM49.0473.6950.1572.34MW-03123.71NMNMNMNMNMNMNMNMNMNM14.2374.5443.0472.77MW-08122.68NMNMNMNMNMNMNMNMNMNM14.5275.8547.673.547.4473.6649.571.6MW-09121.46NMNMNMNMNMNMNMNMNM16.99 <t< td=""><td>MW-12D</td><td>118.26</td><td>41.47</td><td>76.79</td><td>45.25</td><td>73.01</td><td>43.52</td><td>74.74</td><td>43.76</td><td>74.50</td><td>45.6</td><td>72.66</td><td>45.82</td><td>72.44</td><td>48.71</td><td>69.55</td></t<>	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	48.71	69.55
MW-13S116.3239.6876.6443.472.9241.7374.5942.0574.2744.2772.0543.9772.3545.8970.43FSMW-07A122.7NMNMNMNMNMNMNMNMNMNM72.27FSMW-07B122.73NMNMNMNMNMNMNMNMNM10074.0350.4372.27MW-02122.49NMNMNMNMNMNMNM146.2876.21NMNM49.0473.6951.0371.7MW-03123.71NMNMNMNMNM46.2876.21NMNM47.9374.5650.1572.34MW-08122.68NMNMNMNMNMNMNMNMNMNMNM12.77MW-09121.86NMNMNMNMNMNMNMNMNMNM12.77MW-09121.86NMNMNMNMNMNMNMNMNMNM12.77MW-09121.86NMNMNMNMNMNMNMNMNM12.77MW-09121.86NMNMNMNMNMNMNMNM12.77MW-09121.86NMNMNMNMNMNMNMNM13.5183.3538.5483.32NC-12121.1NMNM <t< td=""><td>MW-12S</td><td>117.88</td><td>41.08</td><td>76.80</td><td>44.82</td><td>73.06</td><td>43.12</td><td>74.76</td><td>43.38</td><td>74.50</td><td>46.1</td><td>71.78</td><td>45.43</td><td>72.45</td><td>47.38</td><td>70.5</td></t<>	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	47.38	70.5
FSMW-07A122.7NMNMNMNMNMNMNMNMNMNMNM72.27FSMW-07B122.73NMNMNMNMNMNMNMNMNMNMNM73.6951.0371.7MW-02122.49NMNMNMNMNMNMNMNM46.2876.21NMNM47.9374.5650.1572.34MW-03123.71NMNMNMNMNMNM46.2876.21NMNM48.0674.6250.1572.34MW-03123.71NMNMNMNMNMNMNM10012.5412.68NMNMNMNMNMNM12.7712.18NMNMNMNMNMNMNM12.77MW-09121.86NMNMNMNMNMNMNMNMNMNM145.2575.8547.673.547.4473.6649.571.6NC-12121.1NMNMNMNMNMNMNMNMNMNM14.9274.1346.9972.06NC-25119.05NMNMNMNMNMNMNMNMNMNM14.9274.1346.9972.06	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	46.00	70.41
FSMW-07B 122.73 NM A A NM	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	45.89	70.43
MW-02122.49NMNMNMNMNMNMNM46.2876.21NMNM47.9374.5650.1572.34MW-03123.71NMNMNMNMNMNMNMNMNMNMNM74.5650.1572.34MW-03122.68NMNMNMNMNMNMNMNMNMNMNM74.5650.1572.34MW-08122.68NMNMNMNMNMNMNMNMNM74.5649.9172.77MW-09121.86NMNMNMNMNMNMNMNMNM8.3338.5483.32NC-12121.1NMNMNMNMNMNM45.2575.8547.673.547.4473.6649.571.6NC-25119.05NMNMNMNMNMNMNMNMNMNM14.9274.1346.9972.06	FSMW-07A	122.7	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	48.67	74.03	50.43	72.27
MW-03 123.71 NM S1.17 72.54 MW-08 122.68 NM NM NM NM NM NM NM NM S1.17 72.54 MW-08 122.68 NM NM NM NM NM NM NM S4.06 74.62 49.91 72.77 MW-09 121.86 NM NM NM NM NM NM S3.51 83.35 38.54 83.32 NC-12 121.1 NM NM NM NM NM 45.25 75.85 47.6 73.5 47.44 73.66 49.5 71.6 NC-25 119.05 NM NM NM NM NM NM NM NM NM 14.99 74.13 46.99 72.06	FSMW-07B	122.73	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	49.04	73.69	51.03	71.7
MW-08 122.68 NM NM NM NM NM NM NM NM NM A9.91 72.77 MW-09 121.86 NM NM NM NM NM NM NM NM S38.51 83.35 38.54 83.32 NC-12 121.1 NM NM NM NM NM 45.25 75.85 47.6 73.5 47.44 73.66 49.91 72.77 NC-25 119.05 NM NM NM NM NM NM NM NM 38.51 83.35 38.54 83.32 NC-25 119.05 NM NM NM NM NM NM NM NM A4.92 74.13 46.99 72.06	MW-02	122.49	NM	NM	NM	NM	NM	NM	46.28	76.21	NM	NM	47.93	74.56	50.15	72.34
MW-09 121.86 NM NM NM NM NM NM NM NM S38.51 S38.51 S38.54 S33.22 NC-12 121.1 NM NM NM NM NM NM 45.25 75.85 47.6 73.5 47.44 73.66 49.5 71.6 NC-25 119.05 NM NM NM NM NM NM NM NM NM 16 72.06	MW-03	123.71	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	51.17	72.54
NC-12 121.1 NM NM NM NM NM NM 45.25 75.85 47.6 73.5 47.44 73.66 49.5 71.6 NC-25 119.05 NM 14.92 74.13 46.99 72.06	MW-08	122.68	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	48.06	74.62	49.91	72.77
NC-12 121.1 NM NM NM NM NM NM 45.25 75.85 47.6 73.5 47.44 73.66 49.5 71.6 NC-25 119.05 NM 14.92 74.13 46.99 72.06		121.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		83.35	38.54	83.32
NC-25 119.05 NM		121.1	NM	NM	NM	NM	NM	NM	45.25	75.85	47.6	73.5		73.66	49.5	71.6

Table 2 Groundwater Elevations

Notes:

All elevations and depths are in feet.

Vertical datum: North American Vertical Datum of 1988

NM - No measurement

MW11D was inaccessible on June 27, 2016. The value shown for June 2016 is from June 24, 2016.

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	NYS	MW11S	MW11S	MW11S	MW11S	MW11S	(dup)	MW11S	(dup)	MW11S	MW11D	MW11D
Units: µg/L	Class GA	5/12/2010	10/3/2011	4/24/2012	6/20/2013	6/3/2014	6/3/2014	5/27/2015	5/27/2015	6/24/2016	5/12/2010	10/3/2011
1,1,1-Trichloroethane	5	1 U	0.78 J	1 UJ	5 U	5 U	5 U	5 U	5 U	5 U	1.8	2.1
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	5 U	5 UJ	5 UJ	5 U	5 U	5 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	2.5	3
1,1-Dichloroethene	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	4	<mark>5.2</mark>
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	5 UJ	5 UJ	5 UJ	5 U	5 U	5 U	1 U	1 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 UJ	1 U	5 UJ	R	R	5 U	5 U	5 U	1 U	1 UJ
1,2-Dibromoethane (EDB)	5	1 U	1 U	1 U	5 U	5 UJ	5 UJ	5 U	5 U	5 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
1,2-Dichloroethene, Total	5	2 U	1 U	NA	3	1.5	1.7	2 J	2	2	1.2 J	1.9
1,2-Dichloropropane	1	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	5 UJ	5 U	5 U	5 U	5 U	5 U	1 U	1 U
2-Butanone (MEK)	5	5 U	R	5 U	5 UJ	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	R
2-Hexanone	5	5 U	5 U	5 U	5 UJ	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	5 U
4-Methyl-2-pentanone (MIBK)	5	5 U	5 U	5 U	5 UJ	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	5 U
Acetone	5	5 U	R	R	5 UJ	5 U	5 U	5 U	5 U	5 UJ	4.8 J	R
Benzene	1	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Bromodichloromethane	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Bromoform	5	1 U	1 UJ	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 UJ	1 UJ
Bromomethane	5	1 UJ	1 U	1 U	5 UJ	5 U	1 U	1 U				
Carbon disulfide	60	1 U	1 UJ	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 UJ
Carbon Tetrachloride	5	1 U	1 U	1 UJ	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Chlorodibromomethane	NA	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	5 UJ	5 U	5 U	5 U	5 U	5 UJ	1 U	1 U
Chloroform	7	1 U	1 UJ	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 UJ
Chloromethane	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	3 J	1 J	2 J	2 J	2 J	2 J	1.2	1.9
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Cyclohexane	NA	1 U	1 U	1 UJ	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 UJ	5 U	5 U	5 U	5 UJ	5 UJ	5 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Isopropylbenzene	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Methyl Acetate	NA	1 U	1 U	1 UJ	5 U	5 U	5 U	5 U	5 U	5 U	1 UJ	1 U
Methyl tert-Butyl Ether	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U

VOCs in Groundwater

Utility Manufacturing/Wonder King

					,			0				
	NYS	MW11S	MW11S	MW11S	MW11S	MW11S	(dup)	MW11S	(dup)	MW11S	MW11D	MW11D
Units: µg/L	Class GA	5/12/2010	10/3/2011	4/24/2012	6/20/2013	6/3/2014	6/3/2014	5/27/2015	5/27/2015	6/24/2016	5/12/2010	10/3/2011
Methylcyclohexane	NA	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 UJ	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Tetrachloroethene (PCE)	5	<mark>8.7</mark>	<mark>5.5</mark> J	4.7	4 J	2 J	2 J	2 J	2 J	4 J	<mark>8.1</mark>	17 J
Toluene	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Trichloroethene (TCE)	5	1 U	0.71 J	1 UJ	5 U	5 U	5 U	5 U	5 U	5 U	3 U	5.3
Trichlorofluoromethane	5	1 U	1 U	1 U	5 UJ	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Xylenes, total	5	2 U	2 U	2 U	5 U	5 U	5 U	5 U	5 U	5 U	2 U	2 U

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

Utility Manufacturing/Wonder King

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	NYS	MW11D	(dup)	MW11D	MW11D	MW11D	MW11D	MW12S	(dup)	MW12S	MW12S	MW12S	MW12S
Units: μg/L	Class GA	4/24/2012	4/24/2012	6/20/2013	6/3/2014	5/27/2015	6/24/2016	5/11/2010	5/11/2010	8/9/2011	4/24/2012	6/20/2013	6/3/2014
1,1,1-Trichloroethane	5	0.82 J	1	1 J	5 U	5 U	5 U	1 U	1 U	5 U	1 UJ	5 U	5 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	5 U	5 UJ	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 UJ
1,1,2-Trichloroethane	1	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	NA	NA	NA	NA	1 U	1 U	5 U	1 U	NA	NA
1,1-Dichloroethane	5	1.6	2	2 J	2 J	2 J	2 J	1 U	1 U	5 U	1 U	5 U	5 U
1,1-Dichloroethene	5	2	2.5	3 J	2 J	4 J	3 J	1 U	1 U	5 U	1 U	5 U	5 U
1,2,4-Trichlorobenzene	5	1 U	1 UJ	5 UJ	5 UJ	5 U	5 U	1 U	1 U	5 U	1 U	5 UJ	5 UJ
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	5 UJ	R	5 U	5 U	1 UJ	1 U	5 UJ	1 U	5 UJ	R
1,2-Dibromoethane (EDB)	5	1 U	1 U	5 U	5 UJ	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 UJ
1,2-Dichlorobenzene	3	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
1,2-Dichloroethane	0.6	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
1,2-Dichloroethene, Total	5	NA	NA	1	1.4	2	1	15	15	2.2 J	NA	5 U	5 U
1,2-Dichloropropane	1	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
1,3-Dichlorobenzene	3	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
1,4-Dichlorobenzene	3	1 U	1 U	5 UJ	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 UJ	5 U
2-Butanone (MEK)	5	5 U	R	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 UJ	5 U	5 UJ	5 UJ
2-Hexanone	5	5 U	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 UJ
4-Methyl-2-pentanone (MIBK)	5	5 U	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 UJ
Acetone	5	R	R	5 UJ	5 U	5 U	5 UJ	5 U	5 U	R	R	5 UJ	5 U
Benzene	1	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
Bromodichloromethane	5	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
Bromoform	5	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
Bromomethane	5	1 U	1 U	5 UJ	5 UJ	5 UJ	5 UJ	1 U	1 UJ	5 U	1 U	5 UJ	5 UJ
Carbon disulfide	60	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
Carbon Tetrachloride	5	1 UJ	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 UJ	5 U	5 U
Chlorobenzene	5	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
Chlorodibromomethane	NA	1 U	1 U	5 U	5 U	5 U	5 U	1 UJ	1 U	5 U	1 U	5 U	5 U
Chloroethane	5	1 U	1 U	5 UJ	5 U	5 U	5 UJ	1 U	1 U	5 U	1 U	5 UJ	5 U
Chloroform	7	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
Chloromethane	5	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
cis-1,2-Dichloroethene	5	1.1	1.2	1 J	1 J	2 J	1 J	15	<mark>15</mark>	2.2 J	1.7	5 U	5 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
Cyclohexane	NA	1 UJ	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 UJ	5 U	5 U
Dichlorodifluoromethane	5	1 UJ	1 U	5 U	5 U	5 UJ	5 UJ	1 UJ	1 U	5 U	1 UJ	5 U	5 U
Ethylbenzene	5	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
Isopropylbenzene	5	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
Methyl Acetate	NA	1 UJ	1 U	5 U	5 U	5 U	5 UJ	1 U	1 U	5 UJ	1 UJ	5 U	5 U
Methyl tert-Butyl Ether	5	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U

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	NYS	MW11D	(dup)	MW11D	MW11D	MW11D	MW11D	MW12S	(dup)	MW12S	MW12S	MW12S	MW12S
Units: µg/L	Class GA	4/24/2012	4/24/2012	6/20/2013	6/3/2014	5/27/2015	6/24/2016	5/11/2010	5/11/2010	8/9/2011	4/24/2012	6/20/2013	6/3/2014
Methylcyclohexane	NA	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
Methylene Chloride	5	1 UJ	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 UJ	5 U	5 U
Styrene	5	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
Tetrachloroethene (PCE)	5	9	8	<mark>14</mark>	8	13	14	<mark>10</mark>	<mark>10</mark>	<mark>18</mark>	21	5	1 J
Toluene	5	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
trans-1,2-Dichloroethene	5	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	5 U	5 U	5 U	5 U	1 UJ	1 U	5 U	1 U	5 U	5 U
Trichloroethene (TCE)	5	2.4 J	2.6	4 J	3 J	4 J	5	2.5	2.4	1.9 J	3 J	2 J	5 U
Trichlorofluoromethane	5	1 U	1 U	5 UJ	5 U	5 U	5 U	1 UJ	1 U	5 U	1 U	5 UJ	5 U
Vinyl chloride	2	1 U	1 U	5 U	5 U	5 U	5 U	1 U	1 U	5 U	1 U	5 U	5 U
Xylenes, total	5	2 U	2 U	5 U	5 U	5 U	5 U	2 U	2 U	5 U	2 U	5 U	5 U

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Units.gu/L Class GA 5/27/2015 6/27/2015 6/27/2015 6/27/2015 6/27/2015 6/27/2015 6/27/2016 5/11/2010 8/9/2011 8/9/2011 6/2/202013 6/27/2015 5/27/2015 <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th></th<>									-					
1,1:Trichoroethane 5 5 U 1 U 5 U 1 U 5 U 5 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U		NYS	MW12S	MW12S	MW12D	MW12D	MW12D	MW12D	MW12D	MW12D	MW12D	MW13S	MW13S	(dup)
1,12-2-Taranchoroethane 5 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 1 U 5 U 6 U 7 U 6 U 7 U 6 U 7 U 6 U 7 U 6 U 7 U	Units: μg/L											5/11/2010		
1,1,2-Trichoropenhane 1 5 U 6 U 3 U 1 U 5 U<	,,,	-					-	-	-					
1,1,2-Thichiconstributions 5 NA NA 2.2 5 U 1 U NA NA NA NA NA I U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 5 U 1 U 5 U 5 U 1 U 5 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U <td></td> <td>-</td> <td></td>		-												
1, Dichloroethane 5 5 U 5 U 5 U 5 U 5 U 5 U 4 U 4 U 3 A G J 1,1:Dichloroethane 5 5 U 5 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 5 U 1 U 5 U </td <td>1,1,2-Trichloroethane</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1,1,2-Trichloroethane	-					-		-					
1.1-Dickorosthene 5 5 U 5 U 1 U 1 S J 1 U 4 J 1 J 2 J 2 J 1 U 0.82 J 0.74 J 1.2-A-Trichlorobenzene 5 5 U 5 U 5 U 1 U 5 U 5 U 5 U 1 U 5 U		-												
1.2.4-Trichlorobenzene 5 6 JU 5 U 1 U 5 U 1 U 5 U 5 U 5 U 1 U 5 U	1,1-Dichloroethane		5 U				1 U	5 U		5 U	5 U	1 U		3.6 J
12-Dichorono-3-chloropropane 0.04 5 U 5 U 1 U 5 UU 5 U	1,1-Dichloroethene	-			17	1.5 J		-	-	-	-	1 U	0.82 J	0.74 J
12-Dibromethane (EDB) 5 5 U 5 U 5 U 1 U 5 U 1 U 5 U<	1,2,4-Trichlorobenzene	5	5 U	5 U	1 U	5 U	1 U	5 UJ	5 UJ	5 U	5 U	1 U	5 U	5 U
12-Dichlorobenzene 3 5 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 5 U 1 U 5 U <td>1,2-Dibromo-3-chloropropane</td> <td>0.04</td> <td>5 U</td> <td>5 U</td> <td>1 U</td> <td>5 UJ</td> <td>1 U</td> <td>5 UJ</td> <td>R</td> <td>5 U</td> <td>5 U</td> <td>1 UJ</td> <td>5 UJ</td> <td>5 UJ</td>	1,2-Dibromo-3-chloropropane	0.04	5 U	5 U	1 U	5 UJ	1 U	5 UJ	R	5 U	5 U	1 UJ	5 UJ	5 UJ
1,2-Dichlorogethane 0,6 5 U 5 U 1 U 5 U 1 U 5 U<	1,2-Dibromoethane (EDB)	5	5 U	5 U	1 U	5 U	1 U	5 U	5 UJ	5 U	5 U	1 U	5 U	5 U
1.2-Dichlorocethene, Total 5 5 V NA 5 V S V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 1 V 5 V 5 V 1 V 5 V 5 V 1 V 5 V 5 V 1 V 5 V	1,2-Dichlorobenzene	3	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
1,2-Dichloropropane 1 5 U 5 U 1 U 5 U 1 U 5 U 5 U 5 U 1 U 5 U <td>1,2-Dichloroethane</td> <td>0.6</td> <td>5 U</td> <td>5 U</td> <td>1 U</td> <td>5 U</td> <td>1 U</td> <td>5 U</td> <td>5 U</td> <td>5 U</td> <td>5 U</td> <td>1 U</td> <td>5 U</td> <td>5 U</td>	1,2-Dichloroethane	0.6	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
1,3-Dichlorobenzene 3 5 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U <td>1,2-Dichloroethene, Total</td> <td>5</td> <td>5 U</td> <td>5 U</td> <td>1.8 J</td> <td>5 U</td> <td>NA</td> <td>5 U</td> <td>5 U</td> <td>5 U</td> <td>5 U</td> <td>0.74 J</td> <td>6.1</td> <td>5.3</td>	1,2-Dichloroethene, Total	5	5 U	5 U	1.8 J	5 U	NA	5 U	5 U	5 U	5 U	0.74 J	6.1	5.3
1.4-Dichlorobenzene 3 5 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U <td>1,2-Dichloropropane</td> <td>1</td> <td>5 U</td> <td>5 U</td> <td>1 U</td> <td>5 U</td> <td>1 U</td> <td>5 U</td> <td>5 U</td> <td>5 U</td> <td>5 U</td> <td>1 U</td> <td>5 U</td> <td>5 U</td>	1,2-Dichloropropane	1	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
2-Butanone (MEK) 5 5 U	1,3-Dichlorobenzene	3	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
2-Hexanone 5 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0	1,4-Dichlorobenzene	3	5 U	5 U	1 U	5 U	1 U	5 UJ	5 U	5 U	5 U	1 U	5 U	5 U
4-Methyl-2-pentanone (MIBK) 5 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 8 U 8 U 8 U 5 U 5 U 5 U 8 U 8 U 8 U 5 U 5 U 5 U 8 U 8 U 8 U 5 U 5 U 5 U 8 U 8 U 8 U 5 U 5 U 5 U 5 U 8 U 8 U 8 U 8 U 5 U <td>2-Butanone (MEK)</td> <td>5</td> <td>5 U</td> <td>5 U</td> <td>5 U</td> <td>5 UJ</td> <td>5 U</td> <td>5 UJ</td> <td>5 UJ</td> <td>5 U</td> <td>5 U</td> <td>5 U</td> <td>5 UJ</td> <td>5 UJ</td>	2-Butanone (MEK)	5	5 U	5 U	5 U	5 UJ	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	5 UJ
Acetone 5 5 0 5 0 R R 5 0 5 0 7 R R 5 0 5 0 7 0 5 0 7 0 5 0 1 0 5 0 </td <td>2-Hexanone</td> <td>5</td> <td>5 U</td> <td>5 U</td> <td>5 U</td> <td>5 U</td> <td>5 U</td> <td>5 UJ</td> <td>5 UJ</td> <td>5 U</td> <td>5 U</td> <td>5 U</td> <td>5 U</td> <td>5 U</td>	2-Hexanone	5	5 U	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U
Benzene 1 5 U 5 U 1 U 5 U 1 U 5 U 5 U 5 U 5 U 5 U Bromodichloromethane 5 5 U 5 U 5 U 1 U 5 U 1 U 5 U	4-Methyl-2-pentanone (MIBK)	5	5 U	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane 5 5 U 5 U 1 U 5 U 1 U 5 U	Acetone	5	5 U	5 UJ	5 U	R	R	5 UJ	5 U	5 U	5 UJ	5 U	R	R
Bromoform 5 5 0 5 1 0 5 1 0 5 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0	Benzene	1	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
Bromomethane 5 5 UJ 5 UJ 1 UJ 5 U 1 U 5 UJ 5 UJ 5 UJ 1 U 5 U 5 UJ 5 UJ 1 U 5 UJ 5 UJ <t< td=""><td>Bromodichloromethane</td><td>5</td><td>5 U</td><td>5 U</td><td>1 U</td><td>5 U</td><td>1 U</td><td>5 U</td><td>5 U</td><td>5 U</td><td>5 U</td><td>1 U</td><td>5 U</td><td>5 U</td></t<>	Bromodichloromethane	5	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
Carbon disulfide 60 5 U 5 U 1 U 5 U 1 U 5 U 5 U 5 U 1 U 5 U	Bromoform	5	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
Carbon Tetrachloride 5 5 U 5 U 1 U 5 U 1 UJ 5 U 5 U 5 U 1 U 5 U Chlorobenzene 5 5 U 5 U 5 U 1 U 5 U 1 U 5 U 5 U 5 U 1 U 5 U	Bromomethane	5	5 UJ	5 UJ	1 UJ	5 U	1 U	5 UJ	5 UJ	5 UJ	5 UJ	1 U	5 U	5 U
Chlorobenzene 5 5 U 5 U 1 U 5 U 1 U 5 U 5 U 5 U 1 U 5 U	Carbon disulfide	60	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
Chlorodibromomethane NA 5 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U<	Carbon Tetrachloride	5	5 U	5 U	1 U	5 U	1 UJ	5 U	5 U	5 U	5 U	1 U	5 U	5 U
Chloroethane 5 5 U 5 UJ 1 U 5 U 1 U 5 UJ 5 UJ 5 UJ 1 U 5 U	Chlorobenzene	5	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
Chloroform 7 5 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U	Chlorodibromomethane	NA	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 UJ	5 U	5 U
Chloromethane 5 5 U 5 U 1 U 5 U 1 U 5 U <th< td=""><td>Chloroethane</td><td>5</td><td>5 U</td><td>5 UJ</td><td>1 U</td><td>5 U</td><td>1 U</td><td>5 UJ</td><td>5 U</td><td>5 U</td><td>5 UJ</td><td>1 U</td><td>5 U</td><td>5 U</td></th<>	Chloroethane	5	5 U	5 UJ	1 U	5 U	1 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U
cis-1,2-Dichloroethene 5 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 5 0 5 0 1 0 5 0 5 0 5 0 1 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 1 0 <td>Chloroform</td> <td>7</td> <td>5 U</td> <td>5 U</td> <td>1 U</td> <td>5 U</td> <td>1 U</td> <td>5 U</td> <td>5 U</td> <td>5 U</td> <td>5 U</td> <td>1 U</td> <td>5 U</td> <td>5 U</td>	Chloroform	7	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
cis-1,3-Dichloropropene 0.4 5 U 5 U 1 U 5 U 1 U 5 U 5 U 5 U 1 U 5 U 5 U Cyclohexane NA 5 U 5 U 1 U 5 U 1 U 5 U	Chloromethane	5	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
Cyclohexane NA 5 U 5 U 1 U 5 U 1 UJ 5 U 5 U 5 U 1 U 5 U <th< td=""><td>cis-1,2-Dichloroethene</td><td>5</td><td>5 U</td><td>5 U</td><td>1.8</td><td>5 U</td><td>1 U</td><td>5 U</td><td>5 U</td><td>5 U</td><td>5 U</td><td>1 U</td><td>6.1</td><td>5.3</td></th<>	cis-1,2-Dichloroethene	5	5 U	5 U	1.8	5 U	1 U	5 U	5 U	5 U	5 U	1 U	6.1	5.3
Dichlorodifluoromethane 5 5 UJ 5 UJ 1 U 5 U 1 UJ 5 U 5 UJ 5 UJ 1 UJ 5 U<	cis-1,3-Dichloropropene	0.4	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
Dichlorodifluoromethane 5 5 UJ 5 UJ 1 U 5 U 1 UJ 5 U 5 UJ 5 UJ 1 UJ 5 U<	Cyclohexane	NA	5 U	5 U	1 U	5 U	1 UJ		5 U	5 U	5 U	1 U	5 U	5 U
Ethylbenzene 5 5 U 5 U 1 U 5 U 1 U 5 U	Dichlorodifluoromethane	5			1 U		1 UJ	5 U		5 UJ	5 UJ	1 UJ	5 U	5 U
Isopropylbenzene 5 5 U 5 U 1 U 5 U 1 U 5 U	Ethylbenzene				1 U	5 U						1 U	5 U	5 U
Methyl Ácetate NA 5U 5UJ 1U 5UJ 1UJ 5U 5U 5U 5UJ 1U 5UJ 5UJ	Isopropylbenzene	5	5 U	5 U	1 U	5 U	1 U				5 U	1 U	5 U	
	Methyl Acetate	NA	5 U		1 U	5 UJ	1 UJ		5 U	5 U		1 U	5 UJ	5 UJ
	Methyl tert-Butyl Ether		5 U		1 U		1 U			5 U		1 U	5 U	5 U

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	NYS	MW12S	MW12S	MW12D	MW12D	MW12D	MW12D	MW12D	MW12D	MW12D	MW13S	MW13S	(dup)
Units: μg/L	Class GA	5/27/2015	6/27/2016	5/11/2010	8/9/2011	4/24/2012	6/20/2013	6/3/2014	5/27/2015	6/27/2016	5/11/2010	8/9/2011	8/9/2011
Methylcyclohexane	NA	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
Methylene Chloride	5	5 U	5 U	1 U	5 U	1 UJ	5 U	5 U	5 U	5 U	1 U	5 U	5 U
Styrene	5	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
Tetrachloroethene (PCE)	5	5 U	5 U	7.1	1.8 J	2.6	3 J	2 J	2 J	2 J	1.2	3.5 J	3.3 J
Toluene	5	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
trans-1,2-Dichloroethene	5	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
trans-1,3-Dichloropropene	0.4	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 UJ	5 U	5 U
Trichloroethene (TCE)	5	5 U	5 U	<mark>25</mark>	1.4 J	1.6 J	3 J	5 U	2 J	2 J	1.7	<mark>16</mark>	<mark>14</mark>
Trichlorofluoromethane	5	5 U	5 U	1 U	5 U	1 U	5 UJ	5 U	5 U	5 U	1 UJ	5 U	5 U
Vinyl chloride	2	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
Xylenes, total	5	5 U	5 U	2 U	5 U	2 U	5 U	5 U	5 U	5 U	2 U	5 U	5 U

Utility Manufacturing/Wonder King

	NYS	MW13S	MW13S	MW13S	MW13S	MW13S	(dup)	MW13D	MW13D	MW13D	MW13D	MW13D	MW13D
Units: µg/L	Class GA	4/24/2012	6/20/2013	6/4/2014	5/28/2015	6/24/2016	6/24/2016	5/11/2010	8/9/2011	4/24/2012	6/20/2013	6/4/2014	5/28/2015
1.1.1-Trichloroethane	5	2.5 J	6	8 J	4 J	5	4 J	4.2	4.7 J	3.1 J	2 J	2 J	5 U
1,1,2,2-Tetrachloroethane	5	1 U	5 U	5 UJ	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 UJ	5 U
1,1,2-Trichloroethane	1	1 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U
1,1,2-Trichlorotrifluoroethane	5	1 U	NA	NA	NA	NA	NA	1.2	5 U	1 U	NA	NA	NA
1,1-Dichloroethane	5	5.3	15	18 J	10	9	9	1.2	0.72 J	0.63 J	5 U	5 U	5 U
1,1-Dichloroethene	5	1 U	2 J	2 J	1 J	1 J	1 J	7	5.6	3.8	5	3 J	1 J
1,2,4-Trichlorobenzene	5	1 U	5 UJ	5 UJ	5 U	5 U	5 U	1 U	5 U	1 U	5 UJ	5 UJ	5 U
1,2-Dibromo-3-chloropropane	0.04	1 U	5 UJ	R	5 U	5 U	5 U	1 UJ	5 UJ	1 U	5 UJ	R	5 U
1,2-Dibromoethane (EDB)	5	1 U	5 U	5 UJ	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 UJ	5 U
1,2-Dichlorobenzene	3	1 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U
1,2-Dichloroethane	0.6	1 U	5 U	5 U	5 U	5 U	5 U	0.58 J	5 U	1 U	5 U	5 U	5 U
1,2-Dichloroethene, Total	5	NA	24	<mark>31</mark> J	18	20	19	17	8.5	NA	8	3.6	2
1,2-Dichloropropane	1	1 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U
1,3-Dichlorobenzene	3	1 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U
1,4-Dichlorobenzene	3	1 U	5 UJ	5 U	5 U	5 U	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 U	5 U	5 U	5 UJ	5 U	5 UJ	5 UJ	5 U
2-Hexanone	5	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 U
4-Methyl-2-pentanone (MIBK)	5	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 U
Acetone	5	R	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	R	R	5 UJ	5 U	5 U
Benzene	1	1 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U
Bromodichloromethane	5	1 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U
Bromoform	5	1 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U
Bromomethane	5	1 U	5 UJ	2 J	5 UJ	5 U	5 U	1 U	5 U	1 U	5 UJ	5 UJ	5 UJ
Carbon disulfide	60	1 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U
Carbon Tetrachloride	5	1 UJ	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 UJ	5 U	5 U	5 U
Chlorobenzene	5	1 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U
Chlorodibromomethane	NA	1 U	5 U	5 U	5 U	5 U	5 U	1 UJ	5 U	1 U	5 U	5 U	5 U
Chloroethane	5	1 U	5 UJ	5 U	5 U	5 UJ	5 UJ	1 U	5 U	1 U	5 UJ	5 U	5 U
Chloroform	7	1 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U
Chloromethane	5	1 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	7.9	<mark>24</mark>	<mark>30</mark> J	17	19	18	17	8.5	6.1	<mark>8</mark>	4 J	2 J
cis-1,3-Dichloropropene	0.4	1 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U
Cyclohexane	NA	1 UJ	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 UJ	5 U	5 U	5 U
Dichlorodifluoromethane	5	1 UJ	5 U	5 U	5 UJ	5 U	5 U	1 UJ	5 U	1 UJ	5 U	5 U	5 UJ
Ethylbenzene	5	1 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U
Isopropylbenzene	5	1 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U
Methyl Acetate	NA	1 UJ	5 U	5 U	5 U	5 U	5 U	1 U	5 UJ	1 UJ	5 U	5 U	5 U
Methyl tert-Butyl Ether	5	1 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	5 U	5 U	5 U

Utility Manufacturing/Wonder	r King
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	NYS	MW13S	MW13S	MW13S	MW13S	MW13S	(dup)	MW1	3D	MW1	3D	MW13D	MW13D	MW13D	MW13D
Units: µg/L	Class GA	4/24/2012	6/20/2013	6/4/2014	5/28/2015	6/24/2016	6/24/2016	5/11/2	010	8/9/20	011	4/24/2012	6/20/2013	6/4/2014	5/28/2015
Methylcyclohexane	NA	1 U	5 U	5 U	5 U	5 U	5 U	1	U	5	U	1 U	5 U	5 U	5 U
Methylene Chloride	5	1 UJ	5 U	5 U	5 U	5 U	5 U	1	С	5	U	1 UJ	5 U	5 U	5 U
Styrene	5	1 U	5 U	5 U	5 U	5 U	5 U	1	С	5	U	1 U	5 U	5 U	5 U
Tetrachloroethene (PCE)	5	5.5	<mark>14</mark>	<mark>13</mark> J	6	10	10	9.4		5.5		5.2	7	3 J	2 J
Toluene	5	1 U	5 U	5 U	5 U	5 U	5 U	1	U	5	U	1 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	5	1 U	5 U	5 U	5 U	5 U	5 U	1	U	5	U	1 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	0.4	1 U	5 U	5 U	5 U	5 U	5 U	1	UJ	5	U	1 U	5 U	5 U	5 U
Trichloroethene (TCE)	5	<mark>16</mark> J	22	12	5	6	6	200		88		<mark>60</mark> J	<mark>65</mark>	<mark>30</mark>	11
Trichlorofluoromethane	5	1 U	5 UJ	5 U	5 U	5 U	5 U	1	IJ	5	U	1 U	5 UJ	5 U	5 U
Vinyl chloride	2	1 U	5 U	5 U	5 U	5 U	5 U	1	U	5	U	1 U	5 U	5 U	5 U
Xylenes, total	5	2 U	5 U	5 U	5 U	5 U	5 U	2	U	5	U	2 U	5 U	5 U	5 U

Utility Manufacturing/Wonder King

Units: yg/L Class GA 6/2/2016 4/5/2005 5/1/2/2010 8/0/2/01 4/2/2/01/21 6/2/2/014 5/2/2/016 6/2/2/2016 4/5/2006 5/1/2/2010 8/10/2/201 1,1,1:Trichioroethane 5 5 0 0.5 1 1 5 0 1 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 1 0 5 0 0	r					•	acturing/v		-					
1.1-Trichloroethane 5 5 U 3.6 1 U 5 U 1 UJ 5 U 5 U 5 U 1 U 5 U 5 U 5 U 1 U 5 U		NYS	MW13D	MW1S	MW1S	MW1S	MW1S	MW1S	MW1S	MW1S	MW1S	MW1D	MW1D	MW1D
1.1.2.2-Tetrachloroethane 5 5 U 0.5 U 1 U 5 U 5 U 5 U 5 U 1 U 5 U 1.1.2-Trichloroethane 1 5 U 0.5 U 1 U 5 U	10													
1,1,2-Trichloroethane 1 5 U 1 U 5 U 1 V NA 0.5 U 1 U SU	, ,	-												
1,12-Zirchloroterfluoroethane 5 NA 0.5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 5 U 5 U 2 30 4 43 2.2 1,1-Dichloroethene 5 1 1.4 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 <u< td=""> S U 1<u< td=""> S</u<></u<></u<></u<></u<></u<>	, , , ,	-												
1,1-Dichloroethane 5 5 U 0.9 1 U 5 U 1 U 5 U 5 U 5 U 5 U 2 U 4 U 3 U 5 U 5 U 5 U 2 U 3 U 4 U 5 U 5 U 5 U 5 U 2 U 3 U 4 U 5 U 5 U 5 U 2 U 3 U 4 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 0.5 U 1 U 5 U 1 U 5 U 0.5 U 1 U 5 U 1 U 5 U 0.5 U 1 U 5 U 1 U 5 U 0.5 U 1 U	, ,	-					-							
1.1-Dichloroethene 5 1 J 1.4 1 U 5 U 1 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 1 U 5 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5		_												
1,2-brichlorobenzene 5 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1,2-bibromo-3-chloropropane 0.04 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1,2-bibromo-3-chlorophrane(EDB) 5 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1,2-bichlorobetnae 0.6 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1,2-bichloropethene 1 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1,2-bichlorobenzene 3 5 U 0.5 U 1 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U <th< td=""><td>,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td>-</td></th<>	,											-	-	-
1.2-Dibromo-3-chloropropane 0.04 5 U 0.5 U 1 U 5 U 1 U 5 U 7 U 5 U 5 U 0 U 1 U 5 U 1 U 5 U 5 U 5 U 0 U 1 U 5 U 5 U 5 U 5 U 0 U 1 U 5 U 5 U 5 U 5 U 0 U 0 U 1 U 5 U 5 U 5 U 0 U 0 U 1 U 5 U 5 U 5 U 0 U 0 U 0 U 1 U 5 U 1 U 5 U 5 U 0 U 0 U 0 U 0 U 1 U 5 U 1 U	1,1-Dichloroethene		-										<mark>30</mark>	4.3 J
1.2-Dibromoethane (EDB) 5 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 0.5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 5 U 0.5 U 1 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 0.5 U 1 U 5 U 5 U 0.5 U 1 U 5 U 0.5 U 1 U<	1,2,4-Trichlorobenzene	-			1 U								1 U	
1,2-Dichlorobenzene 3 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1,2-Dichloroethane 0.6 5 U 0.5 U 1 U 5 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 0.5 U 1 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U <td>1,2-Dibromo-3-chloropropane</td> <td>0.04</td> <td>5 U</td> <td>0.5 U</td> <td>1 U</td> <td>5 UJ</td> <td>1 U</td> <td>5 UJ</td> <td>R</td> <td>5 U</td> <td>5 U</td> <td>0.5 U</td> <td>1 U</td> <td>5 UJ</td>	1,2-Dibromo-3-chloropropane	0.04	5 U	0.5 U	1 U	5 UJ	1 U	5 UJ	R	5 U	5 U	0.5 U	1 U	5 UJ
1,2-Dichloroethane 0.6 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 1,2-Dichloroethene, Total 5 1 NA 18 20 NA 4 2.8 3 3 NA 4.4 5.7 1,2-Dichloropropane 1 5 U 0.5 U 1 U 5 U 1 U 5 U 1 U 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U <	1,2-Dibromoethane (EDB)	5		0.5 U	1 U	5 U	1 U	5 U	5 UJ	5 U	5 U		1 U	5 U
1,2-Dichloroethene, Total 5 1 NA 18 20 NA 4 2.8 3 3 NA 4.4 5.7 1,2-Dichloropropane 1 5 0.5 1 1 5 1 1 5 1 1 5 1 1 5 5 5 0 0.5 1 1 5 1 1 5 5 5 0 0.5 1 1 5 1 1 5 1 1 5 5 5 1 1 0 5 1 1 5 5 5 1 1 0 5 1 1 0 5 1 1 0 5 1 1 0 5 1 1 1 0 5 1 1 0 5 1 1 1 0 5 1 1 1 0 5 1 1 0 5 1 1 1 1 0 5 1 5 1 1 1 <td< td=""><td>1,2-Dichlorobenzene</td><td>3</td><td>5 U</td><td>0.5 U</td><td>1 U</td><td>5 U</td><td>1 U</td><td>5 U</td><td>5 U</td><td>5 U</td><td>5 U</td><td>0.5 U</td><td>1 U</td><td>5 U</td></td<>	1,2-Dichlorobenzene	3	5 U	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
1,2-Dichloropropane 1 5 U 0.5 U 1 U 5 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1,3-Dichlorobenzene 3 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 5 U 0.5 U 1 U 5 1,4-Dichlorobenzene 3 5 U 0.5 U 1 U 5 U	1,2-Dichloroethane	0.6	5 U	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
1,3-Dichlorobenzene 3 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1.4-Dichlorobenzene 3 5 U 0.5 U 1 U 5 U 1 U 5 U </td <td>1,2-Dichloroethene, Total</td> <td>5</td> <td></td> <td>NA</td> <td>18</td> <td>20</td> <td>NA</td> <td>4</td> <td>2.8</td> <td>3</td> <td></td> <td>NA</td> <td>4.4</td> <td>5.7</td>	1,2-Dichloroethene, Total	5		NA	18	20	NA	4	2.8	3		NA	4.4	5.7
1.4-Dichlorobenzene 3 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 1 U 5 U 2-Butanone (MEK) 5 5 U	1,2-Dichloropropane	1	5 U	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
2-Butanone (MEK) 5 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U	1,3-Dichlorobenzene	3	5 U	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
2-Hexanone 5 5 U 5	1,4-Dichlorobenzene	3	5 U	0.5 U	1 U	5 U	1 U	5 UJ	5 U	5 U	5 U	0.5 U	1 U	5 U
4-Methyl-2-pentanone (MIBK) 5 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 1	2-Butanone (MEK)	5	5 U	5 U	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 UJ
Acetone 5 5 UJ 5 U<	2-Hexanone	5	5 U	5 U	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U
Benzene 1 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U Bromodichloromethane 5 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 0.5 U 1 U 5 U 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 0.5 U 1 U 5 U 5 U 0.5 U	4-Methyl-2-pentanone (MIBK)	5	5 U	5 U	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane 5 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 5 U 1 U 5 U 5 U 5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 5 U 1 U 5 U 1 U 5 U 5 U 1 U 5 U <td>Acetone</td> <td>5</td> <td>5 UJ</td> <td>5 U</td> <td>5 J</td> <td>R</td> <td>R</td> <td>5 UJ</td> <td>5 U</td> <td>5 U</td> <td>5 UJ</td> <td>5 U</td> <td>5 U</td> <td>R</td>	Acetone	5	5 UJ	5 U	5 J	R	R	5 UJ	5 U	5 U	5 UJ	5 U	5 U	R
Bromoform 5 5 U 0.5 U 1 UJ 5 U 1 UJ 5 U 5 U 5 U 5 U 1 UJ 5 U 5 U 5 U 5 U 1 UJ 5 U 5 U 5 U 5 U 1 UJ 5 U 5 U 5 U 5 U 1 UJ 5 U 5 U 5 U 5 U 1 UJ 5 U 5 UJ 5	Benzene	1	5 U	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
Bromomethane 5 5 0 1 U 5 U 1 U 5 U 1 U 5 U 1 U 5 U 5 U 1 U 5 U 5 U 1 U <t< td=""><td>Bromodichloromethane</td><td>5</td><td>5 U</td><td>0.5 U</td><td>1 U</td><td>5 U</td><td>1 U</td><td>5 U</td><td>5 U</td><td>5 U</td><td>5 U</td><td>0.5 U</td><td>1 U</td><td>5 U</td></t<>	Bromodichloromethane	5	5 U	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
Carbon disulfide 60 5 U 0.5 U 1 U 5 U 1 U 5 U	Bromoform	5	5 U	0.5 U	1 UJ	5 U	1 U	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
Carbon Tetrachloride 5 5 0 5 1 U 5 U 1	Bromomethane	5	5 U	0.5 U	1 U	5 U	1 U	5 UJ	5 UJ	5 UJ	5 UJ	0.5 U	1 UJ	5 U
Chlorobenzene 5 5 0 5 0 1 U 5 U <	Carbon disulfide	60	5 U	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
Chlorodibromomethane NA 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U	Carbon Tetrachloride	5	5 U	0.5 U	1 U	5 U	1 UJ	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
Chloroethane 5 5 UJ 0.5 U 1 U 5 U 1 U 5 UJ 5 UJ 0.5 U 1 U 5 U 5 UJ 5 U 5 U 1 U 5 U 5 U 5 U 5 U 1 U 5 U 5 U 5 U 5 U 1 U 5 U 5 U 1 U 5 U	Chlorobenzene	5	5 U	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
Chloroform 7 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 5 U 1 U 5 U 5 U 5 U 5 U 1 U 5 U 5 U 1 U 5 U 5 U 5 U 5 U 1 U 5 U 5 U 5 U 5 U 1 U 5 U 5 U 5 U 5 U 5 U 1 U 5 U 5 U 5 U 5 U 5 U 1 U 5 U	Chlorodibromomethane	NA	5 U	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
Chloroform 7 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 5 U 1 U 5 U 5 U 5 U 5 U 1 U 5 U 5 U 5 U 5 U 1 U 5 U	Chloroethane	5	5 UJ	0.5 U	1 U	5 U	1 U	5 UJ	5 U	5 U	5 U	0.5 U	1 U	5 U
Chloromethane 5 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U 5 U 5 U 5 U 5 U 1 U 5 U 5 U 1 U 5 U 5 U 5 U 5 U 1 U 5 U 5 U 5 U 1 U 5 U 5 U 1 U 5 U 5 U 1 U 5 U 5 U 1 U 5 U 5 U 1 U 5 U 5 U 1 U 5 U 5 U 1 U 5 U	Chloroform		5 U	0.5 U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
cis-1,2-Dichloroethene 5 1 J 84 18 20 12 4 J 3 J 3 J 3 J 4.4 4.4 5.7 cis-1,3-Dichloropropene 0.4 5 U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 0.5 U 1 U 5 U		5			1 U		1 U	5 U	5 U	5 U	5 U		1 U	5 U
cis-1,3-Dichloropropene 0.4 5U 0.5 U 1 U 5 U 1 U 5 U 5 U 5 U 5 U 0.5 U 1 U 5					18	20	12						4.4	5.7
	cis-1,3-Dichloropropene		5 U					5 U	5 U	5 U			1 U	
[Cyclohexane] NA [5 U] 0.5 U] 1 U] 5 U] 1 U] 5 U] 5 U] 5 U] 5 U] 5 U] 0.5 U] 1 U] 5	Cyclohexane	NA	5 U	0.5 U	1 U	5 U	1 UJ	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
·					1 U								1 U	
					-									
,	,				-		-							
														5 UJ
	,												_	5 U

Utility Manufacturing/Wonder King

							0,		0					
	NYS	MW13D	MW	1S	MW1S	MW1S	MW1S	MW1S	MW1S	MW1S	MW1S	MW1D	MW1D	MW1D
Units: µg/L	Class GA	6/24/2016	4/5/2	005	5/12/2010	8/10/2011	4/24/2012	6/20/2013	6/3/2014	5/28/2015	6/23/2016	4/5/2005	5/12/2010	8/10/2011
Methylcyclohexane	NA	5 U	0.5	U	1 U	5 U	1 U	5 U	5 U	5 U	5 UJ	0.5 U	1 U	5 U
Methylene Chloride	5	5 U	0.5	U	1 U	5 U	1 UJ	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
Styrene	5	5 U	0.5	U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
Tetrachloroethene (PCE)	5	3 J	220		8.9	4.4 J	5.5	4 J	2 J	3 J	2 J	<mark>8.6</mark>	<mark>18</mark>	6.6
Toluene	5	5 U	0.5	U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
trans-1,2-Dichloroethene	5	5 U	0.76		1 U	5 U	1 U	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
trans-1,3-Dichloropropene	0.4	5 U	0.5	U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
Trichloroethene (TCE)	5	11	33		3.1 U	2.2 J	1.8 J	2 J	5 U	5 U	5 U	<mark>54</mark>	<mark>74</mark>	65
Trichlorofluoromethane	5	5 U	0.5	U	1 U	5 U	1 U	5 UJ	5 U	5 U	5 U	0.5 U	1 U	5 U
Vinyl chloride	2	5 U	0.5	U	1 U	5 U	1 U	5 U	5 U	5 U	5 U	0.5 U	1 U	5 U
Xylenes, total	5	5 U	0.5	U	2 U	5 U	2 U	5 U	5 U	5 U	5 U	0.5 U	2 U	5 U

Utility Manufacturing/Wonder King

	NYS	MW1D	MW1D	MW1D	MW1D	MW1D	NC-12	NC-12	NC-12	NC-12
Units: µg/L	Class GA	4/24/2012	6/20/2013	6/3/2014	5/27/2015	6/23/2016	6/20/2013	6/3/2014	5/28/2015	6/24/2016
1.1.1-Trichloroethane	5	4/24/2012 9.9 J	9/20/2013	6/3/2014	3/27/2015 4 J	6/23/2010 4 J	5 U	5 U	5/26/2015 5 U	5 U
1,1,2,2-Tetrachloroethane	5 5	9.9 J 1 U	9 5 U	5 UJ	4 J 5 U	4 J 5 U	5 U	5 UJ	5 U 5 U	5 U
1,1,2,2-Tetrachloroethane	5 1	1 U	5 U	5 U 5 U	5 U	5 U	5 U	5 U	5 U 5 U	5 U
1,1,2-Trichlorotrifluoroethane	5	1 U	NA	NA	NA	NA	NA	NA	NA	NA
1.1-Dichloroethane	5	2.8	3 J	5 U	10A 2 J	1 J	5 U	5 U	5 U	5 U
1.1-Dichloroethene	5	2.0 24	28	15 15	2 J 16	10 16	5 U	5 U	5 U	5 U
1,1-Dichlorobenzene	5 5	24 1 U	∠o 5 UJ	5 UJ	5 U	5 U	5 U 5 UJ	5 U 5 UJ	5 U 5 U	5 U
1,2-Dibromo-3-chloropropane	0.04	1 U	5 UJ	5 UJ R	5 U	5 U	5 UJ	5 UJ R	5 U 5 U	5 U
1,2-Dibromoethane (EDB)	0.04	1 U	5 UJ 5 U	5 UJ	5 U	5 U	5 UJ 5 U	5 UJ	5 U 5 U	5 U
	-	-								
1,2-Dichlorobenzene	3	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	0.6	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene, Total	5	NA	7	<u>5.9</u>	5	4	5 U	5 U	5 U	5 U
1,2-Dichloropropane	1	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	3	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	3	1 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)	5	5 U	5 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 U
2-Hexanone	5	5 U	5 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 U
4-Methyl-2-pentanone (MIBK)	5	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	5 U	5 U
Acetone	5	R	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 U	5 UJ
Benzene	1	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5	1 U	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 U
Carbon disulfide	60	1 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U
Carbon Tetrachloride	5	1 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorodibromomethane	NA	1 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U
Chloroethane	5	1 U	5 UJ	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ
Chloroform	7	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 J	5 U
Chloromethane	5	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	<mark>6.6</mark>	7	6	5	4 J	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	0.4	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cyclohexane	NA	1 UJ	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U
Dichlorodifluoromethane	5	1 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 UJ	5 U
Ethylbenzene	5	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Isopropylbenzene	5	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl Acetate	NA	1 UJ	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U
Methyl tert-Butyl Ether	5	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Utility Manufacturing/W	Nonder King
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					,	0.		0		
	NYS	MW1D	MW1D	MW1D	MW1D	MW1D	NC-12	NC-12	NC-12	NC-12
Units: µg/L	Class GA	4/24/2012	6/20/2013	6/3/2014	5/27/2015	6/23/2016	6/20/2013	6/3/2014	5/28/2015	6/24/2016
Methylcyclohexane	NA	1 U	5 U	5 U	5 U	5 UJ	5 UJ	5 U	5 U	5 U
Methylene Chloride	5	1 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene (PCE)	5	24	<mark>26</mark>	<mark>13</mark>	12	15	5 U	5 U	5 U	5 U
Toluene	5	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	5	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	0.4	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene (TCE)	5	<mark>110</mark> J	110	77	61	74	5 U	5 U	5 U	5 U
Trichlorofluoromethane	5	1 U	5 UJ	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U
Vinyl chloride	2	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes, total	5	2 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

MNA Parameters in Groundwater

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		NY							MW11	S													MW11D					
ANALYTE	UNITS	Class GA	5/12/2	010	10/3/2	011	4/24/20	12	6/20/20	13	6/3/201	14	5/27/20	15	6/24/2016	6	5/12/20)10	10/3/20	11	4/24/20	012	6/20/2013	6/3/20	14	5/27/201	15	6/24/201
Methane	µg/L	NA	1	U	1.9		1.8		1	U	1	U	1	U	1 L	J	0.63	J	1.7		13		1 U	1	U	0.3	J	1 1
Carbon Dioxide	µg/L	NA	5200		1750		2340		13200		10600		1800		35500		1000		7350		10300		26400	25500		7000		8000
Sulfate	mg/L	250	16.1	В	12		23.5		44.6		38.3		31.6		40.6		28.4	В	17		15.6		16.2	17.3		16.4		13.5
Nitrogen, Nitrate	mg/L-N	10	1.42		1.3	В	2.3	D	2.31	D	2.04	D	1.73	D	1.58		1.62		1.3	В	1.2	D	0.77	0.67	D	0.9		0.88
Iron - Dissolved	mg/L	300	0.05	U	0.2	U	0.05	В	0.04	В	0.02	В	0.01	В	0.10 L	J	0.05	U	0.2	U	0.23		0.35	0.01	В	0.11		0.12
Dissolved Oxygen																												
Laboratory	mg/L	NA	10.5		33.6		50.4		12.0		8.4		12.6		9.5		10.6		35.6		37.3		1.8	7.0		3.8		2.8
Field	mg/L	NA	9.7		13.4		14.0		6.7		7.8		8.0		14.7		3.8		3.1		2.8		0.7	8.6		1.5		1.8
Temperature																												
Field	Celsius	NA	14.4		17.9		11.7		22.2		16.2		15.1		17.9		13.3		19.0		15.9		18.9	20.5		15.3		20.4

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

Utility Manufacturing/Wonder I	ling
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		NY	MW1	2S	(dup))					MM	/1:	2S										MW120	5			
ANALYTE	UNITS	Class GA	5/11/2	010	5/11/2	010	8/9/20	011	4/24/2	012	6/20/201	3	6/3/2014	4	5/27/201	15	6/27/20	16	5/11/2	010	8/9/20)11	4/24/201	12	6/20/20	13	6/3/2014
Methane	µg/L	NA	1	U	1	U	0.61		1.8		1	U	1	U	1	U	1	U	1	U	0.63		1.6		1	U	1 U
Carbon Dioxide	µg/L	NA	3500		3400		6400		3530		8800		35200		6200		16400		3500		2300		8150		13200		15800
Sulfate	mg/L	250	28.9		29		37		47.6		39.2		41.2		45		30.7		46.8		25		29.3		22.8		20.1
Nitrogen, Nitrate	mg/L-N	10	2.97		2.97		4	В	3.77		2.68	D	2.12	D	1.62	D	1.45	D	3.38	D	2.4	В	2.59		2.57	D	2.38 D
Iron - Dissolved	mg/L	300	0.05	U	0.05	U	0.2	U	0.2	U	0.04	В	0.02	В	0.01	U	0.10	U	0.05	U	0.2	U	0.2	U	0.09	В	0.01 B
Dissolved Oxygen																											
Laboratory	mg/L	NA	11.3		11.3		37.2		27.4		8.9		9.1		13.4		8.0		9.9		47.4		35.0		9.9		9.4
Field	mg/L	NA	10.1		NA		7.5		12.7		3.3		6.5		7.9		17.4		9.9		15.8		8.3		8.3		4.8
Temperature																											
Field	Celsius	NA	15.8		NA		20.1		15.0		38.8		20.4		18.2		20.1		17.2		18.7		10.5		18.1		20.4

Table 4
MNA Parameters in Groundwater
Utility Manufacturing/Wonder King

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		NY	1	WW	12D			MW13S										MW13D												
ANALYTE	UNITS	Class GA	5/27/20)15	6/27/2	016	5/11/2	010	8/9/20)11	4/24/2	012	6/20/20	13	6/4/2014	4	5/28/2015	5	6/24/2016	5/	/11/201	0	8/9/201	1	4/24/20	ງ12	6/20/20	13	6/4/201	4
Methane	µg/L	NA	1	U	1	U	1	U	0.63		2.0		1	U	1	U	1 l	J	1 U		1 L	J	0.67		1.7		1	U	1	U
Carbon Dioxide	µg/L	NA	3100		20300)	17000		11000)	12900		17600		34300		16300		33900	90	000		13600		22400		30800		17600	
Sulfate	mg/L	250	21.2		22.3		47.9		28		39.5		31.2		33.2		27.8		28.5	1	2.4		12		16.5		9.94		10.5	
Nitrogen, Nitrate	mg/L-N	10	2.43	D	2.32	D	3.81	D	4.4	В	5.34		4.44	D	3.31	D	3.03	D	3.14 D	6	. 39 [)	4.6	В	5.7		6.53	D	6.82	D
Iron - Dissolved	mg/L	300	0.01	U	0.10	U	0.05	U	0.2	U	0.2	U	0.04	В	0.01	В	0.02 E	3	0.10 U	0	.05 L	J	1.17	U	0.2	U	0.04	В	0.12	
Dissolved Oxygen																														
Laboratory	mg/L	NA	6.7		9.2		12.2		16.9		18.4		9.3		12.2		9.9		8.4	9	9.3		16.0		52.3		5.5		1.0	
Field	mg/L	NA	4.9		5.1		10.1		7.5		10.7		8.0		8.8		4.8		5.5	1	0.1		4.5		3.3		5.7		0.1	
Temperature																														
Field	Celsius	NA	17.0		20.8		16.7		19.4		11.3		17.8		19.6		17.2		21.3	1	8.3		18.3		15.7		18.9		16.3	

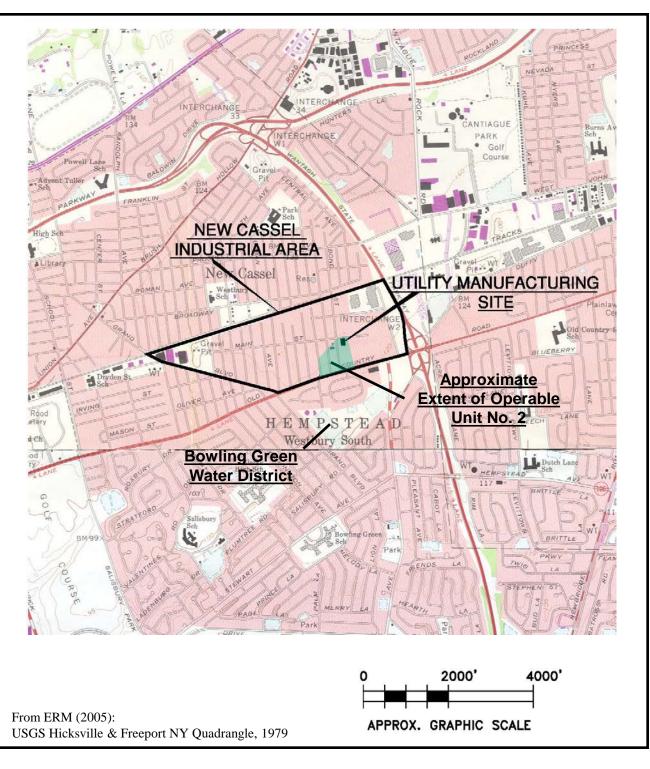
Table 4
MNA Parameters in Groundwater
Utility Manufacturing/Wonder King

											1			- 10	- on a critic													
		NY	MV	V13D				MW1S										MW1D										
ANALYTE	UNITS	Class GA	5/28/2015	5 6/24	4/201	6	5/12/20	010	8/10/2	011	4/24/20	12	6/20/20	13	6/20/2013	6/4/2	014	5/28	/2015	6/23/20)16	5/12/20	10	8/10/20)11	4/24/20	012	6/20/2013
Methane	µg/L	NA	0.3	J ·	1	U	1	U	0.7		1.7		1	U	1 U	1	U	1	U	1	U	1	U	0.78		1.8		1 L
Carbon Dioxide	µg/L	NA	7900	467	700		7700		10400		8790		26400		13200	2020	0	97	00	2400		15000		3860		13000		35200
Sulfate	mg/L	250	10	11	1.8		25.9	В	13		18.6		25.4		44.4	37.1		28	.9	24.5		24.4	В	16		22.5		20
Nitrogen, Nitrate	mg/L-N	10	6 [6.	44	D	1.85		2.2	В	2.6	D	2.39	D	2.27 D	1.94	D	1.7	73 D	3.14	D	2.8		2.5	В	2.4	D	1.67 D
Iron - Dissolved	mg/L	300	0.12	0.	10	U	0.05	U	0.2	U	0.05	В	0.05	В	0.06 B	0.02	В	0.0)2 B	0.10	U	0.029	J	0.2	U	0.036	В	0.20
Dissolved Oxygen																												
Laboratory	mg/L	NA	22.4	1	.7		6.6		25.2		48.4		8.1		11.4	12.1		9.	6	9.2		4.2		38.0		18.3		2.3
Field	mg/L	NA	10.5	4	.3		6.8		12.2		10.4		7.0		NA	8.2		7.	4	14.6		0.6		16.8		2.3		1.1
Temperature																												
Field	Celsius	NA	17.9	22	2.7		15.8		17.9		15.9		19.3		NA	22.8		17	.0	18.4		15.2		20.8		16.4		17.7

MNA Parameters in Groundwater

			01	ii ty		nu	cturing	s/ ▼	Vonuci		5									
		NY				M٧	V1D				NC-12									
ANALYTE	UNITS	Class GA	6/20/20	13	6/4/201	14	5/27/20	15	6/23/20	16	6/28/20)13	6/4/20	14	5/28/20	15	6/24/20)16		
Methane	µg/L	NA	1	U	1	U	0.3	J	1	U	1	U	1	U	1	U	1	U		
Carbon Dioxide	µg/L	NA	35200		22000		10600		3400		26400		36100		18000		57300			
Sulfate	mg/L	250	20		16.1		13.8		17		134	D	86.1	D	40.5		83.7	D		
Nitrogen, Nitrate	mg/L-N	10	1.67	D	1.55	D	1.25		2.12	D	2.8	D	2.89	D	3.9	D	4.01	D		
Iron - Dissolved	mg/L	300	0.20		0.18		0.05	В	0.16		0.11		0.02	В	0.01	В	0.10	U		
Dissolved Oxygen																				
Laboratory	mg/L	NA	2.3		7.5		11.6		4.0		8.0		8.6		8.9		9.3			
Field	mg/L	NA	1.1		8.4		9.1		2.0		8.08		6.3		7.5		10.9			
Temperature																				
Field	Celsius	NA	17.7		23.2		19.8		18.6		18.9		20.7		17.4		21.8			

Utility Manufacturing/Wonder King



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

ENVIRONMENTAL CONSULTING ENGINEERS

	PROJECT: SITE MANAGEMENT	SITE LOCATION MAP
$\Lambda = C \cap M$		Project No: 60269807
	Utility Manufacturing/Wonder King, OU2 700 – 712 Main Street, Westbury, New York	Figure No: 1
		June 24, 2013

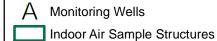


Utility Manufacturing/Wonder King 700 – 712 Main Street Westbury, New York

0 20 40

80 ⊐ Feet

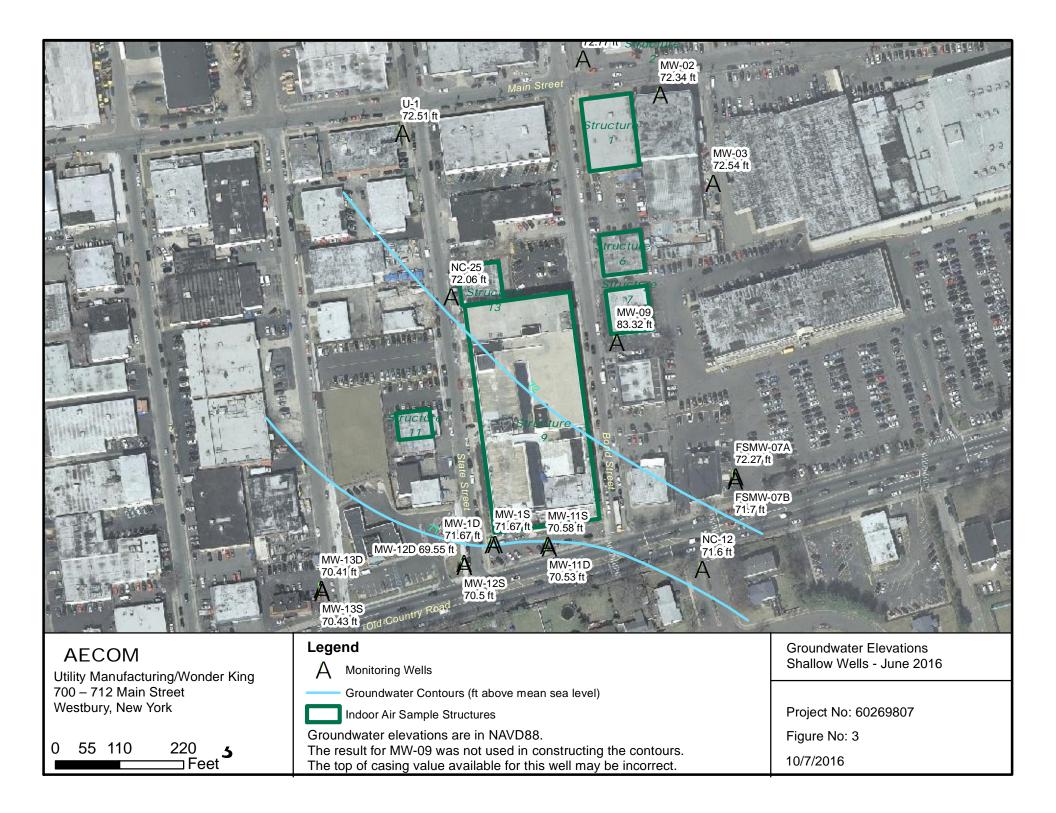
5



Project No: 60269807

Figure No: 2

June 24, 2013





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

0 25 50

Monitoring Wells

Groundwater Contours (ft above mean sea level)



Indoor Air Sample Structures

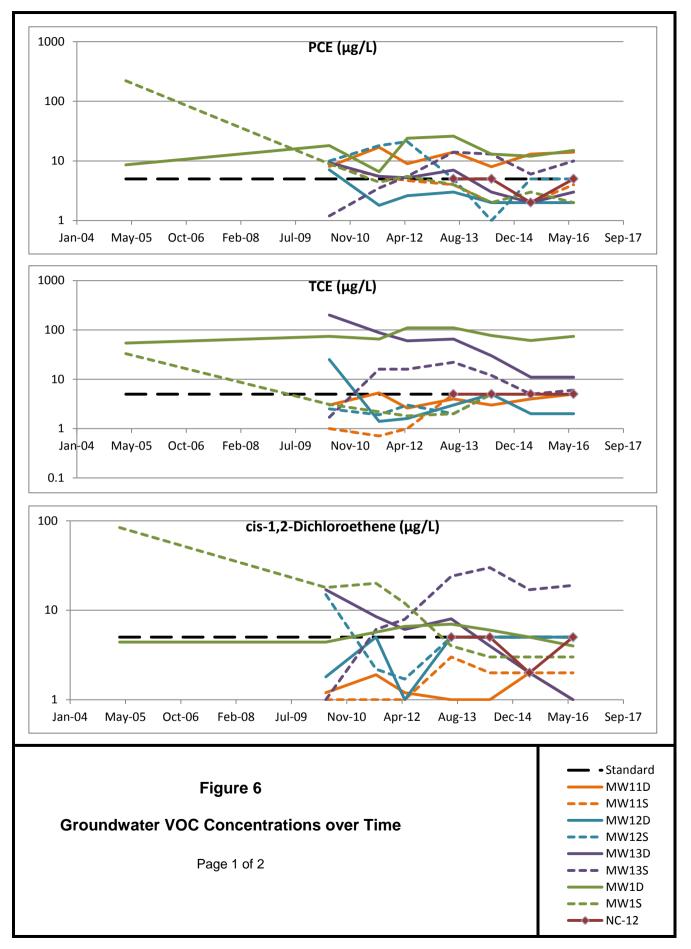
Groundwater elevations are in NAVD88.

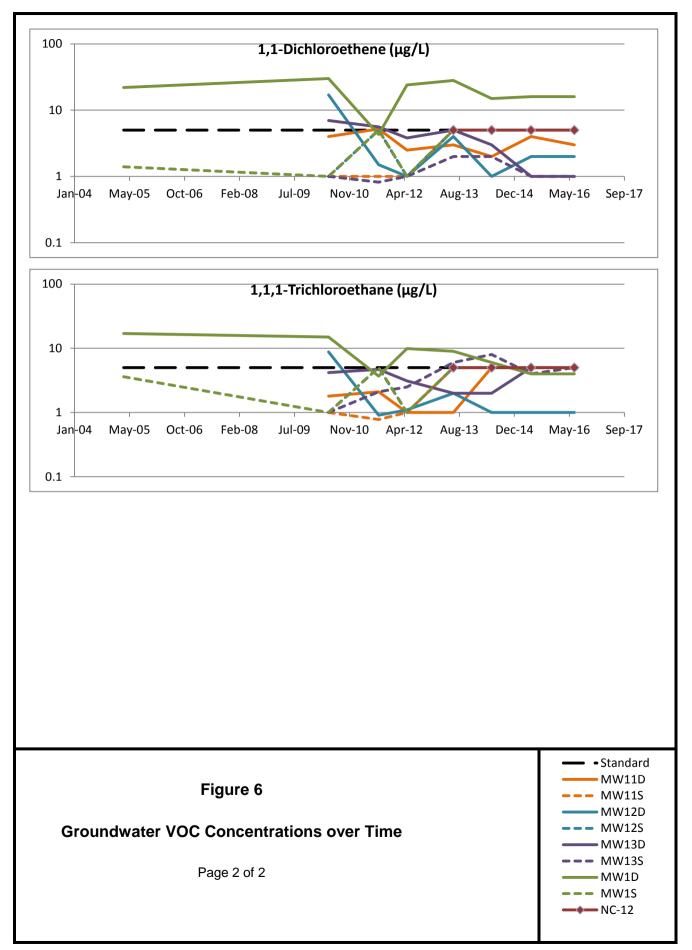
Project No: 60269807

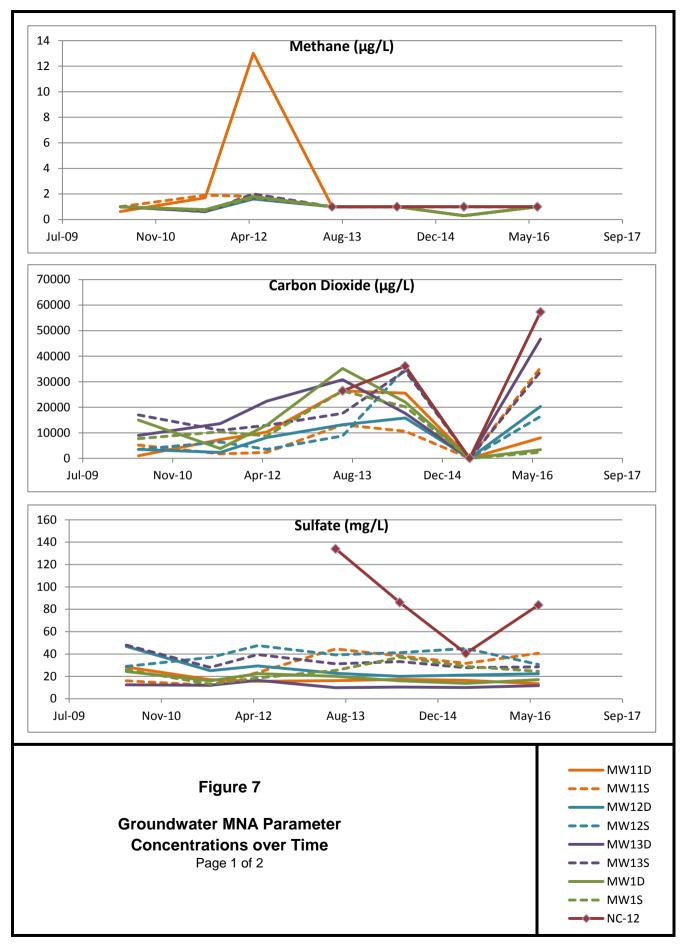
Figure No: 4

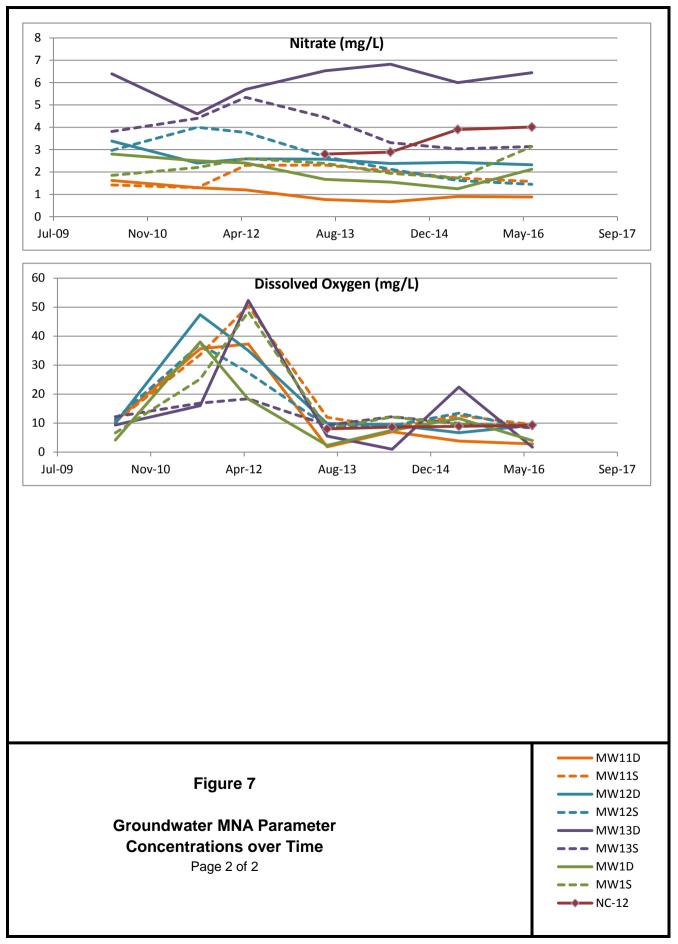
10/7/2016

PCE 1.2 3.5 J 3.3 J 5.5 14 13 J TCE 1.7 16 14 16 J 22 12 cis-1,2-DCE 1 U 6.1 5.3 7.9 24 30 J 1,1-DCE 1 U 0.82 J 0.74 J 1 U 2 J J 1,1,1-TCA 1 U 2.1 J 1.8 J 2.5 J 6 8 J 1,1-DCA 1 U 2.1 J 1.8 J 2.5 J 6 8 J 1,1-DCA 1 U 4.2 J 3.6 J 5.3 15 18 J 1,1-DCA 1 U 4.2 J 3.6 J 5.3 15 18 J PCE 9.4 5.5 5.2 7 3 J 2 J 3 TCE 200 88 60 J 65 30	PCE 220 8.9 4 TCE 33 3.1 U 2 cis-1,2-DCE 84 18 2 1,1-DCE 1.4 1 U 1,1,1-TCA 3.6 1 U 1,1,1-TCA 3.6 1 U 1,1,1-TCA 0.9 1 U MW1D 2005 2010 200 PCE 8.6 18 6.6 TCE 54 74 65 Cis-1,2-DCE 4.4 4.4 5.7 1,1-DCE 22 30 4.3 1,1,1-TCA 17 15 3.7 1,1-DCA 4 4.3 2.2 D16 J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J	24 26 13 12 15 110 J 100 77 61 74 6.6 7 6 5 4 J J 24 28 15 16 16 J 9.9 9 6 4 J 4	5.5 J 4.7 4 J 4 J 2 J 2 J 4 J 0.7 J 1 UJ 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 1 U 1 U 3 J J J 2 J
	MW12S 2010 (dup) 2011 20 PCE 10 10 18 21 TCE 3 2 2 J 3 cis-1,2-DCE 15 15 2 J 2 1,1-DCE 1 U 1 U 5 U 1 1,1-TCA 1 U 1 U 5 U 1 1,1-DCA 1 U 1 U 5 U 1 PCE 7.1 1.8 J 2.6 3 3 cis-1,2-DCE 1.4 J 1.6 J 1,1-DCE 17 1.5 1 U 4 1,1,1 Z <t< td=""><td>5 U 5 U 5 U 5 U U 5 U 5 U 5 U 5 U U 5 U 5 U 5 U 5 U U 5 U 5 U 5 U 5 U U 5 U 5 U 5 U 5 U 013 2014 2015 2016 Image: Constraint of the state of the st</td><td>NC-12 2013 2014 2015 2016 PCE S U S</td></t<>	5 U 5 U 5 U 5 U U 5 U 5 U 5 U 5 U U 5 U 5 U 5 U 5 U U 5 U 5 U 5 U 5 U U 5 U 5 U 5 U 5 U 013 2014 2015 2016 Image: Constraint of the state of the st	NC-12 2013 2014 2015 2016 PCE S U S
AECOM Utility Manufacturing/Wonder King 700 – 712 Main Street Westbury, New York 0 2040 80	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.	Groundwater Sampling Results Project No: 60269807 Figure No: 5
Feet		(dup) Environmental duplicate sample	9/14/2016









APPENDIX A

Field Forms



WELL NO. MW-1D

A/F-1 -	0 4 14 27								PROJECT No.	SHEET		SHEE
		ING FOR	VI	Utility Ma	nufacturing	g/vvonder	King Site	DATE WELL STA	60269807 RTED	DATE WELL COMPLETE	OF	1
	ury, NY							June 23, 20		June 23, 2016	-	
lient NYSDE	-							NAME OF INSPE	CTOR			
RILLING (COMPANY							Celeste Fo	ster (AECOM))		
JA I	Depth											
	to	Purge				ASUREMIEN						
Time	Water (ft)	Rate (ml/min)	Temp. (⁰C)	Conduct. (ms/cm)	DO (mg/L)	рН	ORP (mV)	Turbidity (ntu)		REMARKS		
	48.2								Static level			
1130									Pump on			
1145	48.2	250	19.86	0.355	2.13	5.62	113	>1000				
1155	48.2	250	17.61	0.375	2.38	5.33	167	>1000				
1205	48.2	250	17.31	0.352	2.61	5.23	220	834				
1215	48.2	250	17.17	0.329	2.46	5.22	237	492				
1220	48.2	250	17.21	0.321	2.36	5.21	239	433				
1230	48.2	250	18.50	0.311	1.89	5.23	233	366				
1225	48.2	250	18.57	0.302	2.00	5.23	237	352				
1240	48.2	250	18.60	0.301	2.01	5.23	236	357				
1245	48.2	250	18.62	0.301	1.98	5.23	235	348				
1250									Sample colle	ected		
								1				
								1				
Pump 7	Гуре:	Bladder p	oump wit	h dedicate	ed tubing fo	or samplin	g					
nalytio	cal Para	meters:	VOCs, r	nethane, d	carbon dio	xide, disso	olved oxyg	jen, iron				



WELL NO. MW-1S

		ING FORI		PROJECT Utility Ma	nufacturing	g/Wonder	King Site	DATE WELL STA	PROJECT No. 60269807	SHEET 1 DATE WELL COMPLETE	OF	shei 1
/estbu	ury, NY							June 23, 20	016	June 23, 2016	5	
lient IYSDE	-C							NAME OF INSPEC	сток ster (AECOM)			
RILLING	COMPANY									/		
IA I	Depth				FIELD ME	ASUREMEN	ITS					
	to	Purge	_					I -				
Time	Water (ft)	Rate (ml/min)	Temp. (⁰C)	Conduct. (ms/cm)	DO (mg/L)	рН	ORP (mV)	Turbidity (ntu)		REMARKS		
	48.05								Static level			
1145								L	Pump on			
1155	48.02	250	19.55	0.266	10.98	5.81	259	61.7				
1200	48.02	250	19.03	0.267	15.83	5.78	280	227				
1210	48.02	250	18.69	0.241	15.68	5.67	303	166				
1220	48.02 48.02	250	18.65	0.229	15.20	5.65	317	973				
1230 1240	48.02	250 250	18.37 18.44	0.219 0.215	15.09 14.63	5.59 5.56	331 340	42.4 27.2				
1250	48.02	250 250	18.42	0.215	14.56	5.60	338	25.8				
1300	48.02	250	18.42	0.210	14.64	5.59	340	26.5				
1305	10.02	200	10.12	0.211	11.01	0.00	0.10	20.0	Sample colle	ected		
								ļ				
								ļ				
								ļ	ļ			
								 				
									L			
ump ⁻	Гуре:	Bladder p	oump wit	h dedicate	d tubing fo	or sampling	g					
nalyti	cal Para	meters:	VOCs, r	nethane, c	carbon dio	xide, dissc	lved oxyg	en, iron				



WELL NO. MW-11D

		ING FOR		PROJECT Utility Ma	nufacturin	King Site		PROJECT No. 60269807		OF	shee 1	
Vestb	ury, NY							June 24, 2	016	date well completed June 24, 2016)	
lient IYSDE	=C							NAME OF INSPE	сток ster (AECOM)		
RILLING	COMPANY)		
A.R./	Clearwa	ter Drillin	g, Inc.		FIELD ME	ASUREMEN	ITS					
-	to	Purge	_					· - · · · ·				
Time	Water (ft)	Rate (ml/min)	Temp. (ºC)	Conduct. (ms/cm)	DO (mg/L)	рН	ORP (mV)	Turbidity (ntu)		REMARKS		
	48.98								Static level			
730									Pump on			
740	49.85	250	19.19	0.338	3.26	6.68	125	>1000				
750	49.85	250	18.67	0.344	2.35	6.56	106	>1000				
800	49.87	250	18.48	0.342	2.12	6.48	111	>1000				
810 825	49.76 49.55	250 250	19.00 19.49	0.325 0.321	1.67 1.76	6.19 6.18	162 171	683 >1000				
835	49.55	250	19.49	0.321	1.83	6.19	171	925				
000	40.02	200	10.00	0.020	1.00	0.15	170	525	Cleaned the	Horiba		
0900	49.6	250	20.52	0.318	1.96	6.18	170	685		Tionba		
0910	49.6	250	20.56	0.316	1.92	6.20	171	630				
0920	49.6	250	20.37	0.311	1.83	6.20	173	612				
0925									Sample colle	ected		
			ļ									
								ļ				
Pump ⁻	Туре:	Bladder p	oump wit	h dedicate	ed tubing fo	or sampling	g					
•			-		-							
nalvti	cal Para	meters:	VOCs. r	methane, o	carbon dio	xide disso	lved ovva	on iron				



WELL NO. MW-11S

DATE WELL COMPLETED	1
June 24, 2016	
AECOM)	
REMARKS	
np on	
nple collected	
nple collected for DO	



WELL NO. MW-12D

PROJEC PROJECT No. SHEET SHEET WELL SAMPLING FORM Utility Manufacturing/Wonder King Site 60269807 1 1 OF DATE WELL STARTED DATE WELL COMPLETED I OCATION Westbury, NY June 27, 2016 June 27, 2016 CLIENT NAME OF INSPECTOR NYSDEC Celeste Foster (AECOM) DRILLING COMPANY E.A.R./Clearwater Drilling, Inc. FIELD MEASUREMENTS Depth Purge to Time Water Rate Temp. Conduct. DO pН ORP Turbidity REMARKS (ml/min) . (°C) (ms/cm) (mg/L) (mV) (ntu) (ft) 1150 48.71 Static level 1153 Pump on 1205 48.34 250 20.83 0.445 5.84 6.02 216 310 1210 48.05 250 20.69 0.446 5.76 6.00 229 303 1215 48.00 250 20.6 0.441 5.62 5.97 234 300 1225 47.92 250 19.65 0.442 5.61 5.97 243 >1000 1235 48.00 250 19.15 0.441 5.78 5.98 242 >1000 1245 48.00 250 21.90 0.415 5.89 6.35 128 >1000 1255 48.00 250 20.82 0.408 5.34 5.98 204 785 48.00 0.399 483 1305 250 21.05 5.10 5.94 214 1315 48.00 250 20.99 0.399 5.11 5.95 214 468 1325 48.00 250 20.97 0.397 5.13 5.96 216 395 1330 48.00 250 20.79 0.399 5.12 5.96 217 393 1335 48.00 250 20.76 0.397 5.11 5.95 218 374 1340 Sample collected Bladder pump with dedicated tubing for sampling Pump Type: Analytical Parameters: VOCs, methane, carbon dioxide, dissolved oxygen, iron



WELL NO. MW-12S

PROJEC PROJECT No. SHEET SHEET WELL SAMPLING FORM Utility Manufacturing/Wonder King Site 60269807 1 1 OF DATE WELL STARTED DATE WELL COMPLETED LOCATION Westbury, NY June 27, 2016 June 27, 2016 CLIENT NAME OF INSPECTOR NYSDEC Celeste Foster (AECOM) DRILLING COMPANY E.A.R./Clearwater Drilling, Inc. FIELD MEASUREMENTS Depth Purge to DO Turbidity Time Water Rate Temp. Conduct. рΗ ORP REMARKS (ft) (ml/min) (°C) (ms/cm) (mg/L) (mV) (ntu) 1200 47.38 Static level 1205 Pump on 1215 47.40 250 23.14 0.193 12.01 5.79 307 183 47.42 1225 250 20.06 0.176 19.00 5.36 363 143 1235 47.40 20.02 5.38 80.5 250 0.169 18.77 374 1245 47.40 20.01 18.25 250 0.165 5.57 362 55.7 1255 47.40 250 20.04 0.164 17.80 5.58 358 46.1 1300 47.40 250 20.08 0.164 17.54 5.62 360 46.3 1305 47.40 250 20.06 0.164 17.41 5.63 365 44.5 1310 Sample collected Bladder pump with dedicated tubing for sampling Pump Type: Analytical Parameters: VOCs, methane, carbon dioxide, dissolved oxygen, iron



WELL NO. MW-13D

ocation Vestbu				,	laluotailin	g/wonuer	King Site		60269807		OF	1
	ıry, NY							June 24, 20		date well complete June 24, 2016	ED	
VYSDE	-							NAME OF INSPE				
RILLING C	OMPANY							Celeste I U)		
E.A.R./0	Clearwa Depth	ater Drilling	g, Inc.				ITE					
	to	Purge										
Time	Water (ft)	Rate (ml/min)	Temp. (⁰C)	Conduct. (ms/cm)	DO (mg/L)	рН	ORP (mV)	Turbidity (ntu)		REMARKS		
	49.59								Static level			
1045 1055	46.04	250	27.01	0.24	0.00	5.84	344	716	Pump on			
	46.04	250 250	27.01	0.24	0.00	5.88	344	468				
	46.04	250	28.05	0.239	0.00	5.88	341	408				
	46.04	250	31.00	0.237	0.00	6.21	316	299				
	46.04	250	31.72	0.243	0.00	6.25	311	258				
1145	46.04	250	32.16	0.238	0.00	6.24	312	195				
1150	46.04	250	31.45	0.231	0.00	6.25	312	187				
1155	46.04	250	30.59	0.233	0.00	6.22	314	159				
	46.04	250	21.67	0.227	4.18	5.67	348	194				
	46.04	250	22.87	0.225	4.86	6.05	324	496				
	46.04	250	23.00	0.223	4.49	6.15	314	342				
	46.04	250	22.97	0.223	4.35	6.16	319	328				
1245 1250	46.04	250	22.71	0.223	4.28	6.19	319	329	Sample colle	atad		
1250										ecieu		
\rightarrow												
\rightarrow												
-+												
-+												
-+												
-+												
		l		I I	ļ		1	P	4			
oump T	ype:	Bladder p	oump wit	h dedicate	d tubing fo	or sampling	g					
•			-		-	-						



WELL NO. MW-13S

		ING FOR	М	^{ркојест} Utility Ma	nufacturing	g/Wonder	King Site	DATE WELL STA	PROJECT No. 60269807	SHEET 1 DATE WELL COMPLETED	OF	shee 1
	ury, NY							June 24, 20		June 24, 2016		
	ary, rer							NAME OF INSPE				
NYSDE								Celeste Fo	ster (AECOM)		
	COMPANY	ater Drillin	a Inc									
	Depth		g, me.		FIELD ME	ASUREMEN	NTS					
Time	to Water (ft)	Purge Rate (ml/min)	Temp. (ºC)	Conduct. (ms/cm)	DO (mg/L)	рН	ORP (mV)	Turbidity (ntu)		REMARKS		
	45.84	(111/1111)	(0)	(ms/cm)	(iiig/L)		(111)	(11.07)	Static level			
1030									Pump on			
1045	45.86	250	21.25	0.368	6.11	5.92	227	716				
1055	45.84	250	21.27	0.355	5.60	5.90	230	429				
1105	45.84	250	21.23	0.356	5.66	5.88	232	351				
1120	45.84	250	21.26	0.368	5.50	5.82	238	184				
1130	45.84	250	21.35	0.394	5.51	5.75	244	151				
1140	45.84	250	21.36	0.405	5.52	5.70	250	112				
1150	45.84	250	21.21	0.413	5.50	5.68	252	102				
1155	45.84	250	21.25	0.415	5.49	5.66	254	91.5				
1200	45.84	250	21.29	0.417	5.48	5.65	255	86.1				
1205	45.84	250	21.29	0.418	5.46	5.66	256	85.3				
1210									Sample colle	ected		
1215									Duplicate sa	mple collected		
									MW-53S-20	160624		
_												
'ump ⁻	Туре:	Bladder p	oump wit	h dedicate	ed tubing fo	or sampling	g					
Pump ⁻ Analyti		-	-		ed tubing fo		-	en, iron				



WELL NO. NC-12

				PROJECT				PROJECT No.	SHEET	SHEE	
WELL S	AMPLING	G FORM			nufacturin	g/Wonder	King Site		60269807	1	оғ 1
LOCATION								DATE WELL STA		DATE WELL COMPLETED	
Westbury	/, NY							June 24, 20	016	June 24, 2016	
CLIENT NYSDEC									ctor ster (AECOM))	
DRILLING COL										1	
NA											
	Depth				FIELD ME	EASUREMEN	ITS				
Time	to Water (ft)	Purge Rate (ml/min)	Temp. (ºC)	Conduct. (ms/cm)	DO (mg/L)	рН	ORP (mV)	Turbidity (ntu)	-	REMARKS	
	49.40								Static level		
1320									Pump on		
1330	49.40	250	22.10	2.82	9.66	6.64	366	144			
1335	49.40	250	21.96	2.82	9.66	6.65	364	140			
1340	49.40	250	21.90	2.82	10.46	6.66	364	135			
1345	49.40	250	21.82	2.82	10.92	6.67	362	131			
1350			-						Sample colle	ected	
	-							+			
								-			
	1										
									1		
	1							1			
								1			
	1					ļ		+	1		
	<u>I</u>	1	Į	ļ			ļ	ļ	<u> </u>		
Pump Ty	no.	Bladdor r		h dedicate	d tubing f	or sampling	n				
r unp ry	he.					or sampling	J				
Apolytics	Doromo	tore		mothene	oarboo dia	vido dioco	lund over	on iron			
Analytica	raidiie	1015.	vuus, I	neulane, (xide, disso	iveu oxyg	en, ii0n			

Well ID: MW-1S	Date: 6/23/2016
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: 48.05 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	

Well ID: MW-1D	Date: 6/23/2016
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: 48.90 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	

Well ID: MW-11S	Date: 6/24/2016
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: 49.04 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	

Well ID: MW-11D	Date: 6/24/2016
Type: Flushmount	
Stickup Height: NA	
As Built Well Depth: <u>124 ft</u>	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: 48.98 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	

Well ID: MW-12S	Date: 6/27/2016
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: 47.38 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	

Well ID: MW-12D	Date: 6/27/2016
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: 48.71 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	

Well ID: MW-13S	Date: 6/24/2016
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: 45.84 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	

Well ID: MW-13D	Date: 6/24/2016
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:49.59 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	

Well ID: NC-12	Date: 6/24/2016
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



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

Client:	AECOM Technical Services, Inc., Chestnut Ridge, New York
SDG:	AECOM260
Laboratory:	Pace Analytical, Melville, New York
Site:	Utility Manufacturing/Wonder King, New Cassell, New York
Date:	August 22, 2016

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-1D-20160623	1606N78-001	Water
2	MW-1S-20160623	1606N78-002	Water
3	ТВ	1606N78-003	Water
4	STORAGE BLANK	1606N78-004	Water
5	MW-11D-20160624	1606O84-001	Water
6	MW-11S-20160624	1606O84-002	Water
7	MW-13D-20160624	1606O84-004	Water
8	MW-13S-20160624	1606O84-005	Water
9	MW-53S-20160624	1606O84-006	Water
10	NC-12-20160624	1606O84-007	Water
11	TB-20160624	1606O84-008	Water
12	MW-12D-20160627	1606Q47-001	Water
13	MW-12S-20160627	1606Q47-002	Water
14	TB-20160627	1606Q47-003	Water

A Data Usability Summary Review was performed on the analytical data for ten water samples, three aqueous trip blank samples, and one aqueous storage blank sample collected on June 23-27, 2016 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 8260C

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.

- Chloroethane was qualified as estimated in ten samples due to low LCS recoveries.
- Several 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

• MS/MSD samples were not analyzed.

Laboratory Control Samples

• The following table presents LCS percent recoveries (%R) outside the 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 and qualified (J). Results are valid and usable, however possibly biased.

LCS ID	Compound	%R	Qualifier	Affected Samples
LFB062716	Chloroethane	63%	J/UJ	6-11
LFB062816	Chloroethane	43%	J/UJ	5, 12-14

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
ΊB	ND	-	-	(m.)
STORAGE BLANK	Methylene Chloride	2	None	All ND
TB-20160624	ND	÷	걸	(4)
TB-20160627	ND		2	(= j

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
06/24/16	Bromomethane	43.8%	J/UJ	1-4
	Acetone	36.0%	J/UJ	
	Methylcyclohexane	36.8%	J/UJ	
06/27/16	Acetone	32.0%	J/UJ	6-11
06/28/16	Dichlorodifluoromethane	40.8%	J/UJ	5, 12-14
-	Bromomethane	64.9%	j/Uj	
	Acetone	46.8%	J/UJ	
	Methyl Acetate	30.4%	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-13S ug/L	MW-53S ug/L	RPD	Qualifier
1,1-Dichloroethene	1	1	0%	None
1,1-Dichloroethane	9	9	0%	
1,2-Dichloroethene (total)	20	19	5%	
cis-1,2-Dichloroethene	19	18	5%	
1,1,1-Trichloroethane	5	4	22%	
Trichloroethene	6	6	0%	
Tetrachloroethene	10	10	0%	

Tentatively Identified Compounds (TICs)

• One "known" TIC was detected in EDS Sample ID #2 and was qualified estimated (J).

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

Signed:

Nancy Weaver Dated: 0/22/16 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

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-1D-20160623

Lab Name:	PACE ANALY	FICAL	Contra	.ct;	572	
Lab Code:	10478	Case No.: AECO	<u>M-N</u> SAS	No.:	SDG No.:	AECOM260
Matrix: (so	il/water)	WATER		Lab Sample ID:	<u>1606N78-00</u>	<u>1A</u>
Sample wt/v	ol: <u>5</u>	(g/mL) ML		Lab File ID:	6\F79693.D	
Level: (1	ow/med)	LOW		Date Received:	06/23/16	(2)
<pre>% Moisture:</pre>	not dec.			Date Analyzed:	06/24/16	
GC Column:	DB~624	ID: 0.1	B (mm)	Dilution Factor:	1.00	
Soil Extrac	t Volume:	(1	L)	Soil Aliquot Volu	me	(µL)

CONCENTRATION UNITS:

AS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q	
/5-/1-8	Dichlorodifluoromethane	E	U	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl chloride	5	U	
74-83-9	Bromomethane	5	X	U
75-00-3	Chloroethanc	5	U	
75-69-4	Trichlorofluoromethane	5	U	
75-35-4	1,1-Dichloroethene	16		
67-64-1	Acetone	5	J	
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	1	J	
540-59-0	1,2-Dichloroethene (total)	4		-
156-59-2	cis-1,2-Dichloroethene	4	J	
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	Ú	1
71-43-2	Benzene	5	U	
107-06-2	1,2-Dichloroethane	5	υ	
79-01-6	Trichloroethene	74		
108-87-2	Methylcyclohexane	5	X	
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	υ	
108-88-3	Toluene	5	Ū	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	υ	
127-18-4	Tetrachloroethene	15		
591-78-6	2-Hexanone	5	υ	
124-48-1	Dibromochloromethane	5	υ	

OLM04.2

1B

EPA SAMPLE NO.

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VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-1D-20160623

Lab Name: PACE ANALY	TICAL Contra	let:	
Lab Code: 10478	Case No.: <u>AECOM-N</u> SAS	No.:	SDG No.: AECOM260
Matrix: (soil/water)	WATER	Lab Sample ID:	1606N78-001A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	6\F79693.D
Level: (low/med)	TOM	Date Received:	06/23/16
ኝ Moisture: not dec.		Date Analyzed:	06/24/16
GC Column: DB-624	ID: 0.18 (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Volu	me (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	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-20160623

Lab Name: PACE A	NALYTICAL Contr	act:	2
Lab Code: <u>10478</u>	Case No.: <u>AECOM-N</u> SA	S No.:	SDG No.: AECOM260
Matrix: (soil/wate	er) <u>WATER</u>	Lab Sample ID:	1606N78-002A
Sample wt/vol:	<u>5</u> (g/mL) <u>ML</u>	Lab File ID:	6\F79694.D
Level: (low/med)	LOW	Date Received:	06/23/16
% Moisture: not de	ec.	Date Analyzed:	06/24/16
GC Column: DB-62	24 ID: 0.18 (mm)	Dilution Factor:	1.00
Soil Extract Volum	ne: (µL)	Soil Aliquot Vol	ume (µL)

CONCENTRATION UNITS:

S NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q	
75-71-8	Dichlorodifluoromethane	5	U	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl chloride	5	U	1
74-83-9	Bromomethane	5	y	
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	X	-
75-15-0	Carbon disulfide	5	U	
79-20-9	Methyl Acetate	5	U	
75-09-2	Methylene chloride	5	U	
156-60-5		5	U	
<u> </u>	Methyl tert-butyl ether	5	υ	
75-34-3	1,1-Dichloroethane	5	U	
540-59-0		3		_
156-59-2		3	J	1
78-93-3		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	1
79-01-6	Trichloroethene	5	U	1
108-87-2	Methylcyclohexane	5	Ø	
78-87-5	1,2-Dichloropropane	5	U	
75-27-4	Bromodichloromethane	5	U	1
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-10-1	4-Methyl-2-pentanone	5	σ	
108-88-3		5	υ	
10061-02-6	trans-1,3-Dichloropropene	5	υ	
79-00-5		5	U	
127-18-4	Tetrachloroethene	2	J	
591-78-6	2-Hexanone	5	U	
124-48-1	Dibromochloromethane	5	Ũ	

OLM04.2

1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2

MW-1S-20160623

Lab Name:	PACE ANALY	Cont	ract:	
Lab Code:	10478	Case No.: AECOM-N S	AS No.:	SDG No.: AECOM260
Matrix: (so	il/water)	WATER	Lab Sample ID:	1606N78-002A
Sample wt/v	ol: <u>5</u>	(g/mL) ML	Lab File ID:	6\F79694.D
Level: (1	ow/med)	LOW	Date Received:	06/23/16
% Moisture:	not dec.		Date Analyzed:	06/24/16
GC Column:	DB-624	ID: 0.18 (mm)	Dilution Factor:	1.00
Soil Extrac	t Volume:	(علم)	Soil Aliquot Volu	(Tr) التا

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q	
106-93-4	1,2-Dibromoethane	5	U	
108-90-7	Chlorobenzene	5	U	
100-41-4	Ethylbenzere	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-Dibromc-3-chloropropane	5	U	
120-82-1	1,2,4-Trichlorobenzene	5	υ	

OLM04.2

AECOM260 S58 of 161

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	1 <i>F</i>		EPA SAMPLE NO.
	VOLATILE ORGANICS ANALYSIS DATA TENTATIVELY IDENTIFIED COMPOU		MW-1S-20160623
Lab Name: PACE ANALYI	Contr	act:	2
Lab Code: <u>10478</u>	Case No.: AECOM-N SAS No.:	SDG	No.: AECOM260
Matrix: (soil/water)	WATER	Lab Sample ID:	1606N78-002A
Sample wt/vol: 5	(g/mL) <u>ML</u>	Lab File ID:	6\F79694.D
Level: (low/med)	WC	Date Received:	06/23/16
% Moisture: not dec.		Date Analyzed:	06/24/16
GC Column: DB-624	ID: <u>0.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µl)	Scil Aliquot Volum	me: <u>0</u> (µL)
	CONCE	NTRATICN UNITS:	
Number TICs found:	1 (µg/L	or µg/Kg)	UG/L
CAS NUMBER	COMPOUND NAME	RT EST.	CONC. Q

2.02

1.007446-09-5

Sulfur dioxide

Le 8/22/16

OT.M04.2

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AECOM260 S59 of 161

1A		EPA SAMPLE NO.
VOLATILE ORGANICS ANALYSIS DATA	SHEET	тв
Lab Name: PACE ANALYTICAL Contra	.et:	3
Lab Code: 10478 Case No.: AECOM-N SAS	No.:	SDG No.: AECOM260
Matrix: (soil/water) WATER	Lab Sample ID:	1606N78-003A
Sample wt/vol: 5 (g/mL) ML	Lab File ID:	6\F79690.D
Level: (low/med) LOW	Date Received:	06/23/16
% Moisture: not dec.	Date Analyzed:	06/24/16
GC Column: DB-624 ID: 0.18 (mm)	Dilution Factor:	1.00
Soil Extract Volume: (µL)	Soil Aliquot Volu	me (µL)

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

CONCENTRATION UNITS:

FORM I VOA - 1

124-48-1 Dibromechloromethane

OLM04.2

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1B EPA SAMPLE NO. VOLATILE ORGANICS ANALYSIS DATA SHEET TBLab Name: PACE ANALYTICAL 3 Contract Lab Code: 10478 Case No.: AECOM-N SAS No.: SDG No.: AECOM260 Matrix: (soil/water) <u>WATER</u> Lab Sample ID: 1606N78-003A Sample wt/vol: 5 (g/mL) ML Lab File ID: 6\F79690.D Level: (low/med) LOW Date Received: 06/23/16 % Moisture: not dec. Date Analyzed: 06/24/16 GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00 (µL) Soil Aliquot Volume (µL) Soil Extract Volume:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
206-93-4	1,2-Dibromcethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	υ
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	Ŭ
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachlorcethane	5	τ
541-73-1	1,3-Dichlorobenzene	5	τ
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

OLM04.2

AECOM260 S61 of 161

1A

EPA SAMPLE NO.

1

VOLATILE ORGANICS ANALY	SIS DATA SHEET	STORAGE BLANK
Lab Name: PACE ANALYTICAL	Contract:	4
Lab Code: 10478 Case No.: AECO	DM-N SAS No.:	SDG No.: AECOM260
Matrix: (soil/water) WATER	Lab Sample ID:	1606N78-004A
Sample wt/vol: <u>5</u> (g/mL) <u>ML</u>	Lab File ID:	6\F79689.D
Level: (low/med) LOW	Date Received:	06/23/16
% Moisture: not dec.	Date Analyzed:	06/24/16
GC Column: DB-624 ID: 0.1	8 (mm) Dilution Factor:	1.00
Soil Extract Volume: (pL) Soil Aliquot Vol	ume (µL)

CONCENTRATION UNITS:

AS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q	
75-71-8	Dichlorodifluoromethane	5	υ	
74-87-3	Chloromethane	5	U	
75-01-4	Vinyl chloride	5	U	
74-83-9		5	18	
75-00-3	Chloroethane	5	U	
75-69-4	Trichlorofluoromethane	5	U	
75-35-4	1,1-Dichloroethere	5	U	
67-64-1	Acetone	5	V	
75-15-0	Carbon disulfide	5	U	
79-20-9	Methyl Acetate	5	U	
75-09-2	Methylene chloride	2	J	
156-60-5	trans-1,2-Dichloroethene	5	U	-2
1634-04-4	Methyl tert-butyl ether	5	U	2
75-34-3	1,1-Dichloroethane	5	U	
540-59-0	1,2-Dichloroethene (total)	5	U	1
156-59-2	cis-1,2-Dichloroethene	5	U	
78-93-3	2-Butanone	5	υ	
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	υ	
108-87-2	Methylcyclohexane	5	1	
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-Dichloropropere	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	-
127-18-4	Tetrachloroethene	5	υ	
591-78-6	2-Hexanone	5	U	
124-48-1	Dibromochloromethane	5	U	-

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New 812214

1B

Soil Extract Volume:

EPA SAMPLE NO.

4

VOLATILE ORGANICS ANALYSIS DATA	SHEET	STORAGE BLANK
Lab Name: PACE ANALYTICAL Contra	ct:	
Lab Code: 10478 Case No.: AECOM-N SAS	No.:	SDG No.: AECOM260
Matrix: (soil/water) WATER	Lab Sample ID:	1606N78-004A
Sample wt/vol: 5 (g/mL) <u>ML</u>	Lab File ID:	6\F79689.D
Level: (low/med) LOW	Date Received:	06/23/16
% Moisture: not dec.	Date Analyzed:	06/24/16
GC Column: DB-624 ID: 0.18 (mm)	Dilution Factor:	1.00

(µL) Soil Aliquot Volume (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	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	υ
79-34-5	1,1,2,2-Tetrachloroethane	5	υ
541-73-1	1,3-Dichlorobenzene	5	υ
106-46-7	1,4-Dichlorobenzene	5	υ
95-50-1	1,2-Dichlorobenzene	5	υ
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-11D-20160624
Lab Name: PACE ANALYTICAL Contra	act:	5
Lab Code: 10478 Case No.: AECOM-N SAS	No.:	SDG No.: AECOM260
Matrix: (soil/water) <u>WATER</u>	Lab Sample ID:	1606084-001A
Sample wt/vol: 5 (g/mL) ML	Lab File ID:	6\F79822.D
Level: (low/med) LOW	Date Received:	06/24/16
% Moisture: not dec.	Date Analyzed:	06/28/16
GC Column: <u>DB-624</u> ID: <u>0.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume: (µL)	Soil Aliquot Volu	me (lir)

CONCENTRATION UNITS:

AS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
75-71-8	Dichlorodifluoromethane	5	y
74-87-3	Chloromethanc	5	U
75-01-4	Vinyl chloride	5	U
74-83-9	Bromomethane	5	X
75-00-3	Chloroethane	5	V
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	3	J
67-64-1	Acetone	5	y
75-15-0	Carbon disulfide	5	U
79-20-9	Methyl Acetate	5	J.
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)	1	
156-59-2	cis-1,2-Dichloroethene	1	J
78-93-3	2-Butanone	5	υ
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	
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	· · · · ·	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	14	
591-78-6	2-Hexanone	5	υ
124-48-1	Dibromochloromethane	5	υ

OLMO4.2

1B

Soil Extract Volume:

EPA SAMPLE NO.

 VOLATILE ORGANICS ANALYSIS DATA SHEET
 MW-11D-20160624

 Lab Name:
 PACE ANALYTICAL
 Contract:
 5

 Lab Code:
 10478
 Case No.: AECOM-N SAS No.:
 SDG No.: AECOM260

 Matrix:
 (soil/water)
 WATER
 Lab Sample ID:
 1606084-001A

 Sample wt/vol:
 5
 (g/mL) ML
 Lab File ID:
 6\F79822.D

 Level:
 (low/med)
 LOW
 Date Received:
 06/24/16

 % Moisture: not dec.
 Date Analyzed:
 06/28/16

 GC Column:
 DB-624
 ID: 0.18 (mm)
 Dilution Factor:
 1.00

(µL) Soil Aliquot Volume (µL)

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	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	υ
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

FORM I VOA - 2

EPA SAMPLE NO. 1A VOLATILE ORGANICS ANALYSIS DATA SHEET MW-11S-20160624 Lab Name: PACE ANALYTICAL Contract: $\boldsymbol{\omega}$ Lab Code: 10478 Case No.: AECOM-N SAS No.: SDG No.: AECOM260 Matrix: (soil/water) WATER Lab Sample ID: 1606084-002A Sample wt/vol: <u>5</u> (g/mL) <u>ML</u> Lab File ID: <u>6\F79786.D</u> Level: (low/med) LOW Date Received: 06/24/16 Date Analyzed: 06/27/16 % Moisture: not dec. GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00 (pL) Soil Aliquot Volume (pL) Soil Extract Volume:

CONCENTRATION UNITS:

S NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
75-71-	-8 Dichlorodifluoromethane	5	U
74-87-	-3 Chloromethane	5	U
75-01-	4 Vinyl chloride	5	U
74-83-	9 Bromomethane	5	U
75-00-	-3 Chloroethane	5	Y
75-69-	-4 Trichlorofluoromethane	5	U
75-35-	4 1,1-Dichloroethene	5	U
67-64-		5	4
75-15-	-0 Carbon disulfide	5	U
79-20-	-9 Methyl Acetate	5	U
75-09-		5	U
156-60-		5	U
1634-04-		5	U
75-34-		5	U
540-59-	-0 1,2-Dichloroethene (total)	2	
156-59-		2	J
78-93-		5	U
67-66-	-3 Chloroform	5	U
71-55-	-6 1,1,1-Trichloroethane	5	U
110-82		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-		5	U
108-87	2 Methylcyclohexane	5	U
78-87		5	υ
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		5	U
10061-02	-6 trans-1,3-Dichloropropene	5	U
79-00		5	U
127-18		4	J
591-78	-6 2-Hexanone	5	U
24-48	-1 Dibromochloromethane	5	σ

1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-11S-20160624

Lab Name:	PACE ANALYI	Con Con	tract:		φ
Lab Code:	10478	Case No.: AECOM-N S	CAS No.:	SDG No.: AECOM260	
Matrix: (so	il/water)	WATER	Lab Sample ID:	1606084~002A	
Sample wt/v	ol: <u>5</u>	(g/mL) ML	Lab File ID:	6\F79786.D	
Level: (1	ow/med)	TOM	Date Received:	06/24/16	
<pre>% Moisture:</pre>	not dec.		Date Analyzed:	06/27/16	
GC Column:	DB-624	ID: 0.18 (mm)	Dilution Factor:	1.00	
Soil Extrac	t Volume:	(µL)	Soil Aliquot Vol	ume(µL)	

CONCENTRATION UNITS:

÷.

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	υ
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.

		ORGANICS ANALISIS DATA	SUFEI	MW-13D-20160624
Lab Name: 1	PACE ANALYI	Contra	ct:	7
Lab Code: 1	10478	Case No.: <u>AECOM-N</u> SAS	No.:	SDG No.: AECOM260
Matrix: (soi	l/water)	WATER	Lab Sample ID:	1606084-004A
Sample wt/vo	1: <u>5</u>	(g/mL) ML	Lab File ID:	6\F79787.D
Level: (lo	w/med)	TOM	Date Received:	06/24/16
<pre>% Moisture:</pre>	not dec.		Date Analyzed:	06/27/16
GC Column:	DB-624	ID: <u>0.18</u> (mm)	Dilution Factor:	1.00
Soil Extract	Volume:	(µL)	Soil Aliquot Volu	ume(µL)

CONCENTRATION UNITS:

S NO .	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
75-71-8	Dichlorodifluoromethane	5)	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	K
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	1	J
67-64-1	Acetone	5	X
75-15-0	Carbon disulfide	5	U
79-20-9	Methyl Acetate	5	U
75-09-2	Methylene chloride	5	υ
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	υ
75-34-3	1,1-Dichlorcethane	5	U
540-59-0	1,2-Dichloroethene (total)	1	
156-59-2	cis-1,2-Dichloroethene	1	J
78-93-3	2-Butanone	5	U
67-66-3	Chloroform	5	Ŭ
71-55-6	1,1,1-Trichloroethane	5	υ
110-82-7	Cyclohexane	5	ប
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	υ
75-27-4	Bromodichloromethane	5	υ
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	υ
_08-88-3	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	Ű

FORM I VOA - 1

1B EPA SAMPLE NO. VOLATILE ORGANICS ANALYSIS DATA SHEET MW-13D-20160624 Lab Name: PACE ANALYTICAL Contract: A Lab Code: 10478 Case No.: AECOM-N SAS No.: SDG No.: AECOM260 Matrix: (soil/water) WATER Lab Sample ID: 1606084-004A Sample wt/vol: <u>5</u> (g/mL) <u>ML</u> Lab File ID: 6\F79787.D Date Received: 06/24/16 Level: (low/med) LOW % Moisture: not dec. Date Analyzed: 06/27/16 GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00 (µL) Soil Aliquot Volume (µL) Soil Extract Volume:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
106-93-4	1,2-Dibromoethane	5	τ
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-Tetrachlorcethane	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

OLM04.2

NW 8122/16

1A EPA SAMPLE NO. VOLATILE ORGANICS ANALYSIS DATA SHEET MW-13S-20160624 8 Lab Name: PACE ANALYTICAL Contract: Lab Code: 10478 Case No.: AECOM-N SAS No.: SDG No.: AECOM260 Matrix: (soil/water) WATER Lab Sample ID: 1606084-005A Sample wt/vol: <u>5</u> (g/mL) <u>ML</u> Lab File ID: 6\F79788.D Date Received: 06/24/16 Level: (low/med) LOW % Moisture: not dec. Date Analyzed: 06/27/16 GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00 (µL) Soil Aliquot Volume (pL) Soil Extract Volume:

CONCENTRATION UNITS:

NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
75-71-8	Dichlorodifluoromethane	5	Ŭ
74-87-3	Chloromethane	5	U
75 01-4	Vinyl chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	Y
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	1	J
67-64-1	Acetone	5	Ø
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	υ
1634-04-4	Methyl tert-butyl other	5	υ
75-34-3	1,1-Dichloroethane	9	
540-59-0	1,2-Dichloroethene (total)	20	
156-59-2	cis-1,2-D_chloroethene	19	
78-93-3	2-Butanone	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	
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	6	
108-87-2	Methylcyclohexane	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	ט
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	υ
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichlcroethane	5	υ
127-18-4	Tetrachloroethene	10	
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U

1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-135-20160624

Lab Name:	PACE ANALYI	ICAL	Contract:			4
Lab Code:	10478	Case No.: AECOM-	N SAS No.:		SDG No.: 7	ECOM260
Matrix: (so	il/water)	WATER	Lab	Sample ID:	1606084-005	5A
Sample wt/v	ol: <u>5</u>	(g/mL) ML	Lab	File ID:	6\F79788.D	
Level: (1	ow/med)	LOW	Date	Received:	06/24/16	
<pre>% Moisture:</pre>	not dec.		Date	Analyzed:	06/27/16	
GC Column:	DB-624	ID: 0.18	(mm) Dilu	tion Factor:	1.00	
Soil Extrac	t Volume:	(عر)	Soil	Aliquot Volu	me	(µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	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 EPA SAMPLE NO. VOLATILE ORGANICS ANALYSIS DATA SHEET MW-53S-20160624 Lab Name: PACE ANALYTICAL Contract: a Lab Code: 10478 Case No.: AECOM-N SAS No.: SDG No.: AECOM260 Matrix: (soil/water) WATER Lab Sample ID: <u>1606084-006A</u> Sample wt/vol: <u>5</u> (g/mL) <u>ML</u> Lab File ID: 6\F79789.D Level: (low/med) LOW Date Received: 06/24/16 % Moisture: not dec. Date Analyzed: 06/27/16 GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00 (µL) Soil Aliquot Volume (µL) Soil Extract Volume:

CONCENTRATION UNITS:

AS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
75-71-	8 Dichlorodifluoromethane	5	U
74-87-	3 Chloromethane	5	U
75-01-	4 Vinyl chloride	5	U
74-83-	9 Bromomethane	5	U
75-00-	3 Chloroethane	5	1
75-69-	4 Trichlorofluoromethane	5	U
75-35-	4 1,1-Dichloroethene	1	J
67-64-	1 Acetone	5	X
75-15-	0 Carbon disulfide	5	U
79-20-	9 Methyl Acetate	5	U
75-09-	2 Methylene chloride	5	U
156-60-		5	U
1634-04-		5	υ
75-34-		9	
540-59-		19	
156-59-		13	
78-93-		5	U
67-66-	3 Chloroform	5	U
71-55-	6 1,1,1-Trichloroethane	4	J
110-82-		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	
108-87-	2 Methylcyclohexane	5	U
78-87-		5	U
75-27-		5	U
10061-01-	5 cis-1,3-Dichloropropene	5	U
108-10-		5	U
108-88-		5	U
10061-02-	6 trans-1,3-Dichloropropene	5	U
79-00-		5	U
127-18-		10	
591-78-		5	U
124-48-	1 Dibromochloromethane	5	U

FORM I VOA - 1

OLM04.2

NW 8/22/14

AECOM260 S78 of 161

EPA SAMPLE NO. 1B VOLATILE ORGANICS ANALYSIS DATA SHEET MW-538-20160624 Lab Name: PACE ANALYTICAL Contract: 9 Lab Code; 10478 Case No.: AECOM-N SAS No.: SDG No.: AECOM260 Matrix: (soil/water) WATER Lab Sample ID: 1606084-006A Sample wt/vol: 5 (g/mL) ML Lab File ID: <u>6\F79789.D</u> Level: (low/med) LOW Date Received: 06/24/16 Date Analyzed: 06/27/16 % Moisture: not dec. GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00 (µL) Soil Aliquot Volume (µL) Soil Extract Volume:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	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	υ
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	υ

OLM04.2

AECOM260 S79 of 161

New 8/22/16

EPA SAMPLE NO: 1A VOLATILE ORGANICS ANALYSIS DATA SHEET NC-12-20160624 Lab Name: PACE ANALYTICAL Contract: 10 Lab Code: 10478 Case No.: AECOM-N SAS No.: SDG No.: AECOM260 Matrix: (soil/water) WATER Lab Sample ID: 1606084-007A Sample wt/vol: 5 (g/mL) ML Lab File ID: <u>6\F79790.D</u> Level: (low/med) LOW Date Received: 06/24/16 % Moisture: not dec. Date Analyzed: 06/27/16 GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00 (µL) Soil Aliquot Volume (µL) Soil Extract Volume:

CONCENTRATION UNITS:

NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
75-71-8	Dichlorodiflucromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	Y
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	X
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 (tctal)	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
/8-87-5	1,2-Dichloropropane	5	υ
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropere	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropere	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

FORM I VOA - 1

OLM04.2

NU 812211p

EPA SAMPLE NO.

NC-12-20160624

Lab Name: PACE ANALY	TICAL Contr	act:		10
Lab Code: <u>10478</u>	Case No.: AECOM-N SAS	5 No.:	SDG No.: AECOM260	
Matrix: (soil/water)	WATER	Lab Sample ID:	1606084-007A	
Sample wt/vol: 5	(g/mL) <u>ML</u>	Lab File ID:	6\F79790.D	
Level: (low/med)	LOW	Date Received:	06/24/16	
% Moisture: not dec.		Date Analyzed:	06/27/16	
GC Column: DB-624	ID: 0.18 (mm)	Dilution Factor:	1.00	
Soil Extract Volume:	(µL)	Soil Aliquot Vol	Time (hr)	

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	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	Isopropylbenzere	5	υ
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	υ
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

FORM I VOA - 2 MU 8/ CZ/16 OLM04.2

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1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

1A EPA SAMPLE NO. VOLATILE ORGANICS ANALYSIS DATA SHEET TB-20160624 Lab Name: PACE ANALYTICAL Contract: 11 Lab Code: 10478 Case No.: AECOM-N SAS No.: SDG No.: AECOM260 Matrix: (soil/water) WATER Lab Sample ID: <u>1606084-008A</u> Sample wt/vol: <u>5</u> (g/mL) ML Lab File ID: <u>6\F79771.D</u> Level: (low/med) LOW Date Received: 06/24/16 Date Analyzed: 06/27/16 % Moisture: not dec. GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00 (µL) Soil Aliquot Volume (µL) Soil Extract Volume:

		CONCENTRATION UNITS:	8
S NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethanc	5	U
75-01-4	Vinyl chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	J.
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	1
75-15-0	Carbon disulfide	5	U
79-20-9	Methyl Acetate		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	υ
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	υ
79-01-6	Trichloroethene	5	Ŭ
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	ΰ
127-18-4	Tetrachloroethene	5	υ
	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U

FORM I VOA 📃 1

OLM04.2

NW 8122116

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1в

EPA SAMPLE NO.

TB-20160624

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	PACE ANALY	FICAL Contra	.ct:		1
Lab Code:	10478	Case No.: AECOM-N SAS	No.:	SDG No.: AECOM260	
Matrix: (so	il/water)	WATER	Lab Sample ID:	1606084-008A	
Sample wt/v	ol: <u>5</u>	(g/mL) ML	Lab File ID:	6\F79771.D	
Level: (1	ow/med)	TOM	Date Received:	06/24/16	
% Moisture:	not dec.		Date Analyzed:	06/27/16	
GC Column:	DB-624	ID: 0.18 (mm)	Dilution Factor:	1.00	
Soil Extrac	t Volume:	(µL)	Soil Aliquot Volu	ume (µL)	

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	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 1	U	

1A EPA SAMPLE NO. VOLATILE ORGANICS ANALYSIS DATA SHEET MW-12D-20160627 Lab Name: PACE ANALYTICAL Contract: 12 Lab Code: 10478 Case No.: AECOM-N SAS No.: _____ SDG No.: AECOM260 Matrix: (soil/water) WATER Lab Sample ID: 1606Q47-001A Sample wt/vol: 5 (g/mL) <u>ML</u> Lab File ID: <u>6\F79829.D</u> Level: (low/med) LOW Date Received: 06/27/16 % Moisture: not dec. Date Analyzed: 06/28/16 ID: 0.18 (mm) Dilution Factor: 1.00 GC Column: DB-624 (µL) Soil Aliquot Volume (pL) Soil Extract Volume:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
75-71	-8 Dichlorodifluoromethane	5	¥
74-87	-3 Chloromethane	5	U
75-01-	-4 Vinyl chloride	5	U
74-83		5	y
75-00	-3 Chloroethane	5	18
75-69	-4 Trichlorofluoromethane	5	U
75-35	-4 1,1-Dichloroethene	2	J
67-64		5	X
75-15	-0 Carbon disulfide	5	U
79-20	-9 Methyl Acetate	5	V
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	υ
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	υ
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 Totrachloroethene	2	J
591-78	-6 2-Hexanone	5	U
124-48	-1 Dibromochloromethane	5	U

OLM04.2

New 8122116

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	18		EPA SAMPLE NO.
VOLATILE	ORGANICS ANALYSIS DATA S	SHEET	MW-12D-20160627
Lab Name: PACE ANALYT	ICAL Contrac	et:	12
Lab Code: <u>10478</u>	Case No.: AECOM-N SAS	No.:	SDG No.: AECOM260
Matrix: (soil/water)	WATER	Lab Sample ID:	1606Q47-001A
Sample wt/vol: 5	(g/mL) <u>ML</u>	Lab File ID:	6\F79829.D
Level: (low/med)	LOW	Date Received:	06/27/16
% Moisture: not dec.		Date Analyzed:	06/28/16
GC Column: DB-624	ID: 0.18 (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Volu	me (µL)

CONCENTRATION UNITS:

CAS NO .	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	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	

FORM I VOA - 2 Mu 8/22/14

OLM04.2

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	1A		EPA SAMPLE NO.	
VOLATILE ORGAN	NICS ANALYSIS DATA	SHEET	MW-12S-20160627	
Lab Name: PACE ANALYTICAL	Contra	ct:		13
Lab Code: 10478 Case	No.: <u>AECOM-N</u> SAS	No.:	SDG No.: AECOM260	
Matrix: (soil/water) W2	TER	Lab Sample ID:	1606Q47-002A	
Sample wt/vol: 5	(g/mL) <u>ML</u>	Lab File ID:	6\F79830.D	(90)
Level: (low/med) LOW		Date Received:	06/27/16	
% Moisture: not dec.		Date Analyzed:	06/28/16	
GC Column: DB-624	ID: 0.18 (mm)	Dilution Factor:	1.00	
Soil Extract Volume:	(µL)	Soil Aliquot Volu	(JL)	

CONCENTRATION UNITS

S NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
75-71-8	Dichlorcdifluorcmethane	5	X
74-87-3	Chlcromethane	5	U
75-01-4	Vinyl chloride	5	U
74-83-9	Bromomethane	5	×
75-00-3	Chloroethane	5	y
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-3	Acetone	5	X
75-15-0) Carbon disulfide	5	U
79-20-	Methyl Acetate	5	Ø
75-09-2		5	U
156-60-	trans-1,2-Dichloroethene	5	U
1634-04-	Methyl tert-bulyl ether	5	U
75-34-3	3 1,1-Dichloroethane	5	U
540-59-) 1,2-Dichloroethene (total)	5	υ
156-59-3	cis-1,2-Dichloroethene	5	U
78-93-	3 2-Butanone	5	U
67-66-	3 Chloroform	5	U
71-55-	5 1,1,1-Trichloroethane	5	U
110-82-	7 Cyclohexane	5	υ
56-23-	5 Carbon tetrachloride	5	U
71-43-	2 Benzene	5	U
107-06-	2 1,2-Dichloroethane	5	υ
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-	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-		5	U
591-78-	6 2-Hexanone	5	U
124-48-	1 Dibromochloromethane	5	U

OLM04.2

FORM I VOA - 1 Aur 8/22/14

EPA SAMPLE NO. 1B VOLATILE ORGANICS ANALYSIS DATA SHEET MW-12S-20160627 Contract: 13 Lab Name: PACE ANALYTICAL Lab Code: 10478 Case No.: AECOM-N SAS No.: SDG No.: AECOM260 Matrix: (soil/water) WATER Lab Sample ID: 1606Q47-002A Sample wt/vol: <u>5</u> (g/mL) <u>ML</u> Lab File ID: 6\F79830.D Date Received: 06/27/16 Level: (low/med) LOW % Moisture: not dec. Date Analyzed: 06/28/16 GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00 (µL) Soil Aliquot Volume (µL) Soil Extract Volume:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q	
106-93-4	1,2-Dibrcmoethane	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	υ	
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-Dichlcrobenzene	5	U	
106-46-7	1,4-Dichlcrcbenzene	5	U	
95-50-1	1,2-Dichlcrcbenzene	5	U	
96-12-8	1,2-Dibromo-3-chlorepropane	5	U	
120-82-1	1,2,4-Trichlorobenzene	5	U	

FORM I VOA - 2

OLM04.2

NW 8/22/14

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			1A			EPA SAMPL	E NO.
	VOLATILE	ORGANICS	ANALYSIS	DATA	SHEET	тв-2016062	7
Lab Name: 1	PACE ANALYT	ICAL	с	ontra	ct:		14
Lab Code: 1	.0478	Case No.:	AECOM-N	SAS	No.:	SDG No.: A	COM260
Matrix: (soi	l/water)	WATER			Lab Sample ID:	1606Q47-0032	<u>A</u>
Sample wt/vo	1: <u>5</u>	(g/m	L) <u>ML</u>		Lab File ID:	6\F79828.D	
Level: (lo	w/med)	TOM			Date Received:	06/27/16	
<pre>% Moisture:</pre>	not dec.				Date Analyzed:	06/28/16	
GC Column:	DB-624	I	D: 0.18 (I	nm)	Dilution Factor:	1.00	
Soil Extract	Volume:		(µL)		Soil Aliquot Volu	ime	(pL)

CONCENTRATION UNITS:

NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
75-71-8	Dichlorodifluoromethane	5	Y
74-87-3	Chloromethane	5	U
75-01-4	Vinyl chloride	5	U
74-83-9	Bromomethane	5	7
75-00-3	Chloroethane	5	y
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	V
75-15-0	Carbon disultide	5	U
79-20-9	Methyl Acetate	5	X
75-09-2	Methylene chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl cthor	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 1	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	υ
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-Hexanonc	5	U
124 - 48 - 1	Dibromochloromethane	5	U

FORM I VOA - 1

OLM04.2

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18		EPA SAMPLE NO.
VOLATILE ORGANICS ANALYSIS DATA	SHEET	TB-20160627
Lab Name: PACE ANALYTICAL Contr	act:	14
Lab Code: 10478 Case No.: AECOM-N SAS	3 No.:	SDG No.: AECOM260
Matrix: (soil/water) WATER	Lab Sample ID:	1606Q47-003A
Sample wt/vol: <u>5</u> (g/mL) <u>ML</u>	Lab File ID:	6\F79828.D
Level: (low/med) LOW	Date Received:	06/27/16
8 Moisture: not dec.	Date Analyzed:	06/28/16
GC Column: <u>DB-624</u> ID: <u>0.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume: (µL)	Soil Aliquot Volu	ume (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	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	υ
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

OLM04.2

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