



New York State Department of Environmental  
Conservation – Division of Environmental  
Remediation

## **PERIODIC REVIEW REPORT**

Vestal Water Supply Site

Site Number 7-04-009A

August 2017

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Site Number 7-04-009A

Prepared for:

New York State Department of  
Environmental Conservation

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## 1 EXECUTIVE SUMMARY

The New York State Department of Environmental Conservation (NYSDEC) issued a Work Assignment (#D007618-07) to Arcadis CE, Inc. (Arcadis) for operation, maintenance, monitoring, and remedial system optimization (RSO) evaluation at the Vestal Water Supply Site (NYSDEC site Number 7-04-009A) in New York State (the Site). This Periodic Review Report (PRR) documents the findings and observations associated with the monitoring program and RSO for the site since the publication of the previous PRR in 2009. The Vestal Water Supply Site is located along the southern bank of the Susquehanna River on Pumphouse Road in the Town of Vestal, Broome County, New York.

The Town of Vestal Water Supply system originally included Wells 1-1, 1-2 (now 1-2A), and 1-3. Well 1-1 was taken off line in 1980 upon the discovery of chlorinated VOCs in the extracted water. The Site was subsequently placed on the National Priorities List in 1982. A Record of Decision (ROD) for the site (designated as Operable Unit 1 (OU-1)) was signed by the United States Environmental Protection Agency (USEPA) in June 1986. The remedy prescribed in the ROD included the following:

- Restoration of water supply capacity to the level that existed before the loss of Well 1-1;
- Provision of a water supply that provided a high level of public health protection by exceeding requirements for drinking water quality; and
- Hydraulic containment of the chlorinated VOC plume by pumping Well 1-1 (later Well 1-1A) and treating the water before discharge to the Susquehanna River.

Until 1980, Well 1-1 was the main source of water for Water District 1, which provides drinking water for several areas of the Town of Vestal. Currently, two production wells, Wells 1-2A and 1-3 function as the main source of water for Water District 1. Well 1-1A was installed as a replacement for Well 1-1 in 1993 due to mechanical problems with Well 1-1. Well 1-1A was fully activated in 1995 for remedial purposes, and operated until February 2014, when it was shut down as part the RSO evaluation. The RSO subsequently determined that the continued operation of the groundwater extraction and treatment facility was not an effective remedy to site cleanup and that other measures should be utilized for the long-term protection of the Vestal Public Water Supply. A Focused Feasibility Study (FFS) (Arcadis 2015) was prepared for OU-1 upon the completion of the RSO. The FFS was submitted to the NYSDEC and, subsequently, the USEPA.

Site activities currently include monthly pre-treatment sampling for the Town of Vestal water supply wells 1-2A and 1-3 and quarterly groundwater sampling from the new and existing monitoring wells.

## 2 SITE OVERVIEW

### 2.1 Location and Features

The Vestal Water Supply (Site 1-1) Site is located north of New York State Route 17 on Pumphouse Road, Vestal, Broome County, New York, along the southern bank of the Susquehanna River (Figure 2-1). Well 1-1A is located just south of the Susquehanna River and approximately one-quarter mile northwest of the Stage Road Industrial Park and approximately one-quarter mile east of the Town of Vestal water supply wells (Well 1-2A and 1-3).

### 2.2 Site History and Remediation

Until 1980, Well 1-1 was the main source of water for Water District 1, which provides drinking water for several areas of the Town of Vestal. Currently, two production wells, Wells 1-2A and 1-3 function as the main source of water for Water District 1. Based on elevated concentrations of VOCs, Well 1-1 was taken out of service and pumped to the Susquehanna River. The site was added to the National Priorities List (NPL) in 1983 (USEPA 2016).

#### 2.2.1 Operable Unit 1

In 1985, the NYSDEC began Remedial Investigation/Feasibility Study (RI/FS) for Operable Unit (OU) -1. Based on the results of the investigation, the United States Environmental Protection Agency (USEPA) issued a Record of Decision (ROD) for OU-1 on June 27, 1986. The remedy prescribed in the OU-1 ROD called for the following actions:

- Construction of a packed column air stripper on Well 1-1 to enable the following:
  - Restore the water supply capacity to the level that existed before the loss of Well 1-1;
  - Provide a water supply that has a high level of public health protection by exceeding requirements for drinking water quality;
  - Provide hydraulic containment of the chlorinated VOC plume; and
  - Cease untreated discharges from Well 1-1 to the Susquehanna River.
- Implement a supplemental RI/FS to investigate the extent of contamination in the suspected source areas and evaluate possible source control measures.

An air stripping facility was constructed for Well 1-1 by the USEPA in 1991 pursuant to the OU-1 ROD. Due to production problems with Well 1-1, Well 1-1A was installed in 1993 to replace Well 1-1.

In March 1995, the USEPA issued a Remedial Action Report that indicated the Well 1-1A and the treatment plant were fully functional and operational as a potable water supply.

In May 1995, the Town of Vestal informed the USEPA that it no longer required the water from Well 1-1A for its water supply.

The USEPA operated the treatment plant for a period of ten years. Then, in 2006, the NYSDEC assumed responsibility for the operation and maintenance (O&M) and monitoring of the OU-1 remedy.

In 2014, the NYSDEC performed a Remedial System Optimization (RSO) to evaluate the OU-1 remedy. Seven soil borings and 13 new permanent monitoring wells were installed to provide additional information to delineate the horizontal and vertical extent of groundwater contamination resulting from the source area (OU-2). In addition, the groundwater treatment facility for Well 1-1A was shut down on February 28, 2014 as part of the RSO to evaluate the impacts to groundwater quality while the treatment plant was not operating.

The data from the RSO were used to prepare a Focused Feasibility Study (FFS) for OU-1. The FFS was prepared to assess the efficiency of the OU-1 remedy and evaluate potential alternative remedial approaches. Based on the FFS, if a source area (OU-2) remedy were implemented, downgradient cleanup of groundwater (OU-1) would likely be achievable with less than five years. The FFS also indicated that if a source area remedy was not implemented, the remedial duration for OU-1 would continue significantly longer than 30 years (Arcadis 2015).

The Well 1-1A treatment plant remains off-line. Quarterly groundwater monitoring is being performed to assess impacts to groundwater quality while the treatment plant is not operating. In particular, plume migration is being monitored to assess the effects of groundwater withdrawals from the Town of Vestal water supply wells 1-2A and 1-3 on the groundwater VOC plume distribution and migration.

## **2.2.2 Operable Unit 2**

A second Operable Unit, OU-2, was created for the groundwater plume source, which is located in the adjacent Stage Road Industrial Park. The source area was contaminated with chlorinated solvents (primarily TCE, 1,1,1-TCA and their associated daughter compounds) and petroleum related VOCs through historical site operations. Multiple soil and groundwater investigations were completed to determine the nature and extent of contamination. The previous investigations have identified three suspected release areas at the Site. The OU-2 ROD was signed on September 28, 1990, selecting in-situ vacuum extraction as the remedy for two discrete areas of contaminated soil (Area 2 and Area 4), which are thought to be the predominant sources of contamination for Well 1-1A. A soil vapor extraction (SVE) system was operated in Area 2 from January 1997 to November 2000. In November 2000, results of the Interim Soil Sampling Program confirmed that the SVE system achieved ROD cleanup goals and the system was terminated. A SVE system also operated for approximately three years in Area 4, beginning in June 2003. However, the USEPA subsequently determined that the existing SVE system would not be able to address the remaining contamination in Area 4 (USEPA, 2016).

Between 2006 and 2010 USEPA performed additional investigations in the OU-2 source areas by drilling approximately 127 soil borings and installing 25 groundwater monitoring wells. Based on their investigations, an area of subsurface contamination remains along the south side of the building and extends beneath the building footprint. In addition, a source of petroleum-related contamination was identified in the northeast corner of the building (Lockheed Martin, 2012).

In September 2016, the USEPA issued an Amendment to the OU-2 ROD to address soil contamination remaining in Areas 3 and 4. The OU-2 ROD Amendment calls for in-situ thermal treatment of soil contaminated with VOCs in Area 3 and Area 4; excavation of and off-site disposal of soil contaminated with polychlorinated biphenyls (PCBs) in Area 3; and Institutional Controls (IC) to, at minimum, restrict property use to commercial/light industrial (USEPA, 2016).

### 3 REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

The goal of the OU-1 remedy was to:

- Restore the water supply capacity to the level that existed before the loss of Well 1-1;
- Provide a water supply that exceeds requirements for drinking water quality;
- Provide hydraulic containment of the chlorinated VOC plume; and
- Prevent untreated discharges from Well 1-1 to the Susquehanna River.

The selected remedy for OU-1 was implemented in accordance with the ROD. A packed column air stripper tower was installed to treat groundwater extracted from Well 1-1 (later Well 1-1A). The system extracted and treated groundwater until 2014, when it was shut down as part of the RSO evaluation. On February 29, 2014, the groundwater treatment facility for Well 1-1A was shut down as part of the RSO to evaluate the impacts to groundwater quality while the treatment plant was not operating. Based on O&M and treatment system sample data (discussed further in Sections 4 and 5), the packed column air stripper tower became fouled with calcium carbonate and could no longer treat groundwater extracted from Well 1-1A to the applicable NYSDEC Class GA discharge standards. In addition, the yield from Well 1-1A continued to decline over time, despite routine well redevelopment.

Groundwater samples are currently collected on a quarterly basis to assess the effects of groundwater withdrawals from the Town of Vestal water supply wells 1-2A and 1-3 on the groundwater plume distribution and migration. Based on the horizontal and vertical distribution of VOCs, it appears that the long-term pumping at extraction Well 1-1 and replacement Well 1-1A has caused the plume to migrate vertically from the water table near the source area to depths greater than 100 feet bgs, and horizontally approximately 2,000 feet to the west toward the extraction well. However, based on data collected since 2014, the extent of the plume has generally not changed following the shutdown of the Well 1-1A treatment plant.

Pre-treatment samples have been collected from Town of Vestal Wells 1-2A and 1-3 on a monthly basis as part of the RSO since 2014. None of the sample have contained detectable levels of VOCs since the RSO evaluation has been implemented. Therefore, even with no hydraulic control from Well 1-1A, VOCs have not been detected in water withdrawn from Well 1-2A and Well 1-3.

Based on the results of the RSO, and since the Well 1-1A treatment plant is no longer operational, the remedy specified in the ROD has not been performing as it was intended as the operation of Well 1-1A resulted in horizontal and vertical migration of the VOC plume and, by itself, will not result in the achievement of groundwater standards in the foreseeable future. However, as discussed herein, quarterly groundwater monitoring data indicate that there is little change in the shallow, intermediate, and deep groundwater plume distribution and migration since the shutdown of the Well 1-1A groundwater treatment system. In addition, none of the wells located between the historical distribution of the VOC plume and the town well field indicate the plume is migrating toward the wells. No VOCs have been detected in the Town of Vestal wells 1-2 and 1-3 to date.



## 4 OPERATION, MAINTENANCE, AND MONITORING

From 2007 to present, site operations have been performed by Arcadis on behalf of the NYSDEC. As presented in quarterly O&M Reports submitted to the NYSDEC, the Well 1-1A groundwater extraction and treatment system operated continuously from 2007 until its shutdown in February 2014, except for minor shutdowns for routine maintenance, power outages, and/or system upgrades.

The O&M program included the operation and maintenance of the Well 1-1A treatment plant in accordance with the Final Operation and Maintenance Manual, Long-Term Response, Operable Unit 1, Vestal Well 1-1 Site, Vestal, New York, (Tetra Tech EC, Inc. 2006) (O&M Manual). The O&M program also included monthly influent/effluent sampling and analysis of the Well 1-1A treatment system for Target Compound List (TCL) VOCs.

A summary of O&M activities completed at the Well 1-1A treatment plant since the last PRR (2009) is provided below.

### 4.1 2010 OM&M

Significant scaling was observed in the effluent discharge pipe that conveyed water from the clear well to the NYSDEC Flood Management Area (FMA). A pipe evaluation using video observation was performed on March 15, 2010. The assessment indicated that precipitate formation in the clear well discharge lines could limit the groundwater extraction and treatment rate to less than what was required.

The groundwater treatment system stopped operating on June 7, 2010 due to a “Ground Fault” error with the variable frequency drive (VFD) that controlled the pump. Diagnostic testing found that the ground fault error was caused by a faulty pump motor. Subsurface Technologies, Inc. (Subsurface Tech) conducted well development and installed a new pump motor in Well 1-1A during the week of August 16, 2010. The groundwater treatment system resumed operation on August 20, 2010. The flow rate from Well 1-1A following repair and development was approximately 400 gallons per minute (gpm). Based on an evaluation of flow measurements collected during the post-development pumping test, it was found that the digital flow meter for Well 1-1A was under-reporting flow rates by approximately 150 gpm.

### 4.2 2011 OM&M

No significant repairs or non-routine maintenance items were performed in 2011. The flow rate from Well 1-1A declined from approximately 315 gpm in January 2011 to approximately 200 gpm in December 2011. Due to continued reductions in well performance from Well 1-1A, Subsurface Tech AquaGard® well maintenance activities were recommended to be performed quarterly, although effectiveness of this treatment was thought to be diminishing based on previous treatments.

In October 2011, Arcadis provided NYSDEC an Engineers Estimate for replacement of the discharge pipe from the clear well to the NYSDEC FMA. The estimate included costs to replace the existing cast iron pipe with a 12-inch, high density polyethylene (HDPE) pipe.

### 4.3 2012 OM&M

In June 2012, Well 1-1A was re-developed again by Subsurface Tech, however post-development yield from Well 1-1A did not significantly improve following development.

A temporary circular weir orifice (orifice) was installed in the discharge outlet for the Well 1-1A treatment plant on July 18, 2012. This provided a means to estimate flow through the treatment plant, because the digital flow meter was no longer accurate.

### 4.4 2013 OM&M

At the request of USEPA, the VOC analyte list for operational monitoring was expanded in June 2013 to include 1,2,4 trimethylbenzene, 1,3,5 trimethylbenzene, and methyl tert-butyl ether (MTBE).

In May of 2013 a new well pump and motor assembly were installed following a mechanical failure of the existing pump due to a build-up of manganese deposits. The new pump and motor sizes were selected based on a review of 2009 through 2012 post-development step-rate pump test data. Based on these data, the maximum sustainable pumping rate for Well 1-1A was approximately 500 gpm. Therefore, a well pump was selected with a maximum pumping rate of approximately 550 gpm.

The clear well for the air stripper was visually inspected on July 22, 2013. The inspection was performed due to a suspected obstruction in the outlet pipe for the air stripper clear well. The suspected obstruction was identified during the May 2013 step-rate pumping test when Well 1-1A was being pumped at a rate of approximately 550 gpm. At this rate, it was observed that the water level in the clear well was near to overflowing onto the floor of the treatment system building. Inspection of the clear well revealed significant calcium carbonate precipitate in the clear well and an obstruction in the 12" outlet pipe for the clear well. The obstruction was removed; however, following removal of the obstruction, precipitate was observed coating the wetted perimeter of the discharge pipe. The maximum thickness of precipitate was approximately one inch.

It was noted in the Fourth Quarter 2013 report that increased concentrations of VOCs detected in post-treatment effluent samples from the Well 1-1A treatment plant indicated that the air stripper may no longer be capable of meeting the design criteria of removing VOCs to concentrations less than Class GA Standards.

### 4.5 2014 OM&M

In January and February 2014, post-treatment effluent samples from the Well 1-1A treatment plant confirmed that the air stripper was no longer capable of removing VOCs to concentrations less than Class GA Standards. Well 1-1A was shut down on February 29, 2014 to support the RSO evaluation. Discussion of the RSO is provided in Section 5.

The Well 1-1A air stripper was inspected on March 21, 2014 by removing the inspection cover for the air stripper tower packing media. During the inspection, significant calcium carbonate precipitate was observed in the tower and on the packing media. It was determined that the air stripper would require cleaning and/or replacement of the tower packing media before the system could be returned to service.

## 4.6 2015 Through Present OM&M

The only routine O&M performed at the Well 1-1A treatment plant between 2015 and present has been grounds maintenance, including mowing the lawn around the treatment system buildings.

In June 2016, at the request of NYSDEC Division of Water, Arcadis abandoned an 8-inch iron discharge pipe that formerly served as a blow-off and bypass line so that water from the Well 1-1A pump house or treatment plant could bypass the NYSDEC FMA and be discharged directly to the Susquehanna River.

The blow-off pipe passed through the flood control levee that forms the southern bank of the Susquehanna River where the treatment plant was built. The levee is regulated by the NYSDEC Region 7 Division of Water and United States Army Corps of Engineers (USACE). The pipe then extended down the levee embankment to the bed of the Susquehanna River. Since the discharge pipe was no longer used for treatment plant operations, it was abandoned and grouted in place. Above-grade piping that extended from the levee headwall down the levee embankment to the Susquehanna River, was also removed and disposed. The work was completed in accordance with a NYSDEC-approved Work Plan.

## 5 REMEDIAL SYSTEM OPTIMIZATION (RSO)

The RSO evaluation is being conducted in accordance with the NYSDEC- and USEPA-approved Remedial System Optimization Work Plan (Arcadis 2012). The objective of the RSO is to assess the accuracy of the Conceptual Site Model (CSM) upon which the remedy is based, document the performance of the current remedy, provide a summary of progress toward the cleanup goals, and provide recommendations for improvements, if required. As part of the RSO, the Well 1-1A groundwater treatment plant was shut down on February 28, 2014 to evaluate the impacts to groundwater flow direction and quality while the treatment system was not operating. The effects, if any, of groundwater withdrawals from the Town of Vestal water supply wells 1-2A and 1-3 on the existing groundwater plume distribution and migration in the absence of Well 1-1A pumping is also being monitored. Additional groundwater monitoring wells were installed and added to the quarterly RSO monitoring program to further evaluate the horizontal and vertical distribution of VOCs in the area of the site over time. The elements and results of RSO are discussed in the following sections.

### 5.1 Monitoring Well Installation

Thirteen new individual and nested wells were installed for the RSO. Four sets of nested wells were installed: 4009-23 (shallow and deep); 4009-25 (shallow and deep); 4009-27 (shallow, intermediate and deep); and 4009-29 (shallow, intermediate and deep). Monitoring wells 4009-24, 4009-26, and 4009-28 were installed as individual shallow wells. The locations of the new monitoring wells are shown on Figure 5-1, along with the locations of all current site monitoring wells. A well construction summary is provided as Table 5-1. The final depths of monitoring wells were dependent on the targeted hydrostratigraphic unit. In general, shallow wells were screened to intercept the water table or targeted higher permeability units near the water table. Intermediate wells were generally screened in higher permeability fluvial deposits, and deep wells were screened in high permeability sediments directly above the contact with the underlying glacial till unit.

#### 5.1.1 Hydraulic Conductivity Testing

Slug tests were performed on each of the 13 new monitoring wells on February 4 and 5, 2014. Results of the slug tests were used to evaluate hydrogeologic properties at and support findings for the RSO.

### 5.2 Baseline Groundwater Sampling

On February 20, 2014 baseline groundwater samples were collected using PDBs that were deployed on February 6, 2014. PDBs were deployed in 21 existing and 13 newly installed monitoring wells. Results for VOCs from the baseline sampling event were reported in the First Quarter 2014 RSO Report (Arcadis, August 2014).

### 5.3 Quarterly Groundwater Sampling

Groundwater sampling is being conducted on a quarterly bases to provide information on groundwater quality, monitor potential contaminant migration in the groundwater, and assess hydrogeologic site conditions, including groundwater flow direction. Groundwater monitoring well locations are shown on

Figure 5-1. The most recent sampling event, the 2<sup>nd</sup> Quarter 2017 Sampling Event, was performed in June 2017; however, data from the June 2017 sampling event was not yet available at the time of this report.

### 5.3.1 Water Level Survey

Water levels were measured to the nearest hundredth of a foot during each groundwater monitoring event. Groundwater levels were used to calculate groundwater elevations and assess groundwater flow conditions across the site. Quarterly water level data collected to date indicate that there is little change in the shallow, intermediate, and deep groundwater plume distribution since the shutdown of the Well 1-1A groundwater treatment plant.

### 5.3.2 Groundwater Sampling

Monitoring wells were selected to focus on plume migration and distribution on the north side of NYS Route 17 including wells surrounding the Town of Vestal water supply wells 1-2A and 1-3 and Well 1-1. (Figure 5-1). Groundwater samples were during each quarterly monitoring event using passive diffusion bags (PDBs) in accordance with the RSO Work Plan and were submitted for analysis of TCL VOCs by USEPA Method 8260 to TestAmerica-Buffalo following chain-of-custody sample handling procedures.

## 5.4 Groundwater Flow Evaluation

As mentioned above, Well 1-1A was shut down in February 2014 to evaluate hydraulic effects and potential water quality impacts to the Town of Vestal wells 1-2 and 1-3 in support of the remedial alternative development and analysis presented herein, Groundwater levels were measured on February 19, 2014 (while Well 1-1A was operating) and on March 17, 2014 following the prescribed shutdown of the Well 1-1A treatment facility. Groundwater levels have been measured quarterly since then; with the most recent measurements obtained in June 2017. Figures 5-2, 5-3, and 5-4, present select pre- and post- shut down groundwater elevations were used to construct composite groundwater elevation maps for three time periods:

- Figure 5-2: February 19, 2014: prior to Well 1-1A system shut down
- Figure 5-3: November 24, 2014: approximately 9 months post shut down
- Figure 5-4: April 1, 2015: approximately 14 months post shut down

These maps were developed using the deep groundwater zone water levels, but were augmented with shallow and intermediate well measurements in the on-site and other areas where the glaciofluvial sediments are thinner. As shown in the figures, although groundwater elevations increased in response to the shut-down, the magnitude of gradients within and around Well 1-1A and the Town of Vestal wells 1-2 and 1-3 does not appear to be influenced by the shutdown. Furthermore, the overall hydraulic gradients throughout the area and the direction of groundwater from the site to the wells and river are not significantly altered. In general, hydraulic gradients are gentler in the area downgradient of the site; this is likely due to an increase in aquifer hydraulic conductivity and transmissivity in these areas, as well as the presence of wetlands adjacent to and within the discharge zone for the Susquehanna River.

Figure 5-5 presents a summary of the water levels in select monitoring wells (4009-5, 4009-12, 4009-25D, 4009-26, 4009-28, and 4009-29D) and the Susquehanna River stage data from the United States Geological Survey (USGS) gauging station at Vestal, New York. The data were collected prior to, during, and after the shutdown (Arcadis 2014). As noted in the figure, a noticeable response is seen in the deep zone wells closest to Well 1-1A. These data, in conjunction with pumping rate and time information, were also used to evaluate changes in groundwater flow directions related to withdrawals from the Town of Vestal water supply wells 1-2A and 1-3.

As shown in Figure 5-5, the groundwater elevation data from the deep wells located closest to Well 1-1A (4009-29D, 4009-28 and 4009-12) show a similar response:

- Fluctuations in groundwater elevation closely related to changes in stage recorded for the Susquehanna River.
- Noticeable change in groundwater elevation when the Well 1-1A treatment facility was shut down.
- Cyclical changes in groundwater elevations in Wells 4009-12, 4009-28, and 4009-29 are related to diurnal pumping from Town of Vestal Wells 1-2A and/or 1-3. These data are supported by discussions with the Town of Vestal Water Superintendent regarding pump cycle times for wells 1-2A and 1-3.

The shallower wells presented in Figure 5-5 show a similar response to changes in stage recorded at the Susquehanna River, but the response is generally dampened and delayed compared to the wells screened deeper in the valley fill. The effects of pumping are also not as evident in wells 4009-25D and 4009-26 compared to the deeper wells. However, a slight change in elevation is noticeable when the Well 1-1A treatment plant is shut down.

Although water levels appear to be influenced by the shutdown, flow directions and gradients are still consistent with those observed prior to the shutdown, with flow generally north/northwest toward the river and wetland discharge points. Quarterly water level data collected to date continue to indicate that there is little change in the shallow, intermediate, and deep groundwater plume distribution since the shutdown of the Well 1-1A groundwater treatment plant.

## 5.5 VOC Plume Extent and Migration Evaluation

Groundwater analytical data is collected on a quarterly frequency and is discussed in each quarterly groundwater sampling report. Analytical results from historical groundwater sampling events indicated that the highest concentrations of VOCs include 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), trichloroethene (TCE), and vinyl chloride (VC). As expected, the highest total VOC concentrations in groundwater samples collected during the RSO sampling events were from wells immediately downgradient of the OU-2 source area. The horizontal extent of the VOC plume has clearly been influenced by decades of pumping at the extraction Wells 1-1/1-1A. However, groundwater extraction from these wells have also caused the plume to be drawn from the water table in the vicinity of the source area, to greater than 100 feet bgs approximately 2,000 feet to the west in the vicinity of Wells 1-1/1-1A. As shown on Figure 5-6, which presents the overall VOC plume extent during the April 2017 monitoring event, quarterly groundwater

monitoring data continue indicate that there is little change in the shallow, intermediate, and deep groundwater plume distribution and migration since the shutdown of the Well 1-1A groundwater treatment plant. In addition, quarterly monitoring continues to show that none of the wells located between the historical distribution of the VOC plume and the town well field indicate the plume is migrating toward the wells. VOCs have not been detected in the Town of Vestal wells 1-2 and 1-3 to date.

### **5.5.1 1<sup>st</sup> Quarter 2017 Groundwater Sampling Results**

Groundwater results from the April 2017 groundwater sampling event are provided in Table 5-2 along with historical analytical results. The VOCs measured at the highest concentrations were benzene, chloroethane, 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), trichloroethene (TCE), and vinyl chloride (VC). These results are consistent with the results from all previous quarterly RSO monitoring events; however, it is noted that benzene concentrations have increased in the central portion of the study area over the past two years at monitoring well clusters 4009-12, 4009-14, 4009-15, 4009-16, 4009-21 and 4009-29I. Benzene concentrations in samples from 7 of the 10 wells in these locations exceeded the NYSDEC Class GA Groundwater Standard of 1.0 µg/L for benzene. The maximum benzene concentration detected in the April 2017 groundwater samples was 24.0 ug/l at well 4009-21, which is located west of the Town of Vestal well field. The distribution of benzene in the groundwater, along with the fact that benzene is not a contaminant of concern at OU-2, suggest that the presence of benzene is not associated with the OU-1/OU-2 sites.

## **5.6 Town of Vestal Municipal Well Sampling**

Monthly analytical data are provided by the Town of Vestal Water Superintendent for Well 1-2A and 1-3. The most recent samples were collected on January 13, 2017, February 7, 2017, and March 7, 2017. Pre-treatment groundwater samples were also collected by Arcadis from the Town of Vestal water supply wells 1-2A and 1-3 on January 31, 2017, February 27, 2017, and March 23, 2017. These samples were used to supplement the Town's monthly influent sampling data and to evaluate potential impacts to the Town's water supply wells related to the shutdown of the Well 1-1A treatment plant. Samples were collected in consultation with the Town of Vestal Water District Superintendent and submitted to TestAmerica for analysis of VOCs by USEPA Method 8260.

VOCs associated with contamination from the source area were not detected in any of the pre-treatment effluent samples collected from the Town of Vestal water supply wells 1-2A and 1-3 during this reporting period. A summary of the monthly analytical data is provided in Table 5-3.

## **5.7 Focused Feasibility Study**

A Focused Feasibility Study (FFS) (Arcadis 2015) was prepared upon the conclusion of the initial portions of the RSO. The FFS presented a detailed and comparative evaluation of remedial alternatives was completed for the OU-1 groundwater at the Vestal Water Supply Site in accordance with NYSDEC DER-10. Based on the results of the RSA and subsequent technology, the FFS evaluated the following remedial alternatives of OU-1 that could be implemented in the absence of an active OU-2 remedy.

- **Alternative GW1** – No action.



- **Alternative GW2** – Implementation of institutional controls with no additional remedial actions other than continued operation of remedial Well 1-1A.
- **Alternative GW3** – Groundwater Remediation (Near Source Area)
  - GW3A – Groundwater Remediation Using In-Situ Enhanced Reductive Dechlorination (ERD)
  - GW3B – Groundwater Remediation Using Extraction and Treatment
  - GW3C – Groundwater Remediation Using a Zero-Valent Iron (ZVI) Permeable Reactive Barrier (PRB).
- **Alternative GW4** - Groundwater Remediation (Mid-Plume)
  - GW4A - Groundwater Remediation using In-Situ ERD
  - GW4B – Groundwater Remediation Using Air Sparging (AS) with Multi-Phase Extraction (MPE) and/or SVE.

The feasibility evaluation considered a focused set of remedial alternatives based on applicable technologies and evaluated these alternatives using standard criteria. The following conclusions were drawn from the feasibility evaluation:

1. Based upon the groundwater velocity in the primary aquifer, if a source remedy is implemented, cleanup downgradient will likely be achieved quickly.
2. The estimated cost to complete source area treatment is generally equal to or lower than the 30 year present worth cost for offsite groundwater treatment. However, it is expected that the remedial duration required for offsite treatment without source remediation will extend well beyond 30 years, which would likely drive the cost for all offsite groundwater remedial alternatives to be greater than source treatment.
3. Alternative GW2 (continued operation of remedial Well 1-1A and the common elements) is the highest ranking alternative when compared to the remedial alternatives implemented at Transect 2 (e.g., Alternatives GW4A and GW4B). However, this assumes that operation of an OU-1 remedy is required to protect the current Town of Vestal potable water wells, which has not been supported by RSO monitoring to date.



## 6 CONCLUSIONS AND RECOMMENDATIONS

### 6.1 Conclusions

Based on the results of the RSO, and since the Well 1-1A treatment plant is no longer operational, the remedy specified in the ROD has not been performing as it was intended as the operation of Well 1-1A resulted in vertical migration of the groundwater VOC plume, likely contributed to the horizontal migration of the plume to its current extent, and, by itself, will not result in the achievement of groundwater standards in the OU-1 area within the foreseeable future. However, as discussed herein, quarterly groundwater monitoring data indicate that there is little change in the shallow, intermediate, and deep groundwater plume distribution and migration since the shutdown of the Well 1-1A groundwater treatment system. In addition, none of the wells located between the historical distribution of the VOC plume and the town well field indicate the plume is migrating toward the wells. No VOCs have been detected in the Town of Vestal wells 1-2 and 1-3 to date.

The groundwater monitoring wells are in acceptable condition and allow for the continued monitoring of the horizontal and vertical extent of the groundwater VOC plume.

The implementation of the amended remedy to address the source contamination at OU-2 will likely result in the rapid (i.e., within 5 to 10 years) attenuation of the existing OU-1 groundwater plume through natural processes. In the absence of such a remedy, it is likely that the groundwater VOC plume will persist well beyond 30 years from present and will require continued regular monitoring throughout that time to confirm that the plume is not impacting the current Town of Vestal potable water supply wells. In the event that active remediation is required for OU-1 to protect the potable water supply wells in the absence of an effective OU-2 remedy, it is likely that such a remedy would also require operation well beyond 30 years.

### 6.2 Recommendations

Since the USEPA has recently issued an amended ROD for OU-2 and is in the process of designing the new remedy, it is recommended that RSO monitoring be continued until either the OU-2 remedy is implemented and/or monitoring data shows that resumption of an active OU-1 remedy is required based on the monitoring results. Changes to the monitoring program may be required depending on the status of the OU-2 remedy and/or changes in plume dynamics over time. It is further recommended that the PRR submittal frequency be reevaluated upon the conclusion of the OU-2 remedial actions.

## 7 REFERENCES

- Arcadis 2012. Remedial Site Optimization Work Plan, Vestal Water Supply Site, Vestal, New York, NYSDEC Site #7-04-009A. May 2012.
- Arcadis 2014. Remedial System Optimization Report – 1<sup>st</sup> Quarter 2014, Vestal Water Supply Site, Vestal, New York, NYSDEC Site #7-04-009A. August 2014.
- Arcadis 2015. Focused Feasibility Study for Groundwater – Operable Unit 1, Vestal Water Supply Site, Vestal, New York, NYSDEC Site #7-04-009A. September 2015.
- Lockheed Martin, 2012. Conceptual Site Model, Vestal Chlorinated Solvent Site, Vestal, New York. WA #0-064: Technical Memorandum.
- Tetra Tech EC 2006. Final Operation and Maintenance Manual, Long-Term Response, Operable Unit 1, Vestal Well 1-1 Site, Vestal, New York. 2016.
- USEPA 2016. Record of Decision Amendment for the Vestal Water Supply Well 1-1 Superfund Site, Town of Vestal, Broome County, New York. September 2016.

TABLES



**Table 5-1 Drilling and Well Summary**  
**Remedial Site Optimization Work Plan**  
**Vestal Water Supply Site**  
**Site Number 7-04-009A**

New Well ID	Total Depth Drilled	Till Contact	Bedrock Contact	Screened interval (bgs)
4009-23S	82	50	78	10-20
4009-23D	82	50	78	45-50
4009-24	78	56	76	15-25
4009-25S	69	37	67	11-21
4009-25D	69	37	67	27-37
4009-26	84	56	82	46-56
4009-27S	124	95	122	40-50
4009-27I	124	95	122	65-75
4009-27D	124	95	122	85-95
4009-28	189	184	Not Encountered	129-139
4009-29S	109	101	Not Encountered	40-50
4009-29I	109	101	Not Encountered	60-70
4009-29D	109	101	Not Encountered	85-95

Notes:

HORIZONTAL DATUM: NAD 83 FROM GPS OBSERVATIONS

VERTICAL DATUM: NAVD 88 FROM GPS OBSERVATIONS

Sample ID	NYSDEC GA Standard	4009-1 2/20/2014 Shallow	4009-1 5/28/2014 Shallow	4009-1 8/28/2014 Shallow	4009-1 12/9/2014 Shallow	4009-2 2/20/2014 Shallow	4009-2 5/28/2014 Shallow	4009-2 8/28/2014 Shallow	4009-2 12/9/2014 Shallow	4009-3 2/20/2014 Shallow	4009-3 5/28/2014 Shallow	4009-3 8/28/2014 Shallow	4009-3 12/9/2014 Shallow	4009-4 2/20/2014 Intermediate	4009-4 5/28/2014 Intermediate	4009-4 8/28/2014 Intermediate	4009-4 12/9/2014 Intermediate	4009-5 2/20/2014 Intermediate	4009-5 5/28/2014 Intermediate	4009-5 8/28/2014 Intermediate
Sampling Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Groundwater Monitoring Zone																				
Units																				
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.6 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.1	1.3	0.9 J	1.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	0.5 J	1.0 UJ	0.37 J	2.7	2.3	2.6 J	3.4	6.3	6.6	7.5 J	4.8	1.0 U	0.4 J	1.0 UJ	1.0 U	2.7	3.0 J	1.3 J
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.3	1.1	1.1 J	0.87 J	1.0 U	1.0 U	1.0 UJ	1.0 U	2.2	1.8 J	1.0 UJ
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	5.0 U	1.0 UJ
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
2-Butanone (MEK)	50	1.3 J	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	1.5 J	10 U	10 UJ	10 U	10 U	50 U	10 UJ
2-Hexanone	50*	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	25 U	5.0 UJ
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	25 U	5.0 UJ
Acetone	50*	10	4.2 J	12 J	10 U	7.2 J	3.5 J	9.9 J	10 U	10	4.6 J	12 J	10 U	12	3.4 J	8.0 J	10 U	11	50 U	11 J
Benzene	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	3.2	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	3.6 J	1.0 U	1.0 U	5.0 U	1.7 J
Bromodichloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Bromoform	50*	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Bromomethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Carbon disulfide		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Chlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Chloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Chloroform	7	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Chloromethane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
cis-1,2-Dichloroethene	5	1.6	2.0	2.2 J	2.4	14	12	9.0 J	6.9	77	65	63 J	48	1.0 U	79	1.3 J	0.45 J	250 D	280	170 J
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Dibromochloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	5.0 U	1.0 UJ
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Ethylbenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Methyl Acetate		2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 UJ	10.0 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	13 U	2.5 UJ
Methyl Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Methylene Chloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	4.6 J	1.0 UJ
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Styrene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Tetrachloroethene	5	1.4	0.4 J	1.7 J	0.84 J*	1.0 U	1.0 U	1.0 UJ	0.51 J*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	5.0 U	1.0 UJ
Toluene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	0.6 J	1.0 U	1.0 UJ
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	0.46 J	1.0 U	1.0 U	1.0 UJ	0.45 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	5.0 U	1.0 UJ
Trichloroethene	5	1.4	1.1	1.7 J	1.5	2.9	2.7	2.3 J	2.5	26	15	12 J	11	1.0 U	1.5	1.0 UJ	1.0 U	21	19	12 J
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Vinyl chloride	2	1.0 U	1.0 U	1.0 UJ	1.0 U	6.9	1.3	5.1 J	6.5	11	13	33 J	16	1.0 U	1.0 U	1.0 UJ	1.0 U	39	41	14 J
Xylenes, Total		2.0 U	2 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	10 U	2.0 UJ
Total VOCs		15.7	8.2	17.6	5.11	34.8	26.3	29.8	21.8	132	105	130	81.1	13.5	84.3	13.5	0.45	327	349	210
Total VOCs (w/o Acteone or Methylene Chloride)		5.7	4.0	5.6	5.11	27.6	22.8	19.9	21.8	122	101	118	81.1	1.50	80.9	5.50	0.45	316	345	199

**Notes**  
NYSDEC GA GW Standard - New York State Department of  
Environmental Conservation Groundwater Standard  
- Concentration exceeds NYSDEC Class GA Standard  
U - Compound was not detected at the indicated concentration  
J - Compound detected below the reporting limit or  
reported concentration is estimated  
B - Analyte detected in the method blank and sample  
E - Estimated value  
D- Result of diluted sample shown  
M - Manual integrated compound  
\* - Laboratory control sample / duplicate exceeds control limits.  
¹-This is a duplicate sample from 4009-12  
²-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.

Table 5-2 Summary of Groundwater Results  
Remedial Site Optimization Report First Quarter 2017  
Vestal Water Supply Site  
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-5 12/9/2014 Intermediate ug/L	4009-6 2/20/2014 Shallow ug/L	4009-6 5/28/2014 Shallow ug/L	4009-6 8/28/2014 Shallow ug/L	4009-6 12/9/2014 Shallow ug/L	4009-7 2/20/2014 Shallow ug/L	4009-7 5/28/2014 Shallow ug/L	4009-7 8/28/2014 Shallow ug/L	4009-7 12/9/2014 Shallow ug/L	4009-7 4/10/2017 Shallow ug/L	4009-8 2/20/2014 Intermediate ug/L	4009-8 5/28/2014 Intermediate ug/L	4009-8 8/28/2014 Intermediate ug/L	4009-8 12/9/2014 Intermediate ug/L	4009-8 4/10/2017 Intermediate ug/L	4009-9 2/20/2014 Shallow ug/L	4009-9 5/28/2014 Shallow ug/L	4009-9 8/28/2014 Shallow ug/L	4009-9 12/9/2014 Shallow ug/L
1,1,1-Trichloroethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	790 D	1000	2900 DJ	1500	560	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2,2-Tetrachloroethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	14	13 J	20 UDJ	17 J	5.1 J	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2-Trichloroethane	1	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	0.5 J	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethane	5	1.7 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 J	0.48 J	1.0 UJ	3.3 U	1.1	40	62	72 DJ	58	51	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.29 J	1.0 UJ	3.3 U	0.44 J	31	120	94 DJ	120	31	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2,3-Trimethylbenzene		13 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	17 U	1.0 U	1.0 U	20 U	20 UDJ	130 U	10 U	1.0 U	1.0 U	1.0 UJ	5.0 U
1,2,4-Trichlorobenzene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2,4-Trimethylbenzne	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	6.7 U	1.0 U	1.0 U	20 U	20 UDJ	50 U	10 U	1.0 U	1.0 U	1.0 UJ	2.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichlorobenzene	3	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloroethane	0.6	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloropropane	1	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,3-Dichlorobenzene	3	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,4-Dichlorobenzene	3	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
2-Butanone (MEK)	50	25 U	10 U	10 U	10 UJ	10 U	10 U	1.4 J	10 UJ	33 U	10 U*	10 U	200 U	200 UDJ	250 U	100 U*	1.4 J	10 U	10 UJ	10 U
2-Hexanone	50*	25 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	33 U	5.0 U	5.0 U	100 U	100 UDJ	250 U	50 U	5.0 U	5.0 U	5.0 UJ	10 U
4-Methyl-2-pentanone (MIBK)		25 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	33 U	5.0 U	5.0 U	100 U	100 UDJ	250 U	50 U	5.0 U	5.0 U	5.0 UJ	10 U
Acetone	50*	25 U	8.5 J	10 U	9.8 J	10 U	5.3 J	7.1 J	14 J	33 U	3.4 J	9.6 J	200 U	200 UDJ	250 U	100 U	12	3.3 J	11 J	10 U
Benzene	1	0.62 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.1	1.0 U	0.41 J	3.3 U	1.0 U	0.67 J	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.3 J	1.3
Bromodichloromethane	50	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromoform	50*	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U*	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromomethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon disulfide		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon tetrachloride	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chlorobenzene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.3 J	1.0 UJ	3.3 U	1.0 U	2.2	20 U	20 UDJ	25 U	7.8 J	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroform	7	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	0.6 J	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloromethane		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
cis-1,2-Dichloroethene	5	170	1.0 U	1.0 U	1.0 UJ	0.24 J	20	46	36 J	38	42	440 D	310	550 DJ	490	230	6.3	4.0	13 J	7.0
cis-1,3-Dichloropropene	0.4	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Cyclohexane		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Dibromochloromethane	50	2.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U*
Dichlorodifluoromethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Ethylbenzene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Isopropylbenzne (Cumene)	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methyl Acetate		25 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 UJ	33 U	2.5 U	2.5 U	50 U	50 UDJ	250 U	25 U	2.5 U	2.5 U	2.5 UJ	10 U
Methyl Cyclohexane		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methylene Chloride	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	9.1 DJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methyl Tert Butyl Ether	10	2.5 U	0.3 J	0.27 J	1.0 UJ	0.23 J	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Styrene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Tetrachloroethene	5	2.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	1.3	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U*
Toluene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
trans-1,2-Dichloroethene	5	0.69 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.1	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
trans-1,3-Dichloropropene	0.4	2.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U*
Trichloroethene	5	14	0.5 J	0.61 J	1.0 UJ	0.37 J	2.1	4.1	3.3 J	2.7 J	0.93 J	19	20 U	20 UDJ	7.1 J	150	0.5 J	0.66 J	0.67 J	0.80 J
Trichlorofluoromethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Vinyl chloride	2	31	1.0 U	1.0 U	1.0 UJ	1.0 U	2.5	3.1	3.1 J	3.0 J	22	44	140	92 DJ	44	30	1.0 U	1.0 U	1.0 UJ	1.0 U
Xylenes, Total		5.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	6.7 U	2.0 U	2.0 U	40 U	40 UDJ	50 U	20 U	1.0 U	2.0 U	2.0 UJ	2.0 U
Total VOCs		218	9.29	0.88	9.80	0.84	32.0	62.8	56.8	43.7	69.9	1394	1645	3717	2236	1065	20.2	7.96	26.0	9.10
Total VOCs (w/o Acteone or Methylene Chloride)		218	0.79	0.88	0.0	0.84	26.7	55.7	42.8	43.7	66.47	1384	1645	3717	2236	1065	8.24	4.66	15.0	9.10

Notes  
NYSDEC GA GW Standard - New York State Department of  
Environmental Conservation Groundwater Standard  
- Concentration exceeds NYSDEC Class GA Standard  
U - Compound was not detected at the indicated concentration  
J - Compound detected below the reporting limit or  
reported concentration is estimated  
B - Analyte detected in the method blank and sample  
E - Estimated value  
D- Result of diluted sample shown  
M - Manual integrated compound  
\* - Laboratory control sample / duplicate exceeds control limits.  
¹-This is a duplicate sample from 4009-12  
²-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID	NYSDEC GA	4009-9 4/20/2015	4009-9 7/29/2015	4009-9 11/4/2015	4009-9 3/28/2016	4009-9 6/30/2016	4009-9 9/29/2016	4009-9 11/28/2016	4009-9 4/10/2017	4009-10 2/20/2014	4009-10 5/28/2014	4009-10 8/28/2014	4009-10 12/9/2014	4009-10 4/20/2015	4009-10 7/29/2015	4009-10 11/4/2015	4009-10 3/28/2016	4009-10 6/30/2016	4009-10 9/29/2016	4009-10 11/28/2016
Sampling Date	Standard	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Groundwater Monitoring Zone	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Units																				
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.32 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	0.38 J	1.0 U	0.39 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10.0 U	10.0 U	10.0 U	10 U	10 U	10 U	10 U*	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	7.1 J	10.0 U	10.0 U	3.5 J	10 U	10 U	10 U	3.5 J	10	3.2 J	7.5 J	10 U	9.2 J	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	1.0 U	3.4	2.5	1.0 U	1.0 U	3.7	1.3	1.0 U	0.6 J	0.53 J	2.3 J	26	1.0 U	1.8	0.97 J	1.0 U	1.9	0.65 J	3.4
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.9	15	21	4.0	21	22	19	8.2	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	0.52 J	0.59 J	0.52 J	0.74 J	0.65 J	0.57 J	0.81 J	0.97 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		9.52	18.99	24.4	8.24	22.04	26.3	21.1	12.7	12.6	3.73	9.80	26.3	9.20	1.80	0.97	0.0	1.9	0.65	3.4
Total VOCs (w/o Acteone or Methylene Chloride)		2.42	18.99	24.4	4.74	22.04	26.3	21.1	9.17	2.6	0.53	2.3	26.3	0.0	1.80	0.97	0.0	1.9	0.65	3.4

**Notes**  
NYSDEC GA GW Standard - New York State Department of  
Environmental Conservation Groundwater Standard  
- Concentration exceeds NYSDEC Class GA Standard  
U - Compound was not detected at the indicated concentration  
J - Compound detected below the reporting limit or  
reported concentration is estimated  
B - Analyte detected in the method blank and sample  
E - Estimated value  
D- Result of diluted sample shown  
M - Manual integrated compound  
\* - Laboratory control sample / duplicate exceeds control limits.  
¹-This is a duplicate sample from 4009-12  
²-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID	NYSDEC GA	4009-10 4/10/2017	4009-11 2/20/2014	4009-11 5/28/2014	4009-11 8/28/2014	4009-11 12/9/2014	4009-11 4/20/2015	4009-11 7/29/2015	4009-11 11/4/2015	4009-11 3/28/2016	4009-11 6/30/2016	4009-11 9/29/2016	4009-11 11/28/2016	4009-11 4/10/2017	4009-11A 2/20/2014	4009-11A 5/28/2014	4009-11A 8/28/2014	4009-11A 12/9/2014	4009-11A 4/20/2015	4009-11A 7/29/2015
Sampling Date	Standard	Shallow	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Groundwater Monitoring Zone	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Units																				
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.9 J	1.0 U	1.0 U	1.0 U	79	1.0 U	57	87	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	0.74 J	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	20	0.76 J	13	21	2.1	2.8	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	8.7	1.0 U	3.4	5.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U*	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	10 U	10 U	10 UJ	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U
Acetone	50*	3.4 J	7.8 J	4.6 J	10 UJ	10 U	6.7 J	10 U	10 U	4.4 J	10 U	10 U	10 U	3.7 J	9.8 J	4.1 J	10 J	10 U	7.6 J	10 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 UJ	7.8	5.6	8.4	1.0 U	18	1.0 U	1.3	16	15	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.5	1.5	1.2	1.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	12	1.0 U	8.8	15	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0	1.0	1.0	1.0 U	0.79 J	1.0 U	1.0 U	0.82 J	0.85 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	19	1.0 U	14	17	2.0 U	1.1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U
Total VOCs		3.4	7.80	4.60	1.90	8.80	13.3	9.40	140	25.45	98.14	150	18.9	23.5	9.80	4.10	10.0	0.0	7.60	0.0
Total VOCs (w/o Acteone or Methylene Chloride)		0.0	0.0	0.0	1.90	8.80	6.60	9.40	140	21.05	98.14	150	18.92	19.75	0.0	0.0	0.0	0.0	0.0	0.0

**Notes**  
NYSDEC GA GW Standard - New York State Department of  
Environmental Conservation Groundwater Standard  
 - Concentration exceeds NYSDEC Class GA Standard  
U - Compound was not detected at the indicated concentration  
J - Compound detected below the reporting limit or  
reported concentration is estimated  
B - Analyte detected in the method blank and sample  
E - Estimated value  
D- Result of diluted sample shown  
M - Manual integrated compound  
\* - Laboratory control sample / duplicate exceeds control limits.  
<sup>1</sup>-This is a duplicate sample from 4009-12  
<sup>2</sup>-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.



Sample ID	NYSDEC GA	4009-11A 11/4/2015	4009-11A 3/28/2016	4009-11A 6/30/2016	4009-11A 9/29/2016	4009-11A 11/28/2016	4009-11A 4/10/2017	4009-12 2/20/2014	4009-12 5/28/2014	4009-12 8/28/2014	4009-12 12/9/2014	4009-12 4/20/2015	4009-12 7/29/2015	4009-12 11/4/2015	4009-12 3/28/2016	4009-12 6/30/2016	4009-12 9/29/2016	4009-12 11/28/2016	4009-12 4/10/2017	DUP-02 4/10/2017
Sampling Date	Standard	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep
Groundwater Monitoring Zone	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Units																				
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	32	43	1.0 U	290	1.0 U	180	67	1.0 U	1.0 U	1.0 U	1.0 U	100	110
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.9 J	1.6 J
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0	6.5	1.0 U	29	1.8	25	29	3.1	2.9	2.4	2.9	18	17
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.4	6.1	1.0 U	30	1.0 U	20	8.5	1.0 U	1.0 U	1.0 U	1.0 U	3.2	2.6
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	110 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	44 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U*	10 U	10 U	10 U	220 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U*	20 U*
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	220 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	220 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Acetone	50*	10 U	4.6 J	3.5 J	10 U	10 U	4.1 J	5.8 J	3.8 J	7.0 J	220 U	7.1 J	50 U	10 U	10 U	10 U	10 U	10 U	5.5 J	20 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.5	1.6	22 U	2.7	2.9 J	2.4	6.7	7.5	8.7	9.1	3.6	3.3
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U*	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	0.83 J	1.0 U	1.0 U	1.0 U	1.0 U	1.1	2.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	13	9.5	8.5	63	4.1	41	18	1.5	1.1	1.0	0.95 J	11	11
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	220 U	2.5 U	13 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	0.50 JB	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.8 J	0.74 J	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17	18	1.0 U	64	1.0 U	39	11	0.77 J	0.81 J	0.55 J	0.60 J	3.0	3.3
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.1	3.7	0.9 J	30	2.3	51	41	1.7	1.4	1.1	1.6	5.7	5.7
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	44 U	2.0 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U
Total VOCs		0.0	4.60	3.50	0.0	0.0	4.1	81.3	93.9	18.7	506	18.0	359	178	14.3	13.7	13.8	15.2	146	144
Total VOCs (w/o Acteone or Methylene Chloride)		0.0	0.0	0.0	0.0	0.0	0.0	75.5	90.1	11.7	506	10.9	359	178	13.8	13.7	13.8	15.2	146	144

**Notes**  
NYSDEC GA GW Standard - New York State Department of  
Environmental Conservation Groundwater Standard  
- Concentration exceeds NYSDEC Class GA Standard  
U - Compound was not detected at the indicated concentration  
J - Compound detected below the reporting limit or  
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\* - Laboratory control sample / duplicate exceeds control limits.  
¹-This is a duplicate sample from 4009-12  
²-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-12A 2/20/2014 Intermediate ug/L	4009-12A 5/28/2014 Intermediate ug/L	4009-12A 8/28/2014 Intermediate ug/L	4009-12A 12/9/2014 Intermediate ug/L	4009-13 2/20/2014 Deep ug/L	4009-13 5/28/2014 Deep ug/L	4009-13 8/28/2014 Deep ug/L	4009-13 12/9/2014 Deep ug/L	4009-13 4/20/2015 Deep ug/L	4009-13 7/29/2015 Deep ug/L	4009-13 11/4/2015 Deep ug/L	4009-13 3/28/2016 Deep ug/L	4009-13 6/30/2016 Deep ug/L	4009-13 9/29/2016 Deep ug/L	4009-13 11/28/2016 Deep ug/L	4009-13 4/26/2017 Deep ug/L	4009-13A 2/20/2014 Shallow ug/L	4009-13A 5/28/2014 Shallow ug/L	4009-13A 8/28/2014 Shallow ug/L
1,1,1-Trichloroethane	5	34	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1-Dichloroethane	5	4.3	7.8	4.3	2.8	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1-Dichloroethene	5	3.8	1.3	0.6 J	0.53 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Acetone	50*	9.9 J	3.9 J	10 U	10 U	8.4 J	3.8 J	10 UJ	10 U	8.9 J	10 U	10 U	10 U	3.5 J	10 U	10 U	10 U	8.4 J	10 U	11 J
Benzene	1	1.0 U	1.0 U	0.57 J	0.31 J	1.0 U	0.42 J	4.8 J	1.0	0.96 J	1.7	3.2	3.2	2.4	1.9	1.9	0.41 J	1.0 U	0.58 J	1.0 UJ
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 UJ
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloroethane	5	1.0 U	7.5	7.0	4.1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
cis-1,2-Dichloroethene	5	15	18	15	14	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Methyl Acetate		2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Toluene	5	1.0 U	0.55 J	0.53 J	1.0 U	1.0 U	3.7	2.7 J	0.55 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Trichloroethene	5	19	2.2	1.0	0.30 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Vinyl chloride	2	6.4	1.0 U	1.7	6.5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ
Total VOCs		92.4	41.3	30.7	28.5	8.40	7.92	7.50	1.55	9.90	1.70	3.20	3.20	5.90	1.90	1.90	0.41	8.40	0.58	11.0
Total VOCs (w/o Acteone or Methylene Chloride)		82.5	37.4	30.7	28.5	0.0	4.12	7.50	1.55	1.00	1.70	3.20	3.20	2.40	1.90	1.90	0.41	0.0	0.58	0.0

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D- Result of diluted sample shown  
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\* - Laboratory control sample / duplicate exceeds control limits.  
<sup>1</sup>-This is a duplicate sample from 4009-12  
<sup>2</sup>-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID	NYSDEC GA	4009-13A 12/9/2014	4009-13A 4/20/2015	4009-13A 7/29/2015	4009-13A 11/4/2015	4009-13A 3/28/2016	4009-13A 6/30/2016	4009-13A 9/29/2016	4009-13A 11/28/2016	4009-13A 4/26/2017	4009-14 2/20/2014	4009-14 5/28/2014	4009-14 8/28/2014	4009-14 12/9/2014	4009-14 4/20/2015	4009-14 7/29/2015	4009-14 11/4/2015	4009-14 3/28/2016	4009-14 6/30/2016	4009-14 9/29/2016	4009-14 11/28/2016
Sampling Date	Standard	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep
Groundwater Monitoring Zone	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Units																					
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	6.8 J	10 U	10 U	10 U	10 U	10 U	10 U	3.0 J	6.3 J	4.3 J	11	10 U	7.1 J	10 U	3.1 J	10 U	4.1 J	10 U	10 U
Benzene	1	0.96 J	1.0 U	1.0 U	0.44 J	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.54 J	1.2	4.0	12	18	14	15	17
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.91 J	1.0	0.92 J	1.0	1.2	1.2	0.78 J	1.0 U	0.55 J	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		0.96	6.80	0.0	0.44	1.20	0.0	0.0	0.0	3.0	6.30	5.21	12.0	1.46	9.30	5.20	16.3	18.78	18.1	15.6	17.0
Total VOCs (w/o Acteone or Methylene Chloride)		0.96	0.0	0.0	0.44	1.20	0.0	0.0	0.0	0.0	0.0	0.91	1.00	1.46	2.20	5.20	13.2	18.78	14.0	15.6	17.0

**Notes**  
NYSDEC GA GW Standard - New York State Department of  
Environmental Conservation Groundwater Standard  
- Concentration exceeds NYSDEC Class GA Standard  
U - Compound was not detected at the indicated concentration  
J - Compound detected below the reporting limit or  
reported concentration is estimated  
B - Analyte detected in the method blank and sample  
E - Estimated value  
D- Result of diluted sample shown  
M - Manual integrated compound  
\* - Laboratory control sample / duplicate exceeds control limits.  
¹-This is a duplicate sample from 4009-12  
²-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID	NYSDEC GA	4009-14 4/10/2017	4009-15 2/20/2014	4009-15 5/28/2014	4009-15 8/28/2014	4009-15 12/9/2014	4009-15 4/20/2015	4009-15 7/29/2015	4009-15 11/4/2015	4009-15 3/28/2016	4009-15 6/30/2016	4009-15 9/29/2016	4009-15 11/28/2016	4009-15 4/10/2017	4009-16 2/20/2014	4009-16 5/28/2014	4009-16 8/28/2014	4009-16 12/9/2014	4009-16 4/20/2015	4009-16 7/29/2015	4009-16 11/4/2015
Sampling Date	Standard	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep
Groundwater Monitoring Zone	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Units																					
1,1,1-Trichloroethane	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	NS	0.5 J	0.53 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.98 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		NS	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	NS	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	NS	10 U	1.3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	NS	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		NS	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U
Acetone	50*	NS	7.5 J	5.1 J	7.2 J	10 U	5.8 J	10 U	4.9 J	5.1 J	9.1 J	4.3 J	8.4 J	4.5 J	5.9 J	3.5 J	7.1 J	10 U	6.0 J	10 U	10 U
Benzene	1	NS	1.0 U	1.0 U	0.5 J	0.86 J	1.8	9.1	8.0	9.1	8.5	7.8	9.0	0.97 J	1.0 U	1.0 U	8.2	0.39 J	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	NS	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		NS	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	NS	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U
Toluene	5	NS	1.0 U	0.56 J	0.61 J	0.72 J	0.77 J	1.0	0.84 J	0.57 J	1.0 U	0.61 J	1.0 U	1.0 U	1.0 U	1.0 U	1.5	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	NS	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U
Trichloroethene	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs	-		8.02	7.49	8.31	1.58	8.37	10.1	13.74	14.77	17.6	12.7	17.4	7.6	5.90	3.50	16.8	0.39	6.00	0.0	0.0
Total VOCs (w/o Acteone or Methylene Chloride)	-		0.52	2.39	1.11	1.58	2.57	10.1	8.84	9.67	8.50	8.41	9.00	3.05	0.0	0.0	9.70	0.39	0.0	0.0	0.0

**Notes**  
NYSDEC GA GW Standard - New York State Department of  
Environmental Conservation Groundwater Standard  
- Concentration exceeds NYSDEC Class GA Standard  
U - Compound was not detected at the indicated concentration  
J - Compound detected below the reporting limit or  
reported concentration is estimated  
B - Analyte detected in the method blank and sample  
E - Estimated value  
D- Result of diluted sample shown  
M - Manual integrated compound  
\* - Laboratory control sample / duplicate exceeds control limits.  
<sup>1</sup>-This is a duplicate sample from 4009-12  
<sup>2</sup>-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID	NYSDEC GA	4009-16 3/28/2016	4009-16 6/30/2016	4009-16 9/29/2016	4009-16 11/28/2016	4009-16 4/10/2017	4009-16A 2/20/2014	4009-16A 5/28/2014	4009-16A 8/28/2014	4009-16A 12/9/2014	4009-16A 4/20/2015	4009-16A 7/29/2015	4009-16A 11/4/2015	4009-16A 3/28/2016	4009-16A 6/30/2016	4009-16A 9/29/2016	4009-16A 11/28/2016	4009-16A 4/10/2017	4009-18 5/6/2015	4009-18 7/29/2015	4009-18 11/4/2015
Sampling Date	Standard	Deep	Deep	Deep	Deep	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep
Groundwater Monitoring Zone	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Units																					
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.86 J	1.0	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	NS	1.6 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	3.3 J	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	4.5 J	10 U	10 U	NS	12	4.0 J	7.6 J	10 U	6.4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10	10 U	10 U
Benzene	1	1.0 U	8.4	8.0	1.8	NS	1.0 U	1.9	7.2	8.0	5.7	11	3.0	4.2	0.49 J	1.4	36	1.8	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	NS	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	0.69 J	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		0.0	12.9	8.69	1.80		13.6	5.90	14.8	8.00	12.1	11.0	3.00	4.20	0.49	1.40	36.0	6.80	14.16	1.00	0.0
Total VOCs (w/o Acteone or Methylene Chloride)		0.0	8.4	8.69	1.80		1.60	1.90	7.20	8.00	5.70	11.0	3.00	4.20	0.49	1.40	36.0	1.80	4.16	1.00	0.0

**Notes**  
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- Concentration exceeds NYSDEC Class GA Standard  
U - Compound was not detected at the indicated concentration  
J - Compound detected below the reporting limit or  
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B - Analyte detected in the method blank and sample  
E - Estimated value  
D- Result of diluted sample shown  
M - Manual integrated compound  
\* - Laboratory control sample / duplicate exceeds control limits.  
¹-This is a duplicate sample from 4009-12  
²-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID	NYSDEC GA	4009-18 3/28/2016	4009-18 6/30/2016	4009-18 9/29/2016	4009-18 11/28/2016	4009-18 4/10/2017	4009-19 4/20/2015	4009-19 7/29/2015	4009-19 11/4/2015	4009-19 3/28/2016	4009-19 6/30/2016	4009-19 9/29/2016	4009-19 11/28/2016	4009-19 4/10/2017	4009-21 4/20/2015	4009-21 7/29/2015	4009-21 11/4/2015	4009-21 3/28/2016	4009-21 6/30/2016	4009-21 9/29/2016	4009-21 11/28/2016
Sampling Date	Standard	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep
Groundwater Monitoring Zone	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Units																					
1,1,1-Trichloroethane	5	1.0 U	0.83 J	1.0 U	1.0 U	0.83 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	10 U	10 U	10 U	6.4 J	8.5 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4.2 J	7.9 J	10 U	10 U	10 U	10 U	10 U
Benzene	1	0.41 J	1.0 U	0.47 J	1.7	1.0 U	2.7	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11	31	21	21	19
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	0.58 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.64 J	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		0.99	0.83	0.47	1.70	7.23	11.2	1.00	0.0	0.0	0.0	0.0	0.0	0.0	4.2	7.90	0.0	11.0	31.64	21.0	19.0
Total VOCs (w/o Acteone or Methylene Chloride)		0.41	0.83	0.47	1.70	0.83	2.70	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	31.0	21.0	21.0	19.0

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\* - Laboratory control sample / duplicate exceeds control limits.  
<sup>1</sup>-This is a duplicate sample from 4009-12  
<sup>2</sup>-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.



Sample ID	NYSDEC	4009-21	4009-22	4009-22	4009-22	4009-22	4009-22	4009-22	4009-22	4009-22	4009-22	4009-22	4009-22	4009-22	4009-22	4009-22	4009-23S	4009-23S	4009-23S	4009-23S	4009-23D	4009-23D	4009-23
Sampling Date	GA	4/10/2017	12/3/2013	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016	9/29/2016	11/28/2016	4/10/2017	2/20/2014	5/28/2014	8/28/2014	12/9/2014	2/20/2014	5/28/2014	8/28/2014	8/28/2014
Groundwater Monitoring Zone	Standard	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	130 D	720	140	
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	24	18	12	
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.2	4.4	2.5 J	2.2	250 D	420	220	
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	31	78	23	
1,2,3-Trimethylbenzene		1.0 U		1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.8	0.38 J	0.44 J	5.0 U	10 UD	10 U	1.0	
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
1,2,4-Trimethylbenzne	5	1.0 U		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.6	2.0	4.2 J	1.0 U	10 UD	10 U	1.0	
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	10 U	1.0	
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	0.4 J	10 U	0.39	
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.4	1.2	4.0 J	1.0 U	10 UD	10 U	1.0	
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
2-Butanone (MEK)	50	10 U*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	10 U	10 U	10 UJ	10 U	10 U	100 U	10	
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	50 U	5.0	
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	50 U	5.0	
Acetone	50*	7.1 J	3.1 J	12	10 U	11	10 U	6.5 J	10.0 U	10.0 U	10.0 U	4.0 J	10 U	10 U	6.5 J	6.1 J	10 U	7.2 J	10 U	8.3 J	100 U	9.8	
Benzene	1	24	0.7 J	0.7 J	0.92 J	0.98 J	0.82 J	1.2	1.1	1.2	1.6	1.3	1.3	1.1	1.1	1.8	1.8	1.8 J	1.1	1.0 U	10 U	0.62	
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2 J	0.64 J	11	11	8.2	
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2	2.2	1.9 J	2.9	580 D	450	460	
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.8 J	0.61 J	0.85 J	1.0 U	1.0 U	10 U	1.0	
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	10 U	1.0	
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.83 J	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.3	3.6	5.8 J	2.2	1.0 U	10 U	1.0	
Methyl Acetate		2.5 U	1.0 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	25 U	2.5	
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.7 J	0.5 J	1.0 UJ	1.0 U	0.3 J	10 U	1.0	
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.46 J	1.0 U	1.0 U	1.0 U	1.8	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0	
Methyl Tert Butyl Ether	10	1.0 U	1																				

**Notes**  
NYSDEC GA GW Standard - New York State Department of  
Environmental Conservation Groundwater Standard  
 - Concentration exceeds NYSDEC Class GA Standard  
U - Compound was not detected at the indicated concentration  
J - Compound detected below the reporting limit or  
reported concentration is estimated  
B - Analyte detected in the method blank and sample  
E - Estimated value  
D- Result of diluted sample shown  
M - Manual integrated compound  
\* - Laboratory control sample / duplicate exceeds control limits.  
¹-This is a duplicate sample from 4009-12  
²-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.

Table 5-2 Summary of Groundwater Results  
Remedial Site Optimization Report First Quarter 2017  
Vestal Water Supply Site  
Site Number 7-04-009A

Sample ID	NYSDEC GA	4	4009-23D 12/9/2014	4009-24 2/20/2014	4009-24 5/28/2014	4009-24 8/28/2014	4009-24 12/9/2014	4009-25S 2/20/2014	4009-25S 5/28/2014	4009-25S 8/28/2014	4009-25S 12/9/2014	4009-25D 2/20/2014	4009-25D 5/28/2014	4009-25D 8/28/2014	4009-25D 12/9/2014	4009-26 2/20/2014	4009-26 5/28/2014	4009-26 8/28/2014	4009-26 12/9/2014	4009-26 4/10/2017	4009-27S 2/20/2014	4009-27S 5/28/2014
Sampling Date	Standard	ate	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
Groundwater Monitoring Zone	ug/L		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Units																						
1,1,1-Trichloroethane	5	DJ	570	1.0 U	1.0 U	1.0 UJ	1.0 U	2600 D	3300	9900 DJ	3800	1900 D	3300	820 DJ	1900	98	370	150 DJ	92	100	54	61
1,1,2,2-Tetrachloroethane	5	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		J	8.2	1.0 U	1.0 U	1.0 UJ	1.0 U	31	40 U	40 UDJ	32 J	32	22 J	19 DJ	25 J	7.7	13	6.0 DJ	7.7	5.3	2.8	3.4
1,1,2-Trichloroethane	1	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	DJ	280	1.0 U	1.0 U	1.0 UJ	1.0 U	87	140	120 DJ	99	74	120	53 DJ	50	27	39	16 DJ	14	30	1.9	2.2
1,1-Dichloroethene	5	J	40	1.0 U	1.0 U	1.0 UJ	1.0 U	110 D	410	650 DJ	280	120 D	330	57 DJ	190	6.0	46	9.9 DJ	7.8	3.8	5.7	8.9
1,2,3-Trimethylbenzene		UJ	33 U	1.0 U	1.0 U	1.0 UJ	5.0 U	40 UD	40 U	40 UDJ	250 U	20 UD	20 U	20 UDJ	170 U	2.0 UD	8.0 U	2.0 UDJ	10 U	2.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2 U	2.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	40 UD	40 U	40 UDJ	50 U	20 UD	20 U	20 UDJ	33 U	2.0 UD	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	UJ	13 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	40 U	40 UDJ	100 U	1.0 U	20 U	20 UDJ	67 U	1.0 U	8.0 U	2.0 UDJ	4.0 U	2.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	J	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	0.9 J
1,2-Dichloropropane	1	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	40 UD	40 U	40 UDJ	50 U	20 UD	20 U	20 UDJ	33 U	2.0 UD	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	UJ	67 U	1.4 J	10 U	10 UJ	10 U	10 U	400 U	400 UDJ	500 U	10 U	200 U	200 UDJ	330 U	10 U	80 U	20 UDJ	20 U	20 U*	10 U	10 U
2-Hexanone	50*	UJ	67 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	200 U	200 UDJ	500 U	5.0 U	100 U	100 UDJ	330 U	5.0 U	40 U	10 UDJ	20 U	10 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		UJ	67 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	200 U	200 UDJ	500 U	5.0 U	100 U	100 UDJ	330 U	5.0 U	40 U	10 UDJ	20 U	10 U	5.0 U	5.0 U
Acetone	50*	J	67 U	9.3 J	4.2 J	10 UJ	10 U	10 U	400 U	400 UDJ	500 U	6.0 J	200 U	200 UDJ	330 U	10	80 U	20 UDJ	20 U	7.4 J	9.9 J	3.8 J
Benzene	1	J	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	0.81 J	8.0 U	2.0 UDJ	0.55 J	2.0 U	1.0 U	1.0 U
Bromodichloromethane	50	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
Bromoform	50*	UJ	6.7 U*	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U*	1.0 U	20 U	20 UDJ	33 U*	1.0 U	8.0 U	2.0 UDJ	2.0 U*	2.0 U	1.0 U	1.0 U
Bromomethane	5	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
Carbon disulfide		UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
Chlorobenzene	5	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
Chloroethane	5	J	2.8 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	3.6	1.0 U	1.0 U
Chloroform	7	UJ	6.7 U	1.0 U	1.0 U	0.44 J	0.48 J	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
Chloromethane		UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	DJ	330	1.0 U	1.0 U	2.2 J	1.0 U	180 D	210	490 DJ	260	76	110	100 DJ	260	120 D	190	96 DJ	85	81	18	20
cis-1,3-Dichloropropene	0.4	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
Cyclohexane		UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
Dibromochloromethane	50	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	3.9	5.8 J	5.0 DJ	2.8	2.0 U	1.0 U	1.0 U
Ethylbenzene	5	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
Methyl Acetate		UJ	67 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	100 U	100 UDJ	500 U	2.5 U	50 U	50 UDJ	330 U	2.5 U	20 U	5.0 UDJ	20 U	5.0 U	2.5 U	2.5 U
Methyl Cyclohexane		UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
Methylene Chloride	5	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.4	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	1.0 U
Styrene	5	UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U</															

Notes  
NYSDEC GA GW Standard - New York State Department of  
Environmental Conservation Groundwater Standard  
 - Concentration exceeds NYSDEC Class GA Standard  
U - Compound was not detected at the indicated concentration  
J - Compound detected below the reporting limit or  
reported concentration is estimated  
B - Analyte detected in the method blank and sample  
E - Estimated value  
D- Result of diluted sample shown  
M - Manual integrated compound  
\* - Laboratory control sample / duplicate exceeds control limits.  
¹-This is a duplicate sample from 4009-12  
²-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.



Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-27S 8/28/2014 Intermediate ug/L	4009-27S 12/9/2014 Intermediate ug/L	4009-27S 4/20/2015 Intermediate ug/L	4009-27S 7/29/2015 Intermediate ug/L	4009-27S 11/4/2015 Intermediate ug/L	4009-27S 3/28/2016 Intermediate ug/L	4009-27S 6/30/2016 Intermediate ug/L	4009-27S 9/29/2016 Intermediate ug/L	4009-27S 11/28/2016 Intermediate ug/L	4009-27S** 4/10/2017 Intermediate ug/L	4009-27I 2/20/2014 Intermediate ug/L	4009-27I 5/28/2014 Intermediate ug/L	4009-27I 8/28/2014 Intermediate ug/L	4009-27I 12/9/2014 Intermediate ug/L	4009-27I 4/20/2015 Intermediate ug/L	4009-27I 7/29/2015 Intermediate ug/L	4009-27I 11/4/2015 Intermediate ug/L	4009-27I 3/28/2016 Intermediate ug/L	4009-27I 6/30/2016 Intermediate ug/L	4009-27I 9/29/2016 Intermediate ug/L	4009-27I 11/28/2016 Intermediate ug/L
1,1,1-Trichloroethane	5	65 J	49	61	62	61	58	54	54	61	54	1.0 U	1.0 U	1.3 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	1.0 U	1.0
1,1,2,2-Tetrachloroethane	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
1,1,2-Trichloro-1,2,2-Trifluoroethane		2.3 J	2.6	3.3	3.3	3.5	2.9	2.7	2.4	2.6	3.0	1.0 U	0.37 J	1.0 UJ	1.0 U	1.0 U	0.31 J	1.0 U	0.39 J	0.40 J	1.0 U	1.0
1,1,2-Trichloroethane	1	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
1,1-Dichloroethane	5	2.2 J	1.9 J	2.6	2.7	2.4	2.4	2.1	2.0	2.5	2.4	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
1,1-Dichloroethene	5	5.6 J	4.6	6.2	10	7.0	4.5	5.0	4.9	8.8	5.1	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
1,2,3-Trimethylbenzene		1.0 UJ	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
1,2,4-Trichlorobenzene	5	1.0 UJ	2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
1,2,4-Trimethylbenzne	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
1,2-Dibromo-3-Chloropropane	0.04	1.0 UJ	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
1,2-Dichlorobenzene	3	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
1,2-Dichloroethane	0.6	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
1,2-Dichloropropane	1	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
1,3-Dichlorobenzene	3	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
1,4-Dichlorobenzene	3	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
2-Butanone (MEK)	50	10 UJ	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U*	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10
2-Hexanone	50*	5.0 UJ	20 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0
4-Methyl-2-pentanone (MIBK)		5.0 UJ	20 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0
Acetone	50*	8.1 UJ	20 U	8.1 J	10 U	10 U	10 U	10 U	10 U	10 U	20 U	5.8 J	10 U	7.9 J	10 U	9.3 J	10 U	10 U	10 U	10 U	10 U	10
Benzene	1	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	0.71 J	1.0 U	1.0 U	1.0 U	0.61 J	1.0 U	0.95 J	4.6	1.5
Bromodichloromethane	50	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Bromoform	50*	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Bromomethane	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Carbon disulfide		1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	0.86 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Carbon tetrachloride	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Chlorobenzene	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Chloroethane	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Chloroform	7	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Chloromethane		1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
cis-1,2-Dichloroethene	5	19 J	19	21	24	21	22	20	20	23	20	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
cis-1,3-Dichloropropene	0.4	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Cyclohexane		1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Dibromochloromethane	50	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Dichlorodifluoromethane	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Ethylbenzene	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Isopropylbenzne (Cumene)	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Methyl Acetate		2.5 UJ	20 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5
Methyl Cyclohexane		1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Methylene Chloride	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Methyl Tert Butyl Ether	10	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Styrene	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Tetrachloroethene	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Toluene	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	0.77 J	0.87 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
trans-1,2-Dichloroethene	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
trans-1,3-Dichloropropene	0.4	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Trichloroethene	5	24 J	22	25	28	25	24	23	22	24	22	1.4	1.1	1.2 J	0.34 J	1.0 U	1.9	1.0 U	1.4	0.84 J	1.0 U	1.0
Trichlorofluoromethane	5	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Vinyl chloride	2	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Xylenes, Total		2.0 UJ	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0
Total VOCs		126	99.1	127.2	130	120	114	108	105	119	107	7.20	1.47	11.1	1.97	10.17	2.21	0.61	1.79	3.49	4.60	1.50
Total VOCs (w/o Acteone or Methylene Chloride)		118	99.1	119.1	130	120	114	108	105	119	107	1.40	1.47	3.21	1.97	0.87	2.21	0.61	1.79	3.49	4.60	1.50

**Notes**  
NYSDEC GA GW Standard - New York State Department of  
Environmental Conservation Groundwater Standard  
- Concentration exceeds NYSDEC Class GA Standard  
U - Compound was not detected at the indicated concentration  
J - Compound detected below the reporting limit or  
reported concentration is estimated  
B - Analyte detected in the method blank and sample  
E - Estimated value  
D- Result of diluted sample shown  
M - Manual integrated compound  
\* - Laboratory control sample / duplicate exceeds control limits.  
¹-This is a duplicate sample from 4009-12  
²-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID	NYSDEC	6	4009-271**	DUP_01 <sup>2</sup>	4009-27D	4009-27D	4009-27D	4009-27D	4009-27D	4009-27D	4009-27D	4009-27D	4009-27D	4009-27D	4009-27D	4009-27D**	4009-28	4009-28	4009-28	4009-28	4009-28	4009-28
Sampling Date	GA	ate	4/10/2017	4/10/2017	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016	9/29/2016	11/28/2016	4/10/2017	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	7/29/2015
Groundwater Monitoring Zone	Standard		Intermediate		Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep
Units	ug/L		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	2.7	1.0 U	3.0	2.9	
1,1,2,2-Tetrachloroethane	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28 J	1.0 U	1.0 U
1,1-Dichloroethene	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.3 J	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	U	10 U *	10 U *	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U *	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U
Acetone	50*	U	5.3 J	6.4 J	9.8 J	4.8 J	8.0 J	10 U	7.1 J	10.0 U	10.0 U	10.0 U	10 U	10 U	10 U	3.9 J	7.9 J	3.7 J	6.8 J	10 U	6.1 J	10 U
Benzene	1		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 J	1.0 U
Carbon tetrachloride	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 J	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U
Methyl Cyclohexane		U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	0.60 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	U	1.0 U	1.0 U	1.0 U</																	

**Notes**  
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U - Compound was not detected at the indicated concentration  
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reported concentration is estimated  
B - Analyte detected in the method blank and sample  
E - Estimated value  
D- Result of diluted sample shown  
M - Manual integrated compound  
\* - Laboratory control sample / duplicate exceeds control limits.  
<sup>1</sup>-This is a duplicate sample from 4009-12  
<sup>2</sup>-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID	NYSDEC	4009-28	4009-28	4009-28	4009-28	4009-28	4009-28	4009-28	4009-29S	4009-29S	4009-29S	4009-29S	4009-29S	4009-29S	4009-29S	4009-29S	4009-29S	4009-29S	4009-29S	4009-29S**	4009-29I	4009-29I	4009-29I
Sampling Date	GA	11/4/2015	3/28/2016	6/30/2016	9/29/2016	11/28/2016	4/10/2017	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016	9/29/2016	11/28/2016	4/10/2017	2/20/2014	5/28/2014	8/28/2014	
Groundwater Monitoring Zone	Standard	Deep	Deep	Deep	Deep	Deep	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	2.3	1.9	2.5	2.5	2.5	1.0 U	710 D	650	1000 DJ	480	830	850	760	800 D	460	430	23	480	1700 D	1600	130	
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	12	10 U	17 U	8.7 J	7.3 J	20 U	7.1	20 U	1.0 U	2.0 U	5.0	21	25 U	2.0	
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	0.49 J	20 U	1.0 U	2.0 U	1.0 U	0.86 J	25 U	2.0	
1,1-Dichloroethane	5	1.0 U	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130 D	35	46 D	29	38	55	49	58	69	52	50	82	83	96	21
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	92	89	62 D	33	37	130	84	45	33	27	3.2	32	150 D	230	6.4
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	83 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	33 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	0.41 J	25 U	2.0	
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	10 U	100 U	100 UD	170 U	200 U	200 U	200 U	200 U	10 U	20 U	10 U*	10 U	250 U	20	
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	50 UD	170 U	100 U	100 U	100 U	100 U	5.0 U	10 U	5.0 U	5.0 U	130 U	10	
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	50 UD	170 U	100 U	100 U	100 U	100 U	5.0 U	10 U	5.0 U	5.0 U	130 U	10	
Acetone	50*	10.0 U	10.0 U	10 U	10 U	10 U	9.3 J	6.0 J	100 U	100 UD	170 U	200 U	200 U	200 U	200 U	200 U	10 U	8.0 J	4.9 J	11	250 U	12	
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.9	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	98	2.7	0.59 J	25 U	41	
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	0.23 J	1.0 U	25 U	2.0	
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.6	25 U	2.0	
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.9	10 U	10 UD	17 U	20 U	20 U	20 U	1.5	20 U	1.0 U	2.0 U	2.1	5.0	25 U	2.0	
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.69 J	10 U	10 UD	17 U	20 U	20 U	20 U	0.49 J	20 U	1.0 U	2.0 U	1.0 U	1.1	25 U	1.1	
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	260 D	340	410 D	270	320	480	310	390 D	190	200	59	180	400 D	400	53	
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	10 U	10 UD	17 U	20 U	20 U	20 U	1.5	20 U	1.0 U	2.0 U	1.0 U	1.2	25 U	2.0	
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	25 U	25 UD	170 U	20 U	20 U	50 U	50 U	50 U	2.5 U	5.0 U	2.5 U	2.5 U	63 U	5.0	
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 UD	5.6 J*	20 U	20 U	20 U	0.58 J	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	1.2	
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	1.0 U	25 U	2.0	
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.95 J	10 U	10 UD	17 U	20 U	20 U	20 U									

**Notes**  
NYSDEC GA GW Standard - New York State Department of  
Environmental Conservation Groundwater Standard  
- Concentration exceeds NYSDEC Class GA Standard  
U - Compound was not detected at the indicated concentration  
J - Compound detected below the reporting limit or  
reported concentration is estimated  
B - Analyte detected in the method blank and sample  
E - Estimated value  
D- Result of diluted sample shown  
M - Manual integrated compound  
\* - Laboratory control sample / duplicate exceeds control limits.  
¹-This is a duplicate sample from 4009-12  
²-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID	NYSDEC GA	4	4009-29I 12/9/2014	4009-29I 4/20/2015	4009-29I 7/29/2015	4009-29I 11/4/2015	4009-29I 3/28/2016	4009-29I 6/30/2016	4009-29I 11/28/2016	4009-29I 4/10/2017	4009-29D 2/20/2014	4009-29D 5/28/2014	4009-29D 8/28/2014	4009-29D 12/9/2014	4009-29D 4/20/2015	4009-29D 7/29/2015	4009-29D 11/4/2015	4009-29D 3/28/2016	4009-29D 6/30/2016	4009-29D 9/29/2016	4009-29D 11/28/2016	4009-29D** 4/10/2017
Sampling Date	Standard	ate	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Deep ug/L	Deep ug/L	Deep ug/L	Deep ug/L	Deep ug/L	Deep ug/L	Deep ug/L	Deep ug/L	Deep ug/L	Deep ug/L	Deep ug/L	
Groundwater Monitoring Zone	Units																					
1,1,1-Trichloroethane	5	DJ	1100	1500	1700	1400	1400 D	1200	2.0 U	1000	1.0 U	80	1200 DJ	170	290	30	14	23	16	14	21	270
1,1,2,2-Tetrachloroethane	5	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2-Trichloro-1,2,2-Trifluoroethane		UD	15 J	15 J	40 U	40 U	40 U	14	15 J	2.0 U	1.0 U	1.1	14	2.9 J	3.6 J	1.0 U	1.0 U	0.40 J	1.0 U	1.0 U	4.2	
1,1,2-Trichloroethane	1	UD	40 U	40 U	40 U	40 U	0.57 J	25 U	2.0 U	0.6 J	1.0 U	1.0 U	0.65 J	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1-Dichloroethane	5	DJ	82	100	100	90	69	71	3.9	89	1.1	16	150 DJ	27	51	12	4.2	5.5	4.0	3.7	6.3	44
1,1-Dichloroethene	5	DJ	92	85	240	200	77	93	2.0 U	80	1.0 U	12	130 DJ	27	29	5.7	2.0	2.0	1.3	1.1	2.8	26
1,2,3-Trimethylbenzene		UD	200 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	29 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2,4-Trichlorobenzene	5	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2,4-Trimethylbenzne	5	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dibromo-3-Chloropropane	0.04	UD	80 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dibromoethane (Ethylene Dibromide)	5	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichlorobenzene	3	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichloroethane	0.6	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	0.72 J	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichloropropane	1	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,3,5-Trimethylbenzene (Mesitylene)	5	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,3-Dichlorobenzene	3	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,4-Dichlorobenzene	3	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
2-Butanone (MEK)	50	UD	400 U	400 U	400 U	400 U	10 U	250 U	20 U	10 U*	10 U	10 U	10 U	57 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U*	
2-Hexanone	50*		400 U	200 U	200 U	200 U	5.0 U	130 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	57 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
4-Methyl-2-pentanone (MIBK)		UD	400 U	200 U	200 U	200 U	5.0 U	130 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	57 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Acetone	50*	DJ	400 U	400 U	400 U	400 U	10 U	250 U	6.1 J	5.2 J	6.9 J	10 U	10 U	57 U	50 U	10 U	10 U	10 U	10 U	10 U	4.5 J	
Benzene	1	DJ	40 U	40 U	40 U	40 U	0.48 J	25 U	120	0.71 J	1.0 U	1.0 U	0.72 J	5.7 U	5.0 U	0.70 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromodichloromethane	50	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromoform	50*	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromomethane	5	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Carbon disulfide		UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Carbon tetrachloride	5	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chlorobenzene	5	UD	40 U	40 U	40 U	40 U	1.3	25 U	2.0 U	1.1	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chloroethane	5	UD	40 U	40 U	40 U	40 U	2.7	25 U	29	3.9	1.0 U	1.4	8.8 DJ	5.7 U	2.5 J	1.0 U	1.2	1.2	1.5	2.0	4.4	
Chloroform	7	DJ	40 U	40 U	40 U	40 U	0.77 J	25 U	2.0 U	0.67 J	1.0 U	1.0 U	0.83 J	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chloromethane		UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,2-Dichloroethene	5	DJ	330	380	530	410	420 D	340	41	330	1.4	25	400 DJ	150	210	37	8.0	9.9	5.7	5.4	9.5	130
cis-1,3-Dichloropropene	0.4	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Cyclohexane		UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Dibromochloromethane	50	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Dichlorodifluoromethane	5	UD	40 U	40 U	40 U	40 U	1.9	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Ethylbenzene	5	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Isopropylbenzne (Cumene)	5	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Methyl Acetate		UD	400 U	100 U	100 U	100 U	2.5 U	63 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	57 U	13 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	
Methyl Cyclohexane		UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Methylene Chloride	5	DJ	14 J*	18 J	40 U	40 U	0.60 J	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 J*	5.0 U	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	
Methyl Tert Butyl Ether	10	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Styrene	5	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Tetrachloroethene	5	UD	40 U	40 U	40 U	40 U	1.8	25 U	2.0 U	1.4	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Toluene	5	DJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.7 J	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
trans-1,2-Dichloroethene	5	UD	40 U	40 U	40 U	40 U	1.3	25 U	2.0 U	1.2	1.0 U	1.0 U	1.8	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
trans-1,3-Dichloropropene	0.4	UD	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Trichloroethene	5	DJ	360	410	550	480	450 D	370	2.0	340 J	1.8	17	400 DJ	26	20	0.78 J	0.94 J	3.3	2.0	1.8	1.7	61
Trichlorofluoromethane	5	UD	40 U	40 U	40 U	40 U	0.92 J	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Vinyl chloride																						

**Notes**  
NYSDEC GA GW Standard - New York State Department of  
Environmental Conservation Groundwater Standard  
- Concentration exceeds NYSDEC Class GA Standard  
U - Compound was not detected at the indicated concentration  
J - Compound detected below the reporting limit or  
reported concentration is estimated  
B - Analyte detected in the method blank and sample  
E - Estimated value  
D- Result of diluted sample shown  
M - Manual integrated compound  
\* - Laboratory control sample / duplicate exceeds control limits.  
¹-This is a duplicate sample from 4009-12  
²-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID	NYSDEC GA	4009-30 4/20/2015	4009-30 7/29/2015	4009-30 11/4/2015	4009-30 3/28/2016	4009-30 6/30/2016	4009-30 9/29/2016	4009-30 11/28/2016	4009-30 4/10/2017	4009-30A 4/20/2015	4009-30A 7/29/2015	4009-30A 11/4/2015	4009-30A 3/28/2016	4009-30A 6/30/2016	4009-30A 9/29/2016	4009-30A 11/28/2016	4009-30A 4/10/2017	Well 1-1 4/20/2015	Well 1-1 7/29/2015	Well 1-1 11/4/2015	Well 1-1 3/28/2016	Well 1- 6/30/201
Sampling Date	Standard	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep	Deep
Groundwater Monitoring Zone	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Units																						
1,1,1-Trichloroethane	5	0.98 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	220	240	350	250	210
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.1	5.0 U	5.0 U	4.3 J	4.3
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
1,1-Dichloroethane	5	0.86 J	0.82 J	0.52 J	0.91 J	0.65 J	0.52 J	0.93 J	1.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.51 J	0.63 J	1.0 U	15	18	28	22	14
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10	30	41	16	5.0
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	40 U	50 U	50 U	50 U	50
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	25 U	25 U	25 U	25
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	25 U	25 U	25 U	25
Acetone	50*	7.0 J	10 U	10 U	10 U	7.3 J	4.9 J	10 U	7.2 J	6.9 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.6 J	40 U	50 U	50 U	50
Benzene	1	1.0 U	1.0 U	0.44 J	1.0 U	0.44 J	0.56 J	1.0	1.0 U	0.75 J	2.5	0.60 J	2.2	0.43 J	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	39	66	82	68	52
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	13 U	13 U	13 U	13
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	0.49 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.9 B	5.0
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	41	64	81	59	56
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	8.0 U	10 U	10 U	10 U	10
Total VOCs		8.84	0.82	0.96	1.40	8.39	5.98	1.93	8.50	7.65	2.50	0.60	2.20	0.43	0.51	0.63	5.60	329	418	582	425	336
Total VOCs (w/o Acteone or Methylene Chloride)		1.84	0.82	0.96	0.91	1.09	1.08	1.93	1.30	0.75	2.50	0.60	2.20	0.43	0.51	0.63	0.00	329	418	582	419	336

**Notes**  
NYSDEC GA GW Standard - New York State Department of  
Environmental Conservation Groundwater Standard  
- Concentration exceeds NYSDEC Class GA Standard  
U - Compound was not detected at the indicated concentration  
J - Compound detected below the reporting limit or  
reported concentration is estimated  
B - Analyte detected in the method blank and sample  
E - Estimated value  
D- Result of diluted sample shown  
M - Manual integrated compound  
\* - Laboratory control sample / duplicate exceeds control limits.  
<sup>1</sup>-This is a duplicate sample from 4009-12  
<sup>2</sup>-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 2

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	6	Well 1-1 9/29/2016 Deep ug/L	Well 1-1 11/28/2016 Deep ug/L	Well 1-1 4/10/2017 Deep ug/L
1,1,1-Trichloroethane	5		310	220	NS
1,1,2,2-Tetrachloroethane	5	U	5.0 U	5.0 U	NS
1,1,2-Trichloro-1,2,2-Trifluoroethane		J	6.3	5.0 U	NS
1,1,2-Trichloroethane	1	U	5.0 U	5.0 U	NS
1,1-Dichloroethane	5		22	18	NS
1,1-Dichloroethene	5	U	20	31	NS
1,2,3-Trimethylbenzene		U	5.0 U	5.0 U	NS
1,2,4-Trichlorobenzene	5	U	5.0 U	5.0 U	NS
1,2,4-Trimethylbenzne	5	U	5.0 U	5.0 U	NS
1,2-Dibromo-3-Chloropropane	0.04	U	5.0 U	5.0 U	NS
1,2-Dibromoethane (Ethylene Dibromide)	5	U	5.0 U	5.0 U	NS
1,2-Dichlorobenzene	3	U	5.0 U	5.0 U	NS
1,2-Dichloroethane	0.6	U	5.0 U	5.0 U	NS
1,2-Dichloropropane	1	U	5.0 U	5.0 U	NS
1,3,5-Trimethylbenzene (Mesitylene)	5	U	5.0 U	5.0 U	NS
1,3-Dichlorobenzene	3	U	5.0 U	5.0 U	NS
1,4-Dichlorobenzene	3	U	5.0 U	5.0 U	NS
2-Butanone (MEK)	50	U	50 U	50 U	NS
2-Hexanone	50*	U	25 U	25 U	NS
4-Methyl-2-pentanone (MIBK)		U	25 U	25 U	NS
Acetone	50*	U	50 U	50 U	NS
Benzene	1	U	5.0 U	5.0 U	NS
Bromodichloromethane	50	U	5.0 U	5.0 U	NS
Bromoform	50*	U	5.0 U	5.0 U	NS
Bromomethane	5	U	5.0 U	5.0 U	NS
Carbon disulfide		U	5.0 U	5.0 U	NS
Carbon tetrachloride	5	U	5.0 U	5.0 U	NS
Chlorobenzene	5	U	5.0 U	5.0 U	NS
Chloroethane	5	U	5.0 U	5.0 U	NS
Chloroform	7	U	5.0 U	5.0 U	NS
Chloromethane		U	5.0 U	5.0 U	NS
cis-1,2-Dichloroethene	5		77	62	NS
cis-1,3-Dichloropropene	0.4	U	5.0 U	5.0 U	NS
Cyclohexane		U	5.0 U	5.0 U	NS
Dibromochloromethane	50	U	5.0 U	5.0 U	NS
Dichlorodifluoromethane	5	U	5.0 U	5.0 U	NS
Ethylbenzene	5	U	5.0 U	5.0 U	NS
Isopropylbenzne (Cumene)	5	U	5.0 U	5.0 U	NS
Methyl Acetate		U	13 U	13 U	NS
Methyl Cyclohexane		U	5.0 U	5.0 U	NS
Methylene Chloride	5	U	5.0 U	5.0 U	NS
Methyl Tert Butyl Ether	10	U	5.0 U	5.0 U	NS
Styrene	5	U	5.0 U	5.0 U	NS
Tetrachloroethene	5	U	5.0 U	5.0 U	NS
Toluene	5	U	5.0 U	5.0 U	NS
trans-1,2-Dichloroethene	5	U	5.0 U	5.0 U	NS
trans-1,3-Dichloropropene	0.4	U	5.0 U	5.0 U	NS
Trichloroethene	5		69	66	NS
Trichlorofluoromethane	5	U	5.0 U	5.0 U	NS
Vinyl chloride	2	U	5.0 U	5.0 U	NS
Xylenes, Total		U	10 U	10 U	NS
Total VOCs			504	397	
Total VOCs (w/o Acteone or Methylene Chloride)			504	397	

**Notes**  
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard  
 - Concentration exceeds NYSDEC Class GA Standard  
U - Compound was not detected at the indicated concentration  
J - Compound detected below the reporting limit or reported concentration is estimated  
B - Analyte detected in the method blank and sample  
E - Estimated value  
D- Result of diluted sample shown  
M - Manual integrated compound  
\* - Laboratory control sample / duplicate exceeds control limits.  
<sup>1</sup>-This is a duplicate sample from 4009-12  
<sup>2</sup>-This is a duplicate sample from 4009-271  
\*\*-Revised results due to mislabeling 27 and 29 clusters in field.



Table 5-3 Summary of Town of Vestal Municipal Well Sampling Results  
Remedial Site Optimization  
Vestal Water Supply Site  
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard	Well 1-2A Influent 7/22/2014	Well 1-2A Influent 7/30/2014	Well 1-2A Influent 8/18/2014	Well 1-2A Influent 8/28/2014	Well 1-2A Influent 9/29/2014	Well 1-2A Influent 9/30/2014	Well 1-2A Influent 10/21/2014	Well 1-2A Influent 10/28/2014	Well 1-2A Influent 11/11/2014	Well 1-2A Influent 11/24/2014	Well 1-2A Influent 12/9/2014	Well 1-2A Influent 12/18/2014	Well 1-2A Influent 1/20/2015	Well 1-2A Influent 1/29/2015	Well 1-2A Influent 2/25/2015**	Well 1-2A Influent 2/25/2015**	Well 1-2A Influent 3/12/2015**	Well 1-2A Influent 3/19/2015**	Well 1-2A Influent 4/9/2015
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,1-Dichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,1-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,2,3-Trimethylbenzene		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	5.0 U	NA	NA	1.0 U	NS	NS	NS	NS	0.5 U
1,2,4-Trichlorobenzene	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,2,4-Trimethylbenzne	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	2.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
1,2-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,2-Dichloropropane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,3-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,4-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
2-Butanone (MEK)	50	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	NS	NS	NS	NA
2-Hexanone	50*	NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U*	10 U	NA	NA	5.0 U	NS	NS	NS	NS	NA
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U	10 U	NA	NA	5.0 U	NS	NS	NS	NS	NA
Acetone	50*	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	NS	NS	NS	NA
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Bromodichloromethane	50	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Bromoform	50*	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Bromomethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Carbon disulfide		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Chloroform	7	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Chloromethane		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Dibromochloromethane	50	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U*	NA	NA	1.0 U*	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Dichlorodifluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U*	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Isopropylbenzne (Cumene)	5	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Methyl Acetate		NA	NA	NA	2.5 U	NA U	NA	2.5 U	NA	NA	2.5 U	10 U	NA	NA	2.5 U	NS	NS	NS	NS	NA
Methyl Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Methyl Tert Butyl Ether	10	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Tetrachloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Toluene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Trichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Trichlorofluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Vinyl chloride	2	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Xylenes, Total		0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U	NS	NS	NS	NS	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0					0

**Notes**  
NYSDEC GA GW Standard - New York State Department  
of Environmental Conservation Groundwater Standard  
█ - Concentration exceeds NYSDEC Class GA Standard  
NA - Not Analyzed  
NS - Not Sampled  
U - Compound was not detected at the indicated concentration  
\* LCS or LCSD exceeds the control limits  
\*\* Well 1-2A was frozen and unable to be sampled

Table 5-3 Summary of Town of Vestal Municipal Well Sampling Results  
Remedial Site Optimization  
Vestal Water Supply Site  
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard	Well 1-2A Influent 4/20/2015	Well 1-2A Influent 5/6/2015	Well 1-2A Influent 5/12/2015	Well 1-2A Influent 6/9/2015	Well 1-2A Influent 6/25/2015	Well 1-2A Influent 7/29/2015	Well 1-2A Influent 8/11/2015	Well 1-2A Influent 8/28/2015	Well 1-2A Influent 9/15/2015	Well 1-2A Influent 9/24/2015	Well 1-2A Influent 10/12/2015	Well 1-2A Influent 11/4/2015	Well 1-2A Influent 11/10/2015	Well 1-2A Influent 12/21/2015	Well 1-2A Influent 1/19/2016	Well 1-2A Influent 1/27/2016	Well 1-2A Influent 2/16/2016	Well 1-2A Influent 2/26/2016	Well 1-2A Influent 3/22/2016
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,1,2-Trichloroethane	1	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	2.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dichlorobenzene	3	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
2-Butanone (MEK)	50	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA
2-Hexanone	50*	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	10.0 U	NA	5.0 U	NA	5.0 U	NA
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	10.0 U	NA	5.0 U	NA	5.0 U	NA
Acetone	50*	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA
Benzene	1	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Bromodichloromethane	50	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Bromoform	50*	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Bromomethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Carbon disulfide		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Carbon tetrachloride	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chlorobenzene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chloroethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chloroform	7	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Chloromethane		1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Cyclohexane		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Dibromochloromethane	50	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Dichlorodifluoromethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Ethylbenzene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Methyl Acetate		2.5 U	2.5 U	NA	NA	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U	NA	10 U	NA	2.5 U	NA	2.5 U	NA
Methyl Cyclohexane		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Styrene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Tetrachloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Toluene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Trichloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Trichlorofluoromethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Vinyl chloride	2	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Xylenes, Total		2.0 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Notes**  
NYSDEC GA GW Standard - New York State Department  
of Environmental Conservation Groundwater Standard  
█ - Concentration exceeds NYSDEC Class GA Standard  
NA - Not Analyzed  
NS - Not Sampled  
U - Compound was not detected at the indicated concentration  
\* LCS or LCSD exceeds the control limits  
\*\* Well 1-2A was frozen and unable to be sampled



Table 5-3 Summary of Town of Vestal Municipal Well Sampling Results  
Remedial Site Optimization  
Vestal Water Supply Site  
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard	Well 1-2A Influent 3/28/2016	Well 1-2A Influent 4/20/2016	Well 1-2A Influent 4/22/2016	Well 1-2A Influent 5/20/2016	Well 1-2A Influent 5/23/2016	Well 1-2A Influent 6/21/2016	Well 1-2A Influent 6/22/2016	Well 1-2A Influent 7/20/2016	Well 1-2A Influent 7/28/2016	Well 1-2A Influent 8/16/2016	Well 1-2A Influent 8/18/2016	Well 1-2A Influent 9/6/2016	Well 1-2A Influent 9/15/2016	Well 1-2A Influent 10/18/2016	Well 1-2A Influent 10/31/2016	Well 1-2A Influent 11/8/2016	Well 1-2A Influent 11/28/2016	Well 1-2A Influent 12/16/2016	Well 1-2A Influent 12/29/2016
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,1,2-Trichloroethane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloropropane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
2-Butanone (MEK)	50	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
2-Hexanone	50*	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
Acetone	50*	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
Benzene	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Bromodichloromethane	50	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromoform	50*	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromomethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon disulfide		1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon tetrachloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroform	7	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Chloromethane		1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NA	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Dibromochloromethane	50	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NA	1.0 U
Dichlorodifluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Ethylbenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Acetate		2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	NA	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U
Methyl Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Methylene Chloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Styrene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Tetrachloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Toluene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichlorofluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Vinyl chloride	2	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Xylenes, Total		2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Notes**  
NYSDEC GA GW Standard - New York State Department  
of Environmental Conservation Groundwater Standard  
█ - Concentration exceeds NYSDEC Class GA Standard  
NA - Not Analyzed  
NS - Not Sampled  
U - Compound was not detected at the indicated concentration  
\* LCS or LCSD exceeds the control limits  
\*\* Well 1-2A was frozen and unable to be sampled

Table 5-3 Summary of Town of Vestal Municipal Well Sampling Results  
Remedial Site Optimization  
Vestal Water Supply Site  
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard	Well 1-2A Influent 1/13/2017	Well 1-2A Influent 1/31/2017	Well 1-2A Influent 2/7/2017	Well 1-2A Influent 2/27/2017	Well 1-2A Influent 3/7/2017	Well 1-2A Influent 3/23/2017	Well 1-3 Influent 7/22/2014	Well 1-3 Influent 7/30/2014	Well 1-3 Influent 8/18/2014	Well 1-3 Influent 8/28/2014	Well 1-3 Influent 9/29/2014	Well 1-3 Influent 9/30/2014	Well 1-3 Influent 10/21/2014	Well 1-3 Influent 10/28/2014	Well 1-3 Influent 11/11/2014	Well 1-3 Influent 11/24/2014	Well 1-3 Influent 12/9/2014	Well 1-3 Influent 12/18/2014	Well 1-3 Influent 1/20/2015
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,1-Dichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,1-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,2,3-Trimethylbenzene		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	5.0 U	NA	NA
1,2,4-Trichlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,2,4-Trimethylbenzne	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	2.0 U	NA	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA
1,2-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,2-Dichloropropane	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,3-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,4-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
2-Butanone (MEK)	50	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA
2-Hexanone	50*	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U*	10 U	NA	NA
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U	10 U	NA	NA
Acetone	50*	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Bromodichloromethane	50	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA
Bromoform	50*	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA
Bromomethane	5	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Carbon disulfide		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	0.5 U	1.0 U	1 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Chloroform	7	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA
Chloromethane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	5 U	0.5 U
Cyclohexane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA
Dibromochloromethane	50	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U*	NA	NA	1.0 U*	1.0 U	NA	NA
Dichlorodifluoromethane	5	0.5 U	1.0 U	0.5 U	1.0 U*	0.5 U	1.0 U	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U*	1.0 U	0.5 U	0.5 U
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Isopropylbenzne (Cumene)	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	0.5 U
Methyl Acetate		NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	NA	NA	2.5 U	NA U	NA	2.5 U	NA	NA	2.5 U	10 U	NA	NA
Methyl Cyclohexane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Methyl Tert Butyl Ether	10	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Tetrachloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Toluene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Trichlorofluoromethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Vinyl chloride	2	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Xylenes, Total		0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Notes**  
NYSDEC GA GW Standard - New York State Department  
of Environmental Conservation Groundwater Standard  
█ - Concentration exceeds NYSDEC Class GA Standard  
NA - Not Analyzed  
NS - Not Sampled  
U - Compound was not detected at the indicated concentration  
\* LCS or LCSD exceeds the control limits  
\*\* Well 1-2A was frozen and unable to be sampled

Table 5-3 Summary of Town of Vestal Municipal Well Sampling Results  
Remedial Site Optimization  
Vestal Water Supply Site  
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard	Well 1-3 Influent 1/29/2015	Well 1-3 Influent 2/25/2015	Well 1-3 Influent 2/25/2015	Well 1-3 Influent 3/12/2015	Well 1-3 Influent 3/19/2015	Well 1-3 Influent 4/9/2015	Well 1-3 Influent 4/20/2015	Well 1-3 Influent 5/6/2015	Well 1-3 Influent 5/12/2015	Well 1-3 Influent 6/9/2015	Well 1-3 Influent 6/25/2015	Well 1-3 Influent 7/29/2015	Well 1-3 Influent 8/11/2015	Well 1-3 Influent 8/28/2015	Well 1-3 Influent 9/15/2015	Well 1-3 Influent 9/24/2015	Well 1-3 Influent 10/12/2015	Well 1-3 Influent 11/4/2015	Well 1-3 Influent 11/10/2015
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA
1,1,2-Trichloroethane	1	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
1,1-Dichloroethane	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
1,1-Dichloroethene	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA
1,2,4-Trichlorobenzene	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
1,2,4-Trimethylbenzene	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA
1,2-Dichlorobenzene	3	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
1,2-Dichloropropane	1	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
2-Butanone (MEK)	50	10 U	NS	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
2-Hexanone	50*	5.0 U	NS	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA
4-Methyl-2-pentanone (MIBK)		5.0 U	NS	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA
Acetone	50*	10 U	NS	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Benzene	1	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Bromodichloromethane	50	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA
Bromoform	50*	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA
Bromomethane	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	NA
Carbon disulfide		1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA
Carbon tetrachloride	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	0.5 U
Chlorobenzene	5	1.0 U	NS	1.0 U	NA	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Chloroethane	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Chloroform	7	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA
Chloromethane		1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
cis-1,2-Dichloroethene	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Cyclohexane		1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA
Dibromochloromethane	50	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Dichlorodifluoromethane	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Ethylbenzene	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Isopropylbenzne (Cumene)	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Methyl Acetate		2.5 U	NS	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	NA	NA	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U	NA
Methyl Cyclohexane		1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA
Methylene Chloride	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	1.0 U	NS	1.0 U	1 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Styrene	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Tetrachloroethene	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Toluene	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Trichloroethene	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Trichlorofluoromethane	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Vinyl chloride	2	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Xylenes, Total		2.0 U	NS	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	2.0 U	0.5 U
Total VOCs		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Notes**  
NYSDEC GA GW Standard - New York State Department  
of Environmental Conservation Groundwater Standard  
█ - Concentration exceeds NYSDEC Class GA Standard  
NA - Not Analyzed  
NS - Not Sampled  
U - Compound was not detected at the indicated concentration  
\* LCS or LCSD exceeds the control limits  
\*\* Well 1-2A was frozen and unable to be sampled

Table 5-3 Summary of Town of Vestal Municipal Well Sampling Results  
Remedial Site Optimization  
Vestal Water Supply Site  
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard	Well 1-3 Influent 12/21/2015	Well 1-3 Influent 1/19/2016	Well 1-3 Influent 1/27/2016	Well 1-3 Influent 2/16/2016	Well 1-3 Influent 2/26/2016	Well 1-3 Influent 3/22/2016	Well 1-3 Influent 3/28/2016	Well 1-3 Influent 4/20/2016	Well 1-3 Influent 4/22/2016	Well 1-3 Influent 5/20/2016	Well 1-3 Influent 5/23/2016	Well 1-3 Influent 6/21/2016	Well 1-3 Influent 6/22/2016	Well 1-3 Influent 7/20/2016	Well 1-3 Influent 7/28/2016	Well 1-3 Influent 8/16/2016	Well 1-3 Influent 8/18/2016	Well 1-3 Influent 9/6/2016	Well 1-3 Influent 9/15/2016
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
1,1,2,2-Tetrachloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0
1,1,2-Trichloroethane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
1,1-Dichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
1,1-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
1,2,3-Trimethylbenzene		5.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0
1,2,4-Trichlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
1,2,4-Trimethylbenzne	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
1,2-Dibromo-3-Chloropropane	0.04	2.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0
1,2-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
1,2-Dichloroethane	0.6	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
1,2-Dichloropropane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
1,3-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
1,4-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
2-Butanone (MEK)	50	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	NA	10 U	NA	10
2-Hexanone	50*	10.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA	5.0
4-Methyl-2-pentanone (MIBK)		10.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA	5.0
Acetone	50*	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	NA	10 U	NA	10
Benzene	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Bromodichloromethane	50	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0
Bromoform	50*	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0
Bromomethane	5	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0
Carbon disulfide		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0
Carbon tetrachloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Chlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Chloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Chloroform	7	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0
Chloromethane		1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
cis-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
cis-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0
Dibromochloromethane	50	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Dichlorodifluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Ethylbenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Isopropylbenzne (Cumene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Methyl Acetate		10 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	NA	NA	2.5 U	NA	2.5 U	NA	2.5
Methyl Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0
Methylene Chloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Methyl Tert Butyl Ether	10	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Styrene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Tetrachloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Toluene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
trans-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
trans-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Trichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Trichlorofluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Vinyl chloride	2	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0
Xylenes, Total		2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Notes**  
NYSDEC GA GW Standard - New York State Department  
of Environmental Conservation Groundwater Standard  
█ - Concentration exceeds NYSDEC Class GA Standard  
NA - Not Analyzed  
NS - Not Sampled  
U - Compound was not detected at the indicated concentration  
\* LCS or LCSD exceeds the control limits  
\*\* Well 1-2A was frozen and unable to be sampled

Table 5-3 Summary of Town of Vestal Municipal Well Sampling Results  
Remedial Site Optimization  
Vestal Water Supply Site  
Site Number 7-04-009A

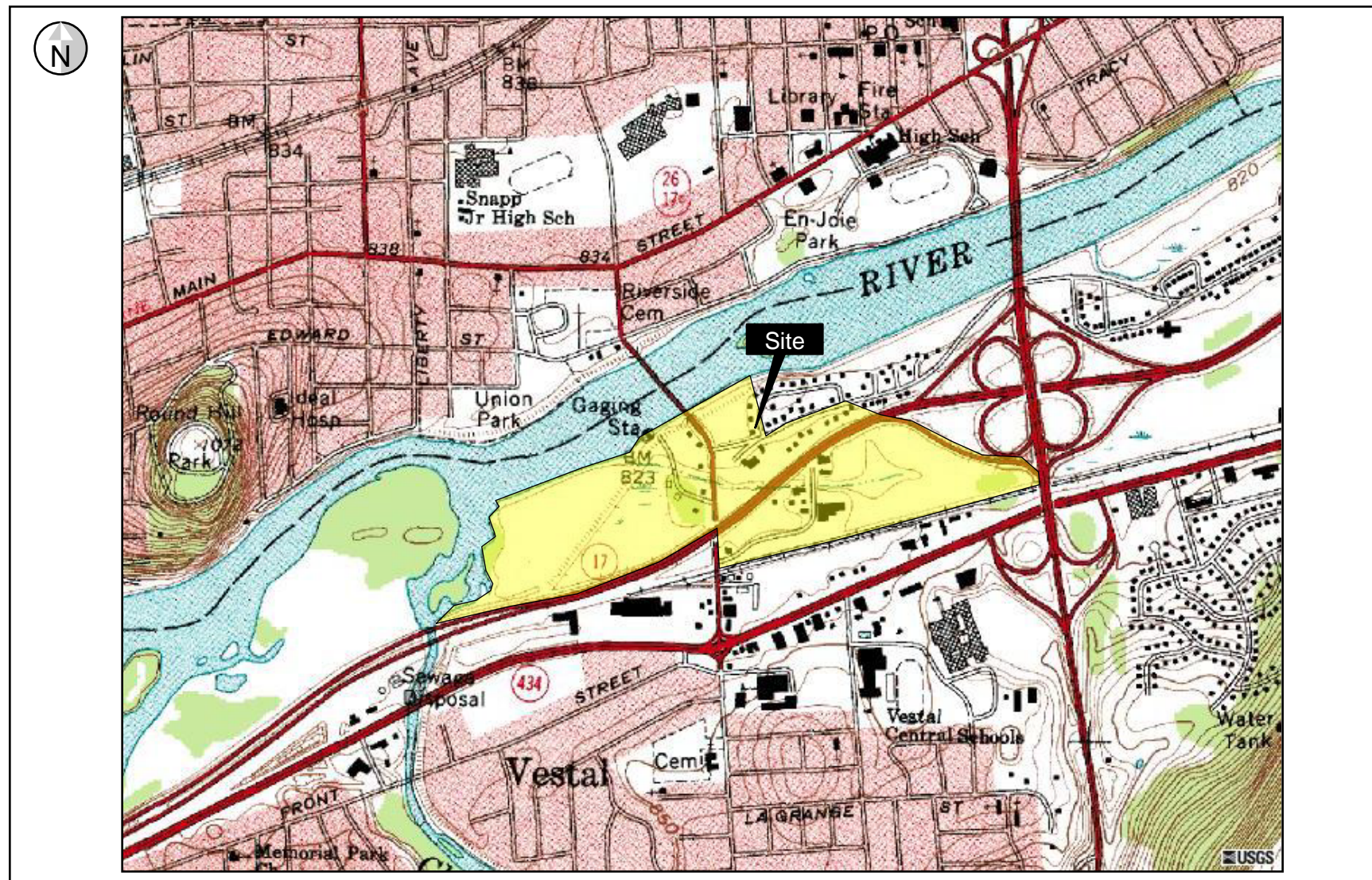
Sample ID	NYSDEC GA Standard ug/L	6	Well 1-3 Influent 10/18/2016 ug/L	Well 1-3 Influent 10/31/2016 ug/L	Well 1-3 Influent 11/8/2016 ug/L	Well 1-3 Influent 11/28/2016 ug/L	Well 1-3 Influent 12/16/2016 ug/L	Well 1-3 Influent 12/29/2016 ug/L	Well 1-3 Influent 1/13/2017 ug/L	Well 1-3 Influent 1/31/2017 ug/L	Well 1-3 Influent 2/7/2017 ug/L	Well 1-3 Influent 2/27/2017 ug/L	Well 1-3 Influent 3/7/2017 ug/L	Well 1-3 Influent 3/23/2017 ug/L
1,1,1-Trichloroethane	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,1,2-Trichloroethane	1	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethane	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethene	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2,4-Trichlorobenzene	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,4-Trimethylbenzne	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dichlorobenzene	3	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloroethane	0.6	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloropropane	1	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,4-Dichlorobenzene	3	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
2-Butanone (MEK)	50	U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U*	NA	10 U
2-Hexanone	50*	U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
4-Methyl-2-pentanone (MIBK)		U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
Acetone	50*	U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
Benzene	1	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Bromodichloromethane	50	U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromoform	50*	U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromomethane	5	U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon disulfide		U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon tetrachloride	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chlorobenzene	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroethane	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroform	7	U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Chloromethane		U	0.5 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U*	NA	1.0 U
cis-1,2-Dichloroethene	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.4	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Cyclohexane		U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Dibromochloromethane	50	U	0.5 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Dichlorodifluoromethane	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Ethylbenzene	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Isopropylbenzne (Cumene)	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Acetate		U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U
Methyl Cyclohexane		U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Methylene Chloride	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Styrene	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Tetrachloroethene	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Toluene	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,2-Dichloroethene	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,3-Dichloropropene	0.4	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichloroethene	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichlorofluoromethane	5	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Vinyl chloride	2	U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U*	0.5 U	1.0 U
Xylenes, Total		U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U
Total VOCs			0	0	0	0	0	0	0	0	0	0	0	0

**Notes**  
NYSDEC GA GW Standard - New York State Department  
of Environmental Conservation Groundwater Standard  
█ - Concentration exceeds NYSDEC Class GA Standard  
NA - Not Analyzed  
NS - Not Sampled  
U - Compound was not detected at the indicated concentration  
\* LCS or LCSD exceeds the control limits  
\*\* Well 1-2A was frozen and unable to be sampled

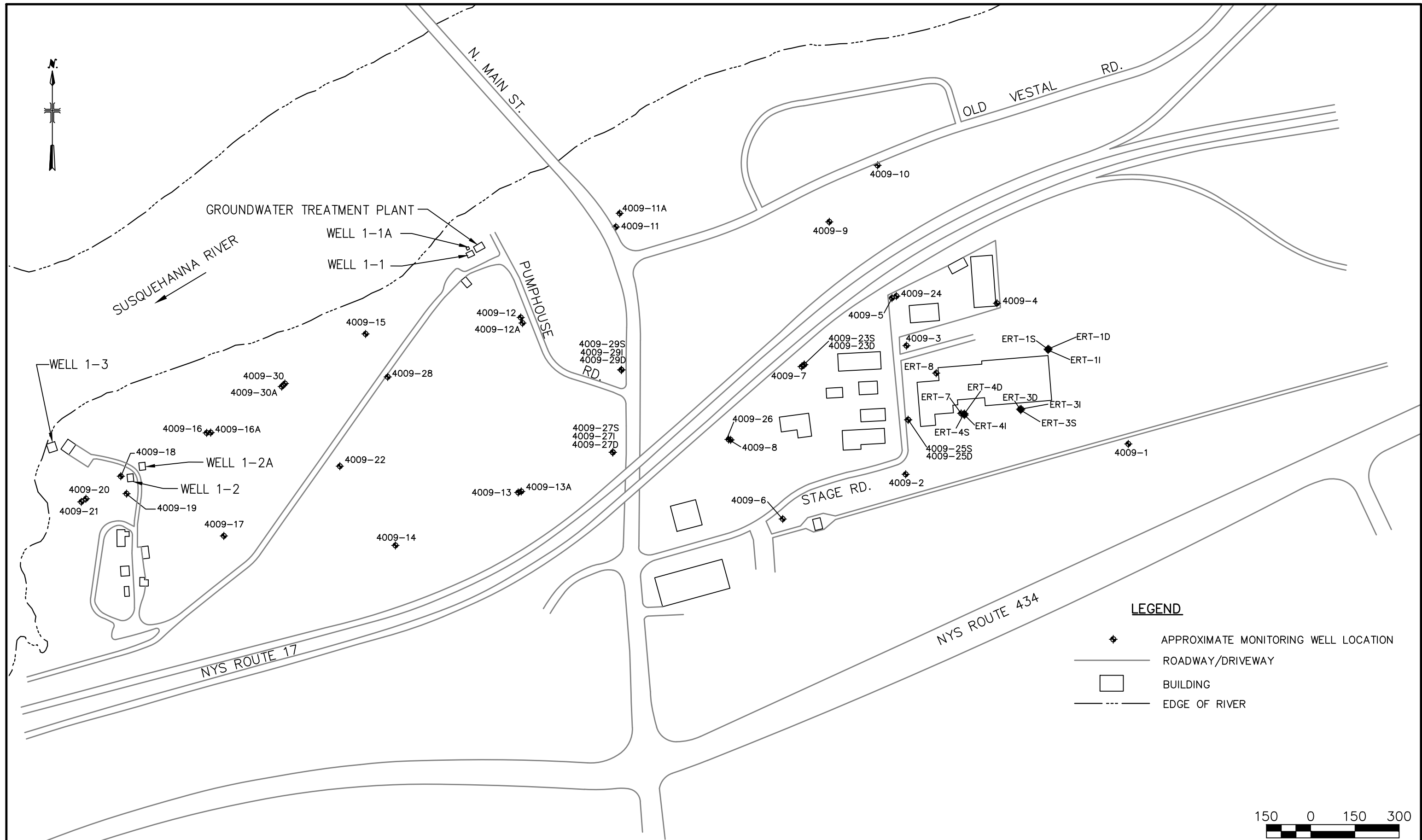
FIGURES







Source: USGS 7.5-minute Series Topographic Quadrangle, Endicott (1988).



SOURCE: BASE MAP DIGITIZED USING AERIAL ORTHIMAGERY FROM NYS GIS CLEARINGHOUSE, DATED 2011



NYSDEC STANDBY CONTRACT NO. D007618-7  
 NYSDEC SITE NO. 7-04-009  
**VESTAL WATER SUPPLY**  
 VESTAL, NEW YORK

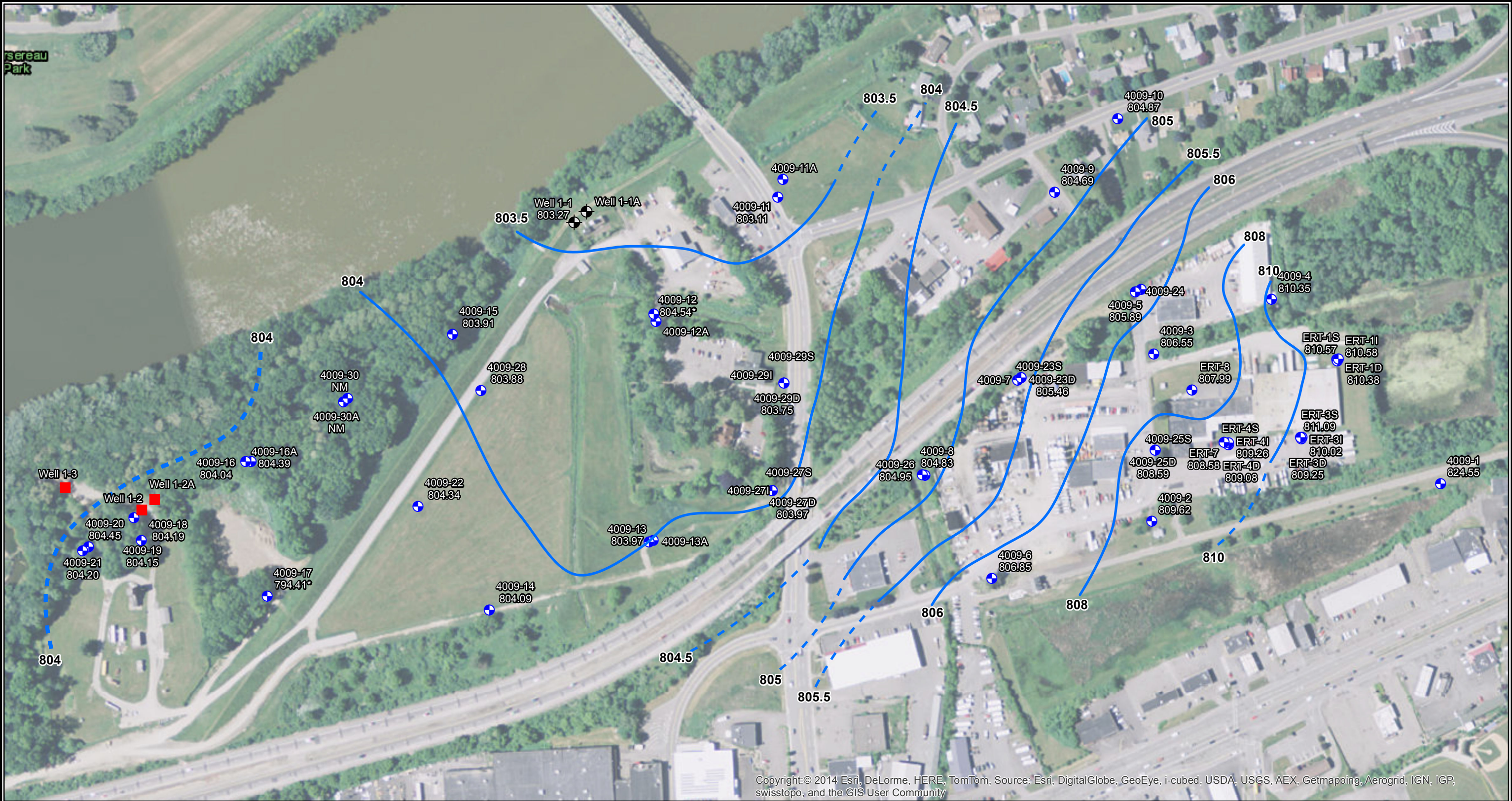
## MONITORINIG WELL LOCATION MAP

SCALE: AS SHOWN

MARCH 2017  
**FIGURE 5-1**







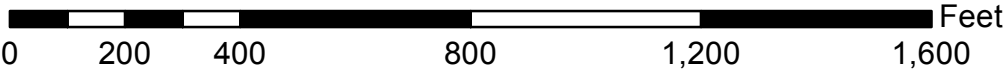
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**Legend**

-  Pumping/Extraction Well
-  Supply Well
-  Monitoring Well
-  Groundwater Contour (ft amsl)
- 4009-14 Monitoring Well ID
- 805.91 Groundwater Elevation (ft amsl)



\*Indicates groundwater elevation not used in contouring.



NYSDEC STANDBY CONTRACT NO. D007618-7  
NYSDEC SITE NO. 7-04-009  
VESTAL WATER SUPPLY  
VESTAL, NEW YORK

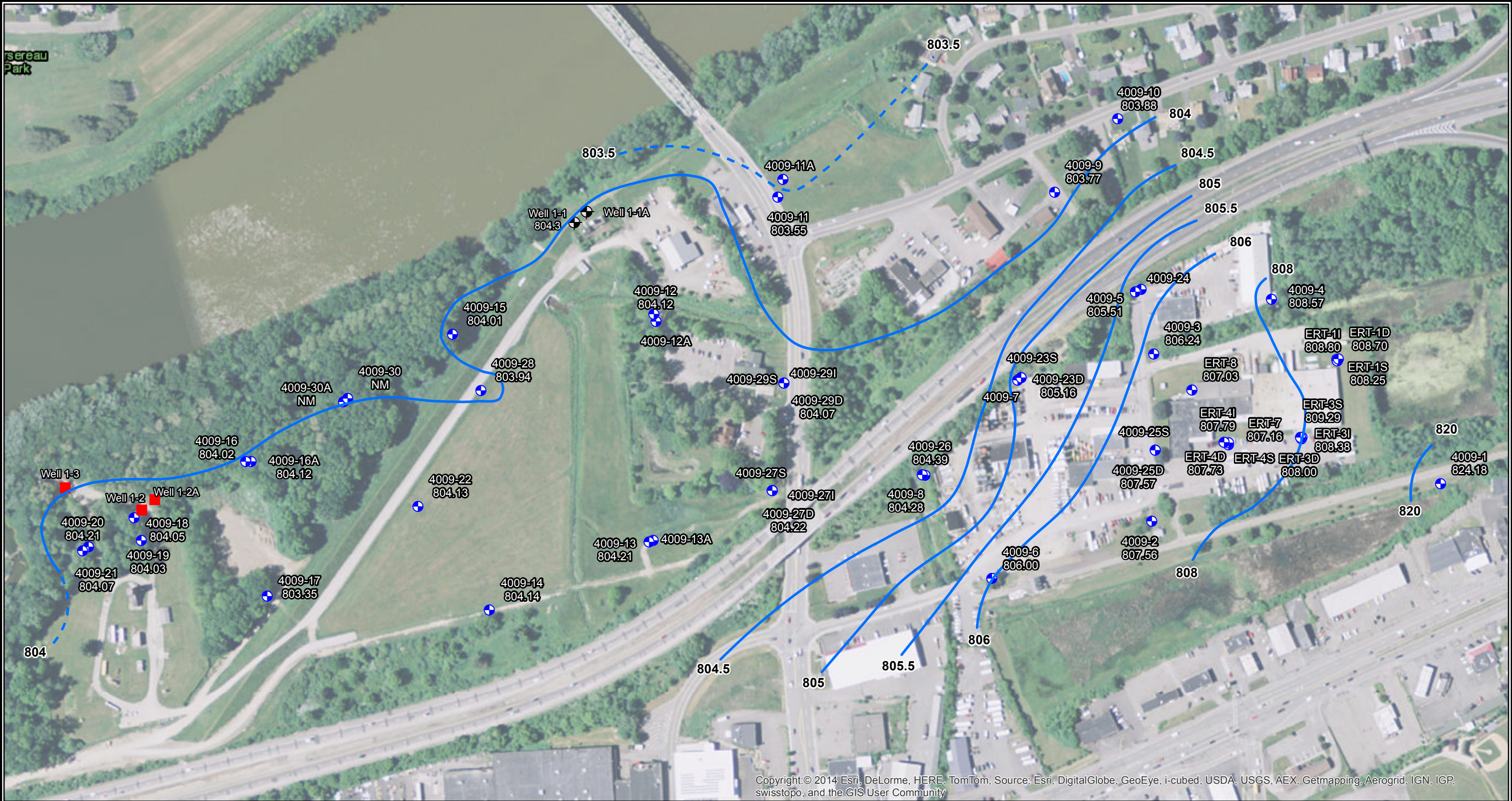
**DEEP POTENTIOMETRIC CONTOUR MAP  
WITH WELL 1-1A ACTIVE  
FEBRUARY 2014**



FIGURE  
**5-2**

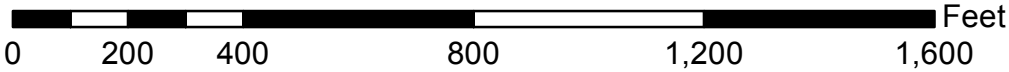


Document Path: G:\GISMOD\00266401.0000\GIS\PotMap\_Nov2014.mxd



**Legend**

- Pumping/Extraction Well
- Supply Well
- Approximate Monitoring Well Location
- Groundwater Contour (ft amsl)
- 4009-14 Monitoring Well ID
- 805.91 Groundwater Elevation (ft amsl)



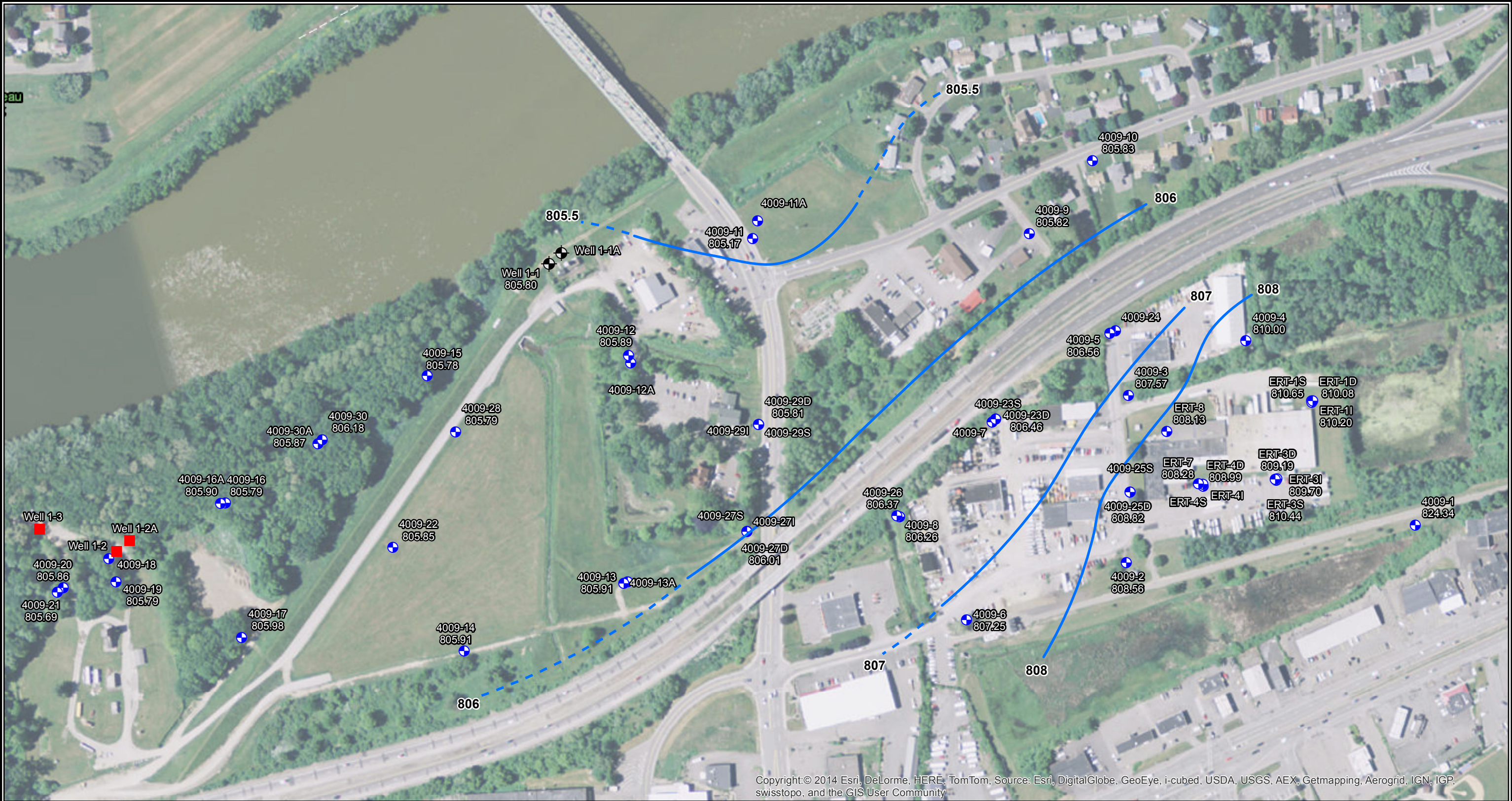
NYSDEC STANDBY CONTRACT NO. D007618-7  
NYSDEC SITE NO. 7-04-009  
**VESTAL WATER SUPPLY**  
VESTAL, NEW YORK

**DEEP POTENTIOMETRIC CONTOUR MAP  
WITH WELL 1-1A INACTIVE  
NOVEMBER 2014**

FIGURE  
**5-3**







Document Path: G:\GISMOD\00266401.0000\GIS\PotMap\_Apr2015.mxd



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**Legend**

-  Pumping/Extraction Well
-  Supply Well
-  Monitoring Well
-  Groundwater Contour (ft amsl)
- 4009-14 Monitoring Well ID
- 805.91 Groundwater Elevation (ft amsl)

0 200 400 800 1,200 1,600 Feet



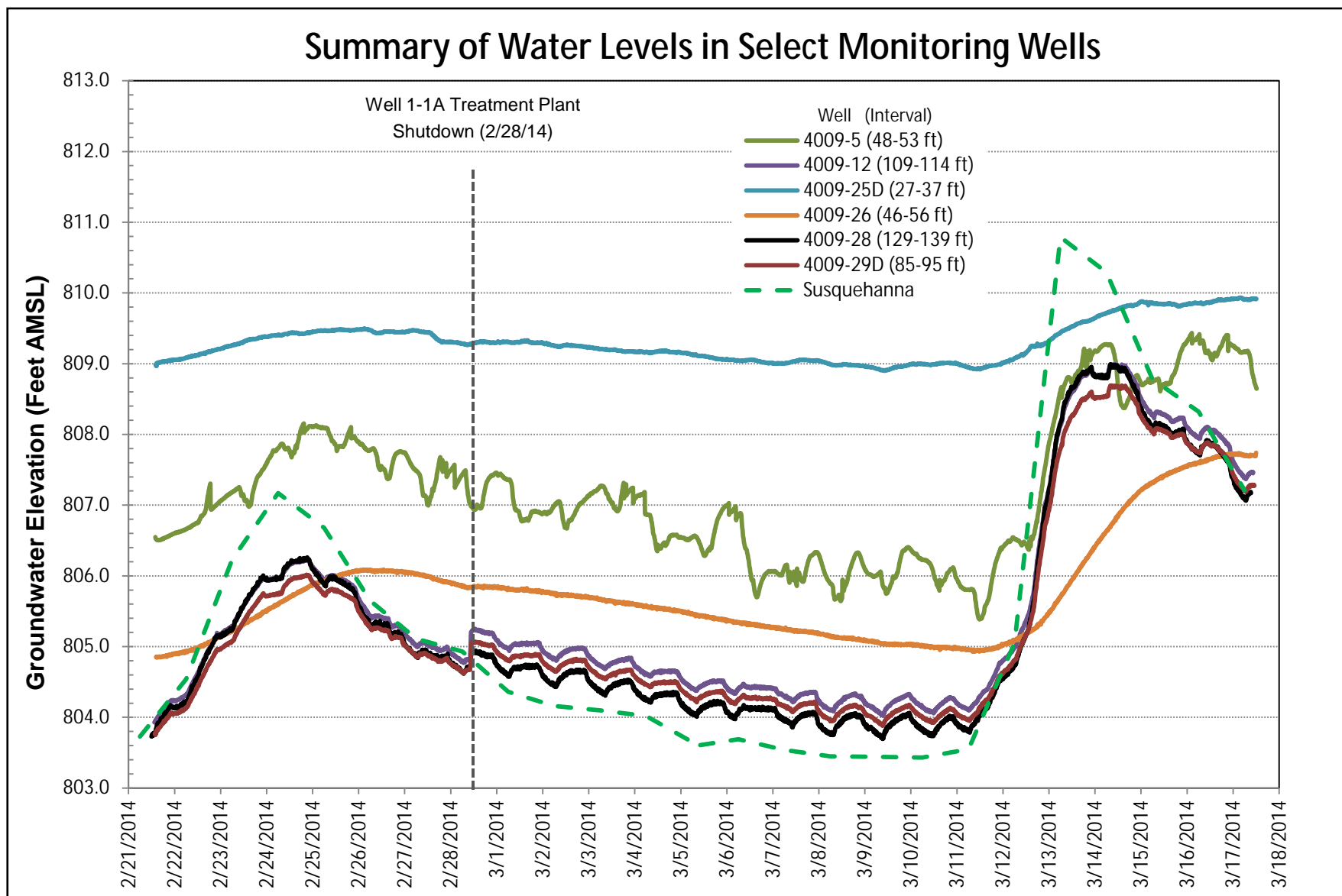
NYSDEC STANDBY CONTRACT NO. D007618-7  
NYSDEC SITE NO. 7-04-009  
VESTAL WATER SUPPLY  
VESTAL, NEW YORK

**DEEP POTENTIOMETRIC CONTOUR MAP  
WITH WELL 1-1A INACTIVE  
APRIL 2015**



FIGURE  
**5-4**







# APPENDIX A

IC/EC Certification Form








**Enclosure 2**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Site Management Periodic Review Report Notice**  
**Institutional and Engineering Controls Certification Form**



Site Details		Box 1
Site No.	704009A	
<b>Site Name Vestal Water Supply (Site 1-1)</b>		
Site Address: 200 STAGE ROAD		Zip Code: 13850
City/Town: Vestal		
County: Broome		
Site Acreage: 225.0		
Reporting Period: August 16, 2016 to January 15, 2017		
		YES    NO
1. Is the information above correct?		<input checked="" type="checkbox"/> <input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		<input type="checkbox"/> <input checked="" type="checkbox"/>
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		<input type="checkbox"/> <input checked="" type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		<input type="checkbox"/> <input checked="" type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?		<input type="checkbox"/> <input checked="" type="checkbox"/>

Box 2	
	YES    NO
6. Is the current site use consistent with the use(s) listed below?	<input checked="" type="checkbox"/> <input type="checkbox"/>
7. Are all ICs/ECs in place and functioning as designed?	<input type="checkbox"/> <input checked="" type="checkbox"/>
<b>IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.</b>	
<b>A Corrective Measures Work Plan must be submitted along with this form to address these issues.</b>	
 _____ Signature of Owner, Remedial Party or Designated Representative	<u>8/25/17</u> _____ Date

**SITE NO. 704009A**

**Box 3**

**Description of Institutional Controls**

Parcel

Owner

Institutional Control

**157.17-1-2**

Town of vestal

Site Management Plan

Envirnmental Easement to restrict Groundwater use

Site Management plan including Groundwater Monitoring, Soil Management, O and M, and IC/EC plans

**Box 4**

**Description of Engineering Controls**

Parcel

Engineering Control

**157.17-1-2**

Groundwater Treatment System  
Fencing/Access Control

Goundwater Treatment system including a Packed Tower.



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