



Glenn Springs Holdings, Inc.

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January 9, 2018

Mr. Mike Negrelli
Emergency and Remedial Response Division
United States Environmental Protection Agency - Region II
290 Broadway, 20th Floor
New York, New York
10007-1866

Dear Mr. Negrelli:

Re: Quarterly Report – Fourth Quarter 2017 (October through December)
Administrative Orders Hooker Chemical/Ruco Polymer Corporation Site
Index Nos. II-CERCLA-80216, II-CERCLA-94-0210, and II-CERCLA-02-2001-2018

This submittal provides the Quarterly Progress Report covering October through December 2017 for the Hooker/Ruco Site in Hicksville, New York. This Report covers OU-1, OU-2, and OU-3. Please note that the next Quarterly Progress Report will be submitted by April 15, 2018 and will cover January through March 2018. A listing of the primary activities is provided in Table 1.

Quarterly Progress Report

The following activities were performed during the period October through December 2017:

- The Quarterly Progress Report for the time period July through September 2017 was submitted to the USEPA on October 10, 2017.

Operable Unit 1 (On-Site Soil)

All work has been successfully completed. OU-1 is closed.

Operable Unit 2 (Soils Impacted by On-Site Release of PCBs)

All work has been successfully completed. OU-2 is closed.

Operable Unit 3 (Off-Site Groundwater)

A listing of the OU-3 O&M activities performed for this reporting period is provided in Table 2. Additional details for the primary activities are provided in the following sections.

It is noted that the selected remedy for the VCM subplume is also based on the recognition that the Northrop groundwater extraction and treatment system (i.e., pumping of Northrop Wells 1 and 3R and treatment via the Tower 96 system) is containing and remediating a commingled plume of PCE and TCE from the Northrop, NWIRP and Hooker/Ruco sites. The VCM subplume is co-located within the commingled PCE/TCE plume. Most of the PCE and TCE located within the commingled plume is associated with the Northrop and NWIRP sites. The Northrop system captures and treats all of the PCE, TCE and VCM, not being treated by the biosparge system, associated with the Hooker/Ruco Site.

Supplemental Treatment System

Agency concurrence to stop treatment of VCM with GSH's supplemental air treatment system was received on January 26, 2017. Operation, maintenance and monitoring of the supplemental system was thereafter taken over by Northrop. It is noted that the VCM concentrations in Well 3R ranged between 2.7 and 3.9 µg/L from December 2016 to September 2017. This further supports that treatment of VCM by the supplemental system is no longer needed.

Biosparge System

See Figures 1 and 2 for system layout and Figures 3 and 4 for system cross-sections. Also shown on Figures 1 and 2 are the most recent VCM groundwater concentrations.

Sampler insertion for the 2nd semi-annual 2017 biosparge system performance monitoring event started on October 2, 2017. All samplers were inserted and retrieved in October except for MW-58D2 and MW-63D1 & D2 which require sequential sampling since all well screens are in the same riser. Also, the PDB sampler for MW-75D1 was ripped when retrieved. Samplers for these four wells were inserted on October 19 and retrieved on November 1, 2017.

The QA/QC review of the October/November 2017 results is provided in Attachment A. The electronic deliverables were provided electronically to the USEPA on December 21, 2017. A copy of the EDDS is also provided in the enclosed CD (to USEPA only).

During the reporting period, air injection was temporarily stopped during the performance monitoring event. For the remainder of the reporting period, air was injected into all north fence wells and all middle fence injection wells except for IW-6D2, IW-7D1, IW-16D1, IW-17D2, IW-18D1, IW-19D1, and IW-20D1&D2. As noted in Table 4, repairs are ongoing for IW-6D2 and IW-7D1. For the remainder of the wells, it is believed that there are physical

impairments in these wells. It is also believed that air injection into these wells is not essential because air is being injected into the air injection wells immediately adjacent to and above these injection points, the dissolved oxygen (DO) concentrations in the majority of nearby monitoring wells are greater than the target level of 2.0 micrograms per liter (mg/L) (as noted in Table 3), and VCM concentrations continue to decrease or remain low level.

Summary of Biosparge System

The DO, total volatile organic compounds (TVOC), and VCM concentration trends for the individual groundwater monitoring wells around the biosparge injection system are shown on Figures 5 through 10. It is noted that figures for well pairs in which the VCM concentrations have been less than the MCL of 2 µg/L for at least the last 2 years were not prepared for the Third Quarter 2017 report. The D1 & D2 wells achieving this goal were MW-61D2, MW-63, MW-72, MW-77, MW-81, MW-82, MW-83, MW-84, and MW-87. In addition, well pairs MW-76S&I and MW-85S&I also achieved this goal. For this Fourth Quarter report, additional well pairs achieving this goal are MW-63S&I, MW-73D1&D2, MW-86D1&D2 and MW-90D1&D2. Thus, no figures for these well pairs are included in this report.

To date, the results show that the biosparge system is operating successfully as demonstrated by the following:

- i) DO levels in the groundwater are greater than the target concentration of 2 milligrams per liter (mg/L) in 19 of the 46 monitoring wells measured in October/November 2017 (see Table 3).
- ii) Groundwater VCM concentrations are non-detect, low level, or decreased between the April/May 2017 and October/November 2017 performance monitoring events in 52 of the 53 monitoring wells for the biosparge system as a result of the microbial biodegradation processes. A minor increase was detected in MW-85D1 (1.0 to 2.1 µg/L).

The wells with lowest DO concentrations are located in close proximity to either the north fence or the east portion of the middle fence of injection wells. It is anticipated that as the groundwater flow paths converge as they approach Northrop Well 3R, the groundwater with low DO concentrations will mix with groundwater with higher DO concentrations. This expectation is supported by the October 2017 DO concentrations in wells MW-66D2, MW-67 and MW-68 which were up to 7.45 mg/L and are located between the middle fence and Well 3R (see Table 3).

The VCM concentrations upgradient of the north fence decreased from 42 µg/L (October 2015) to 24 µg/L (October 2017) in well MW-92 and from 4 µg/L (October 2015) to 1.5 µg/L (October 2017) in well MW-92. These wells are scheduled to be sampled in October 2019.

The VCM concentrations along the west edge of the VCM subplume between the north fence and the middle fence remained non-detect in wells MW-63 and MW-86 since the April/May 2016 sampling event.

The VCM concentrations along the east edge of the VCM subplume downgradient of the middle fence decreased from 9.0 µg/L for the April/May 2017 event to 3.8 µg/L for the October/November 2017 event. The VCM concentrations in well MW-85 have been non-detect since the October 2014 monitoring event except for a concentration of 4.9 µg/L in MW-85D2 for the October/November 2016 event and 2.1 µg/L in MW-85D1 for the October/November 2017 event.

The VCM concentrations in Northrop well MW-3-1, located in close proximity to Northrop Well 3R (fka GP-3) (south of the sub plume), continue to be low level with 16 and 14 µg/L in May and October 2016, respectively.

All of the above indicate that the extent of the VCM subplume is becoming smaller and the VCM concentrations therein are decreasing.

Table 3 of this report also presents analytical results for the other primary VOCs in the groundwater (i.e., PCE and TCE) being sampled by the biosparge system monitoring wells. The PCE, TCE and VCM concentrations for the time period since the start of operation of the Pilot System in October 2006 (for wells which monitor the Pilot System) and since the start of the remainder of biosparge system in September 2012 (for the wells which monitor the remainder of the system) are provided in the table.

As requested by the USEPA, the listed wells have been divided into three groups:

- i) Those wells which are monitored in accordance with the sampling frequency specified in Table 7.1 of the OU-3 Interim Remedial Action Report (Base Wells) (as modified on March 8, 2017).
- ii) Those wells which are sampled periodically on a voluntary basis to obtain a more regional view of chemical presence in the vicinity of the VCM plume (Voluntary Wells).
- iii) Those wells monitored by Northrop which aid in interpreting the chemical presence in the vicinity of the VCM plume (Northrop Wells).

For the 43 base wells listed in Table 3, the PCE concentrations since start of the biosparge system operation have:

- i) Decreased in 21 wells
- ii) Remained relatively constant with random fluctuations in 17 wells
- iii) Increased in 5 wells (MW-77D2, -81D2, -83D2, -86D2 and -87D2)

Similarly, the TCE concentrations have:

- i) Decreased in 22 wells
- ii) Remained relatively constant with random fluctuations in 20 wells
- iii) Increased in 1 well (MW-87D2)

The well in which both PCE and TCE concentrations increased was MW-87D2. Four of these wells (MW-81D2, MW-83D2, MW-86D2 and MW-87D2) are located in proximity to the western edge of the VCM plume. MW-77D2 is located in proximity to the eastern edge of the VCM plume. The reason for the increase is uncertain but is believed to be inconsequential. During installation of the north fence biosparge system injection and monitoring wells into the VCM impacted groundwater in 2011, groundwater with higher PCE and TCE concentrations were detected in the deeper groundwater below the elevation of the groundwater with VCM (see Figure 3). At that time, it was believed, and still is, that the PCE and TCE at depths below the VCM were due to sources other than the Hooker/Ruco Site. It is possible that the groundwater with higher concentrations is now impacting the groundwater chemistry in the referenced wells.

With regard to the wells which are sampled on a voluntary basis, it was noted that there was a TCE concentration increase in well nest MW-58 from the 70 to 110 µg/L range in May 2013 to the 2400 to 6500 µg/L range between November 2014 and May 2017. TCE concentrations ranged from 3300 to 4100 µg/L in October/November 2017. It is believed that these increases are due to the increased pumping rate of Northrop Well 3R drawing more of the highly TCE impacted groundwater from Northrop's OU-3 (see Figure 11).

Also of note is that the PCE and TCE concentrations in the well nests upgradient of the VCM plume (i.e., MW-92 and MW-93) have decreased significantly (e.g., PCE in MW-92D2 has decreased from 690 µg/L in April 2011 to 18 µg/L in October 2017 and from 110 µg/L in April 2011 to 13 µg/L in October 2017 for MW-93D2). These results combined with the decreasing VCM results in these wells are consistent with the expectation that the north upgradient edge of the VCM plume is migrating southward.

Well Conditions Update

The operational status of the injection and monitoring wells for the biosparge system is provided in Table 4. Since the issuance of the 3rd Quarter 2017 Progress Report, air injections in wells IW-1, IW-16D1 and IW-17D1 have been restarted and well IW-7D2 has become non-functional. The operational status of the injection wells was updated using observations obtained during operation of the biosparge system during this reporting period. The operational status of the monitoring wells was updated using observations made during the October/November sampling event.

Planned First Quarter 2018 Activities

The following activities are planned for the first quarter of 2018:

- i) Continue operation and maintenance of the biosparge system
- ii) Repair injection wells IW-6D2 and IW-7D2

Should you have any questions on the above, please do not hesitate to contact me at (713) 366-5143 or e-mail at Roger_Smith@oxy.com.

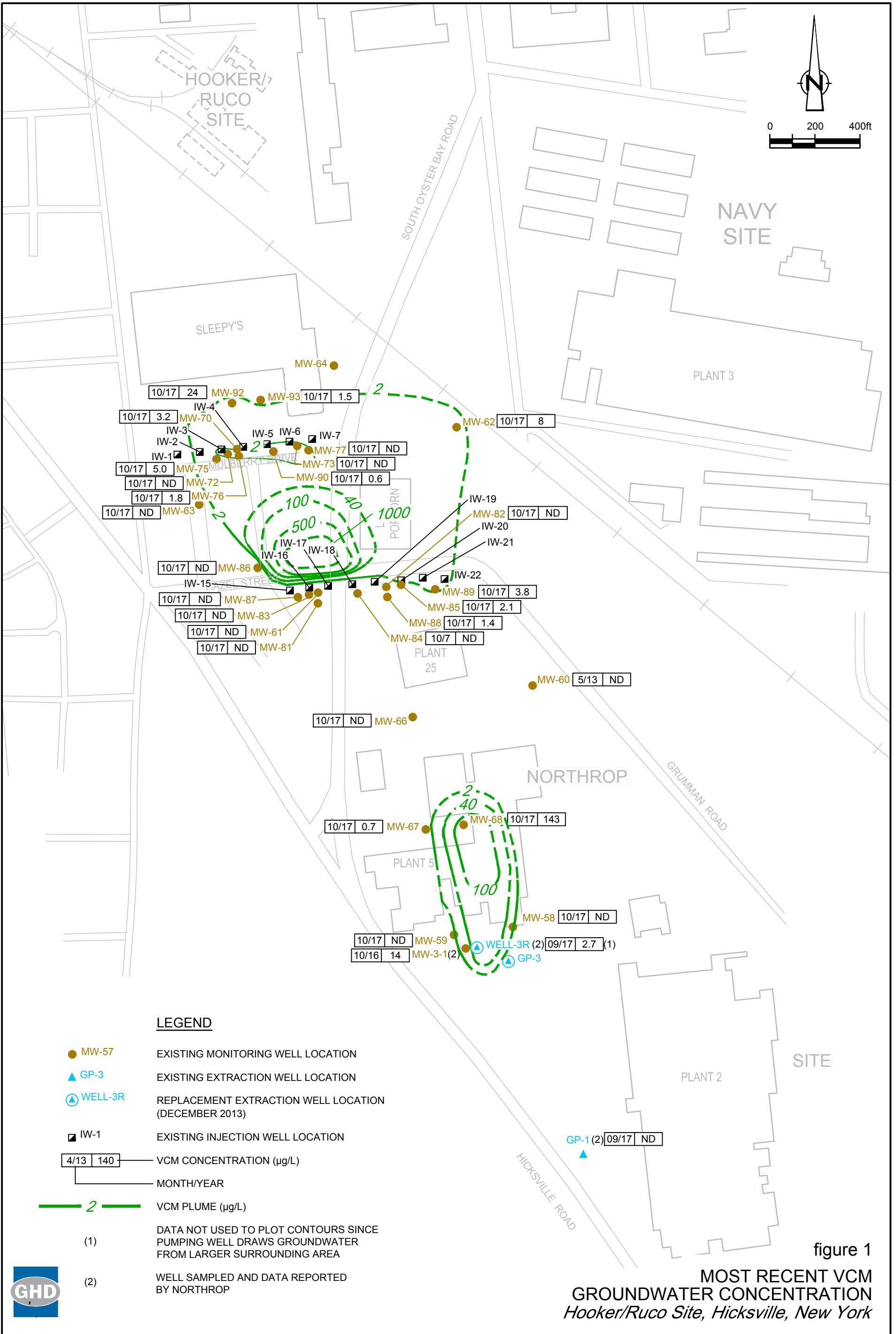
Yours sincerely,

A handwritten signature in blue ink that reads "Roger Smith". The signature is written in a cursive style with a large initial "R" and "S".

Roger Smith
Senior Project Manager

KDS/cb/27
Encl.

cc: P. Mannino (USEPA)
M.E. Wieder (USEPA)
S. Scharf (NYSDEC-PDF on CD)
L. Fly (US Navy)
T. Troutman (Covestro)
T. Kelly (Nassau County)
J. Kay (GHD)



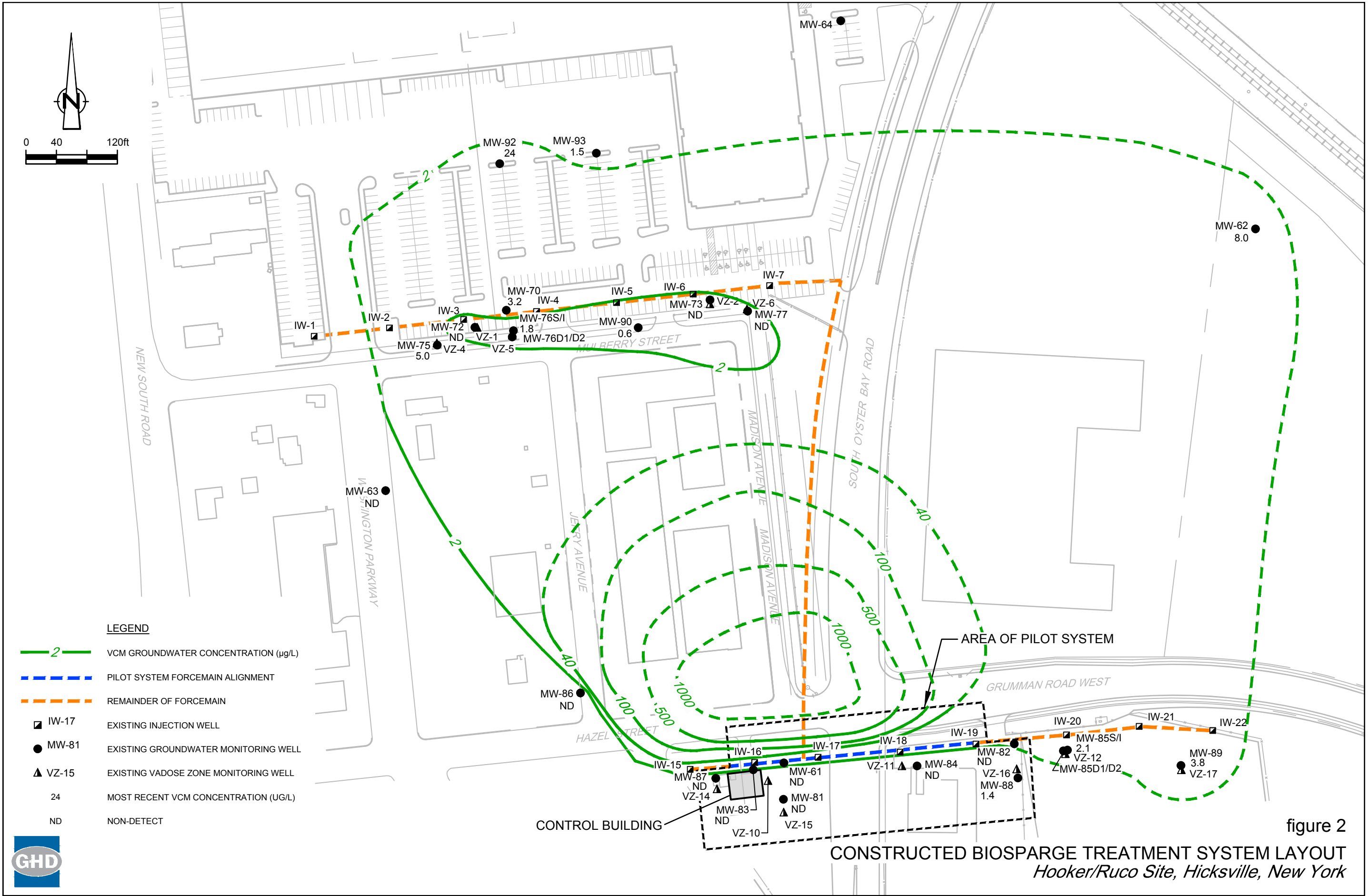
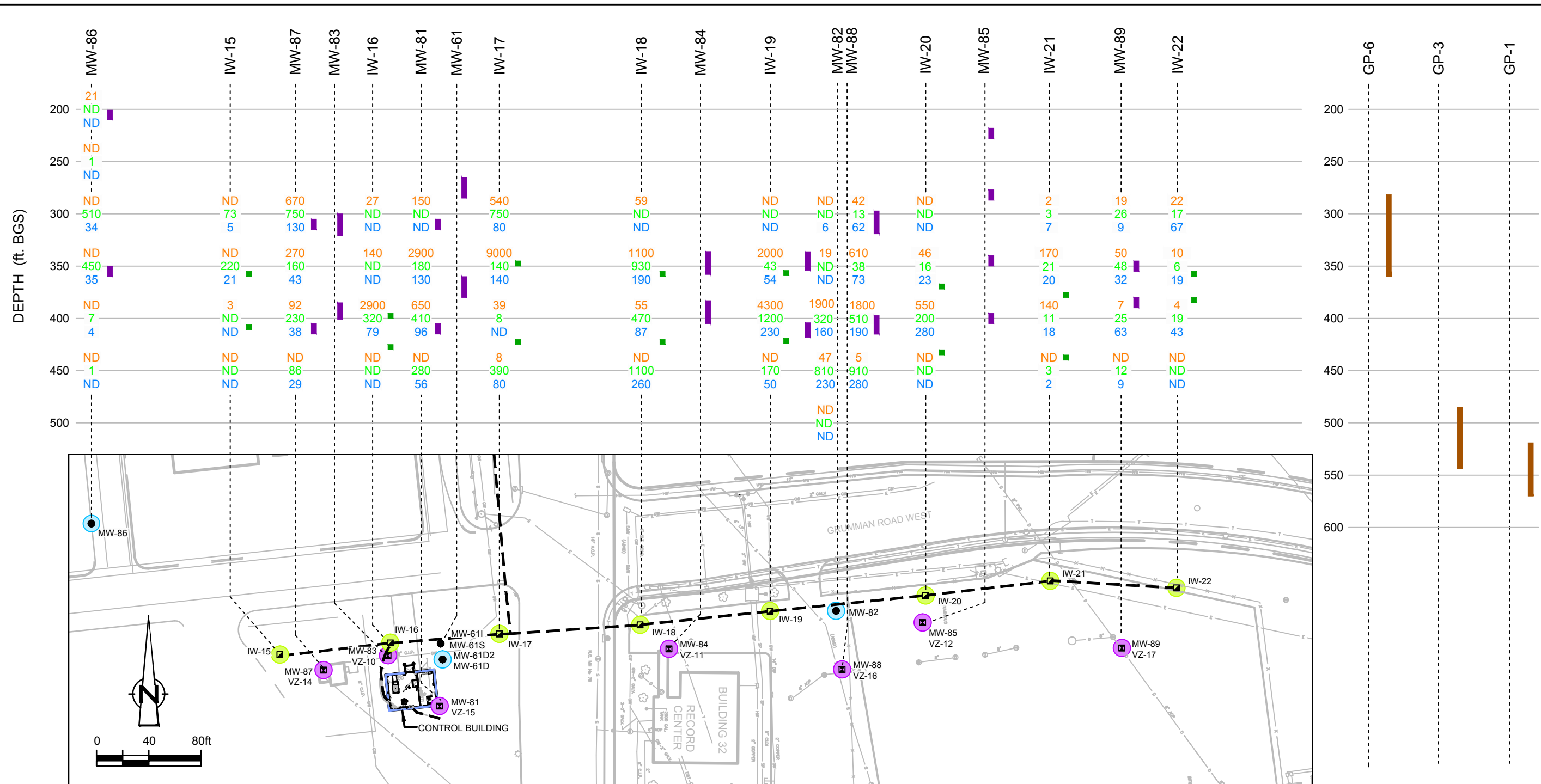


figure 2





LEGEND

- FORCEMAIN ALIGNMENT
- MW-61 GROUNDWATER MONITORING WELL LOCATION
- IW-8 INJECTION WELL LOCATION
- MW-80 VZ-9 GROUNDWATER AND VAPOSE ZONE MONITORING WELL LOCATION
- AIR INJECTION WELL SCREENED INTERVAL
- GROUNDWATER MONITORING WELL SCREENED INTERVAL
- PUMPING WELL SCREENED INTERVAL
- 670 HYDROPUNCH VCM CONCENTRATION (ppb)
- 750 HYDROPUNCH TCE CONCENTRATION (ppb)
- 130 HYDROPUNCH PCE CONCENTRATION (ppb)

OCTOBER THROUGH DECEMBER 2010 HYDROPUNCH RESULTS.

NOTE: PILOT SYSTEM: OCTOBER 2005 THROUGH APRIL 2006 ANALYTICAL RESULTS.
REMAINING COMPONENTS: OCTOBER THROUGH DECEMBER 2010 HYDROPUNCH RESULTS

figure 4
MIDDLE FENCE AIR INJECTION AND GROUNDWATER MONITORING WELL SCREENED INTERVALS
Hooker/Ruco Site, Hicksville, New York



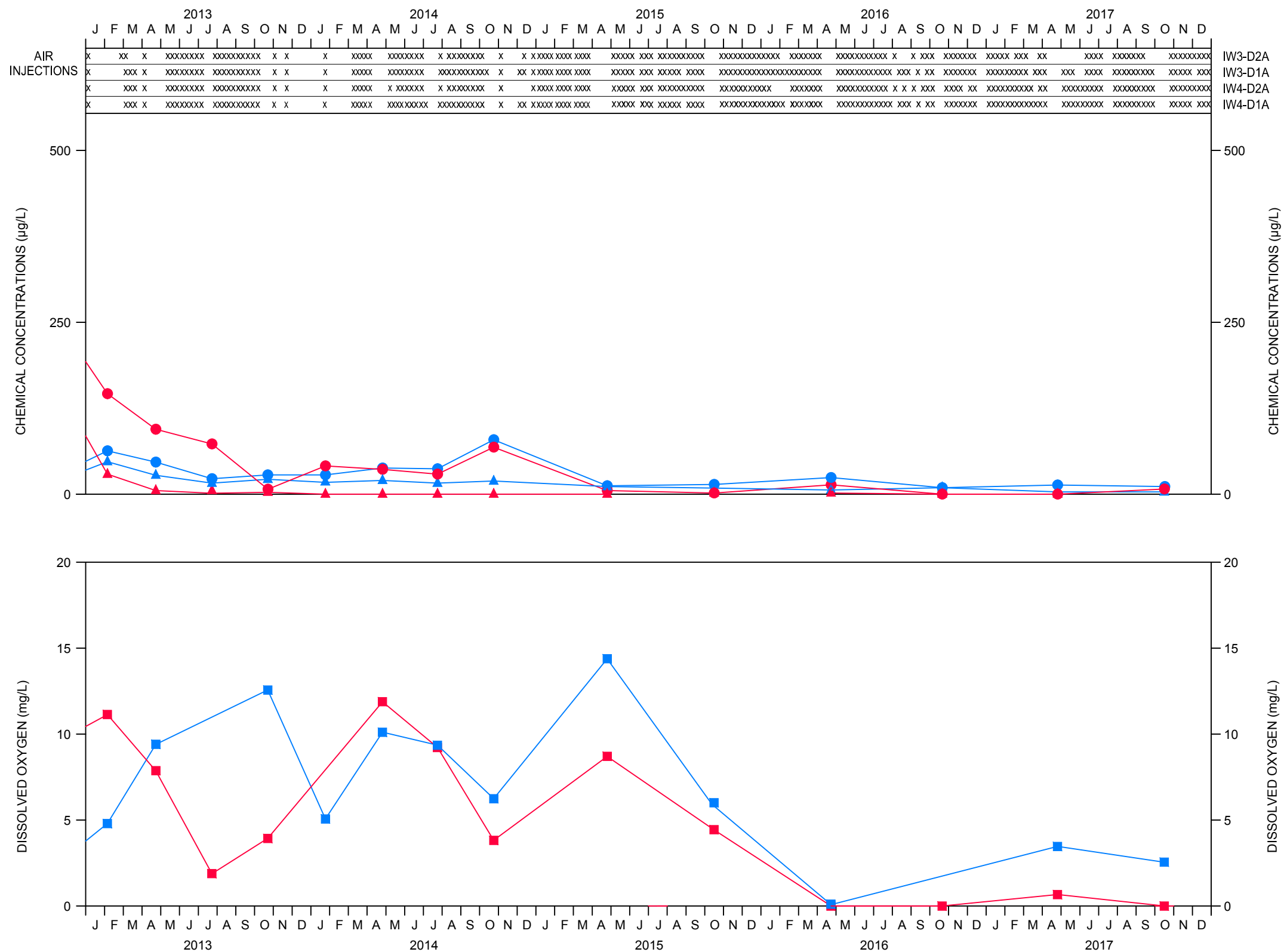


figure 6
 WELL NEST MW-70
 CHEMICAL CONCENTRATION PLOTS
 NORTH INJECTION FENCELINE
 Hooker/Ruco Site, Hicksville, New York



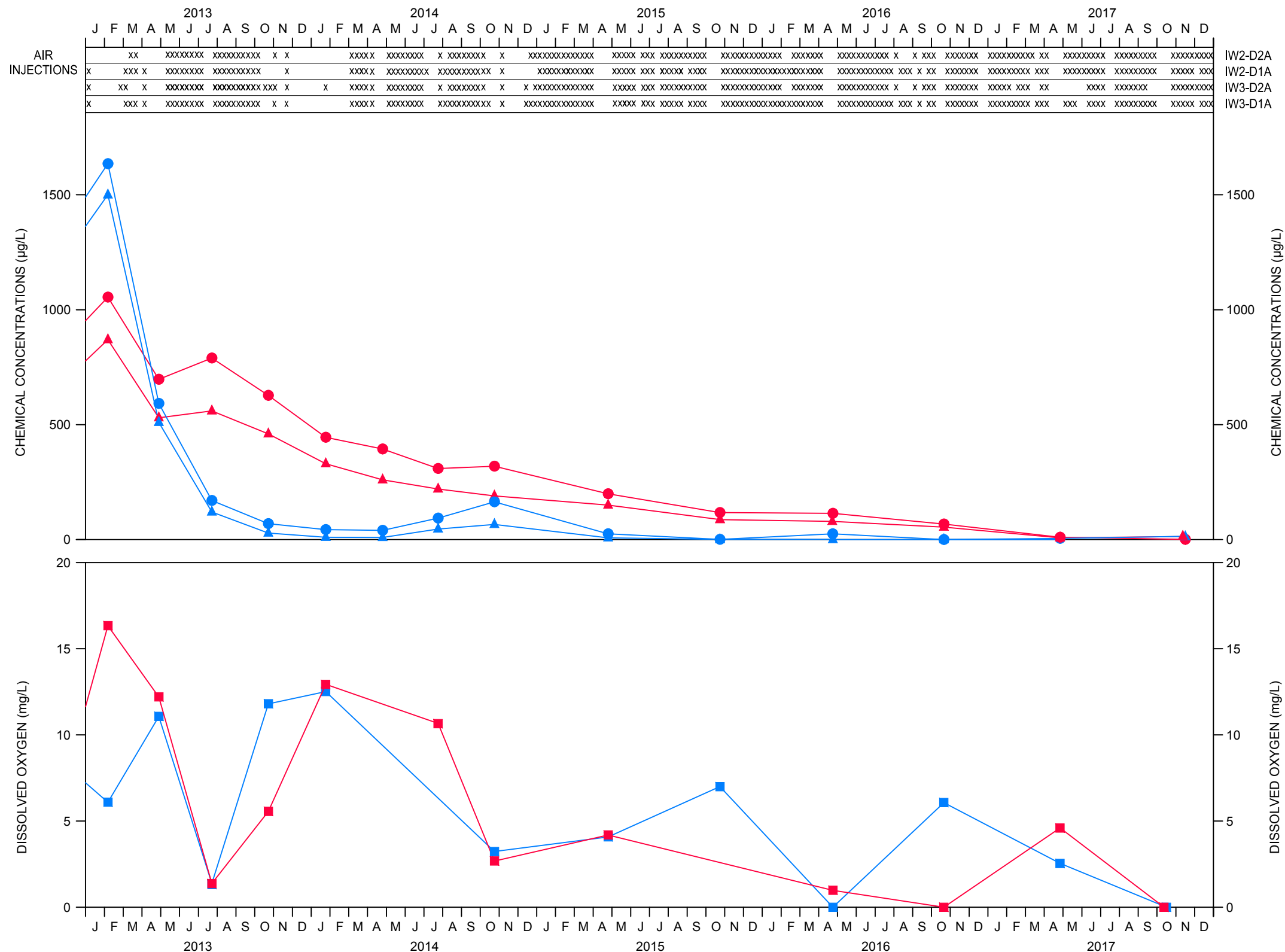


figure 7
 WELL NEST MW-75
 CHEMICAL CONCENTRATION PLOTS
 NORTH INJECTION FENCELINE
 Hooker/Ruco Site, Hicksville, New York



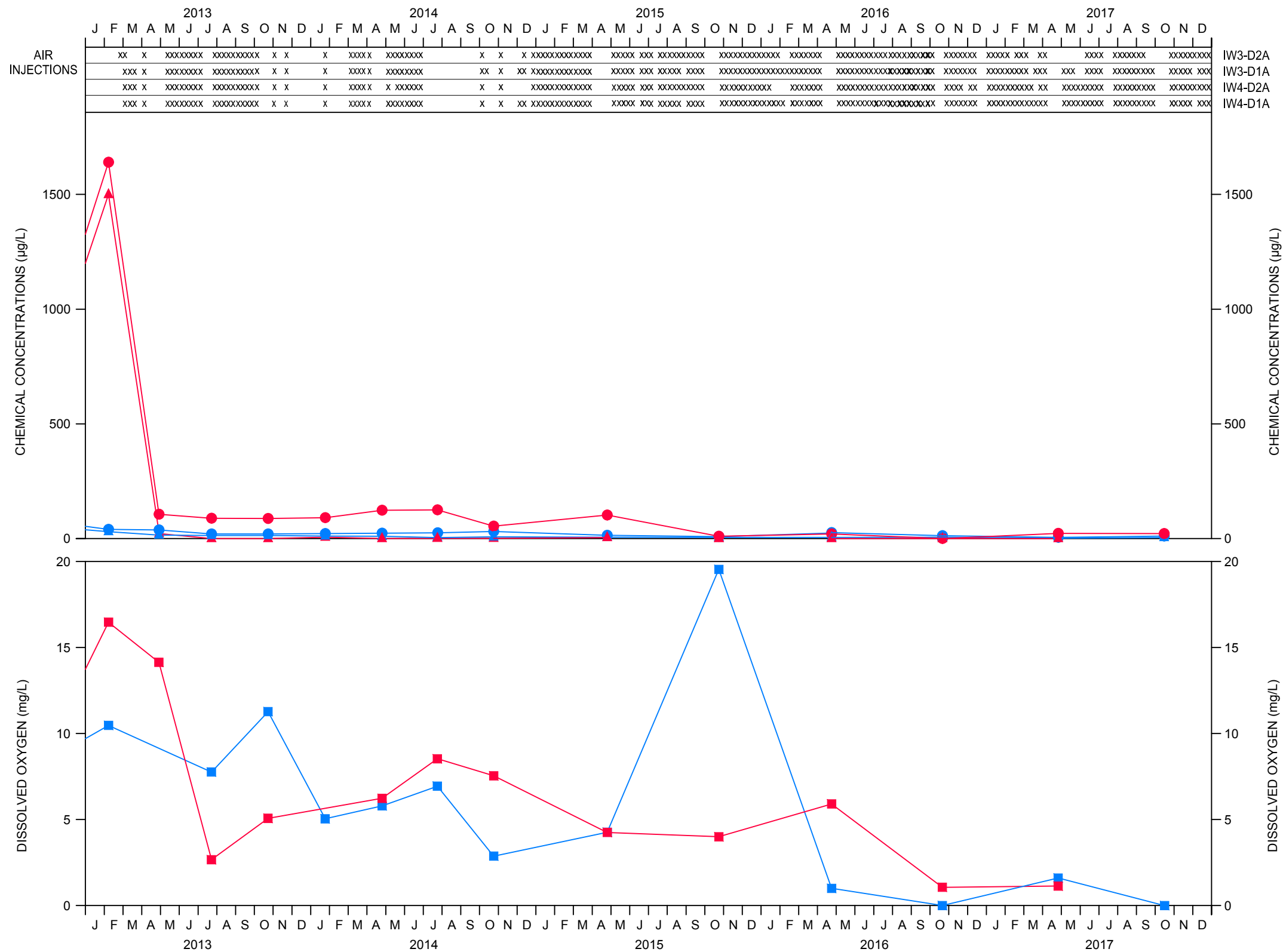


figure 8
 WELL NEST MW-76D1/D2
 CHEMICAL CONCENTRATION PLOTS
 NORTH INJECTION FENCELINE
 Hooker/Ruco Site, Hicksville, New York



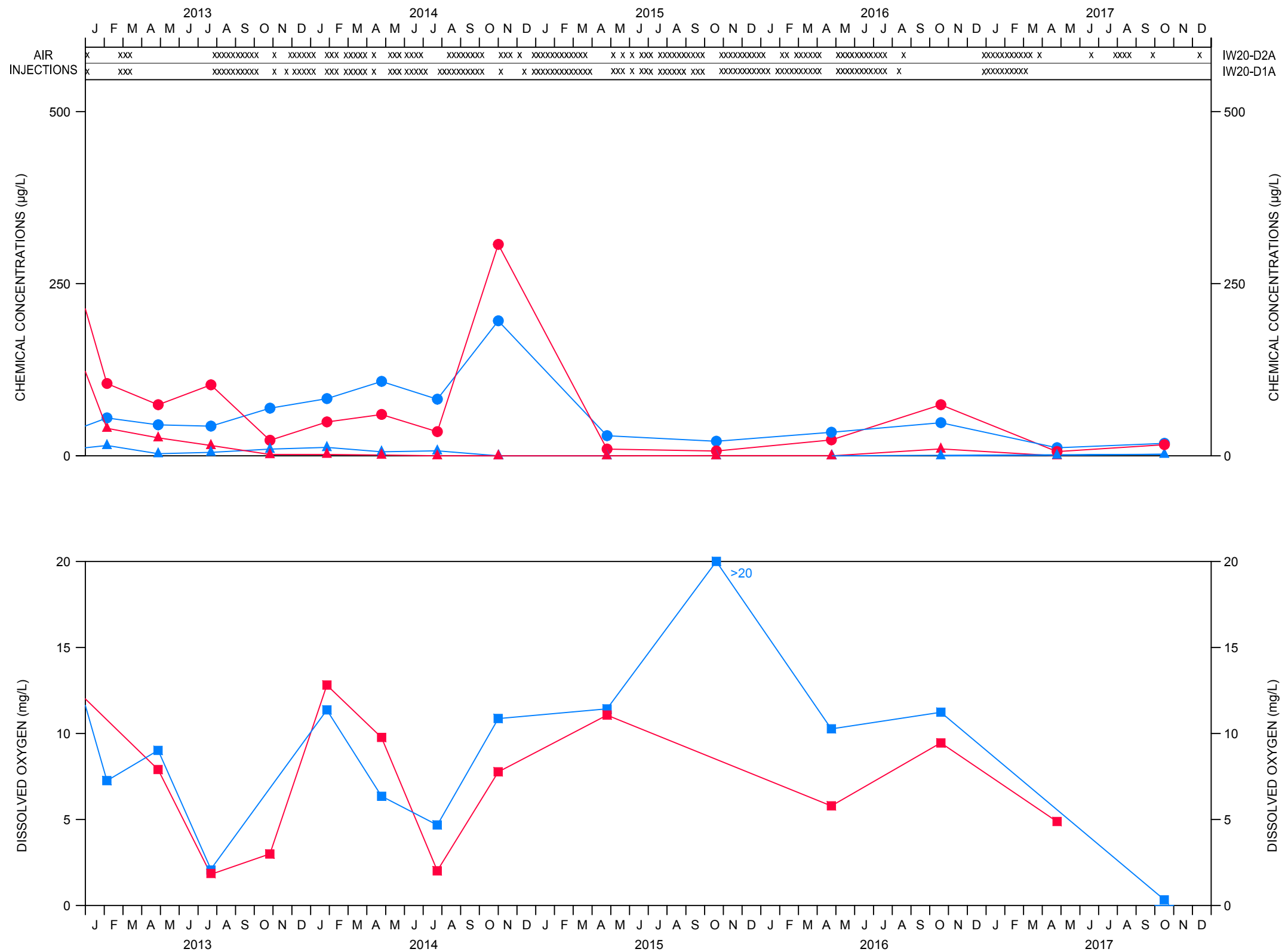


figure 9
 WELL NEST MW-85D1/D2
 CHEMICAL CONCENTRATION PLOTS
 MIDDLE INJECTION FENCELINE
 Hooker/Ruco Site, Hicksville, New York



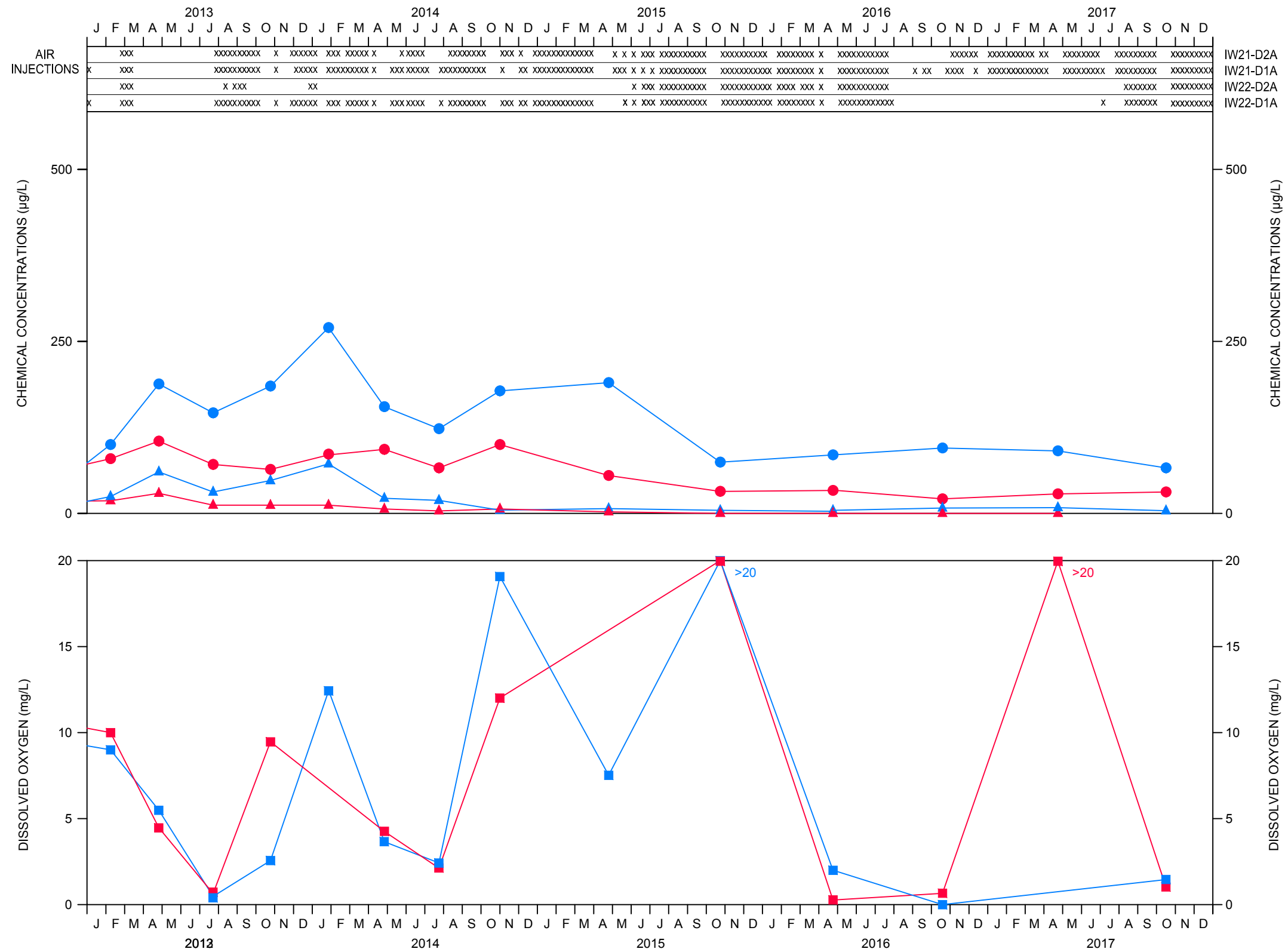


figure 10
 WELL NEST MW-89
 CHEMICAL CONCENTRATION PLOTS
 MIDDLE INJECTION FENCELINE
 Hooker/Ruco Site, Hicksville, New York



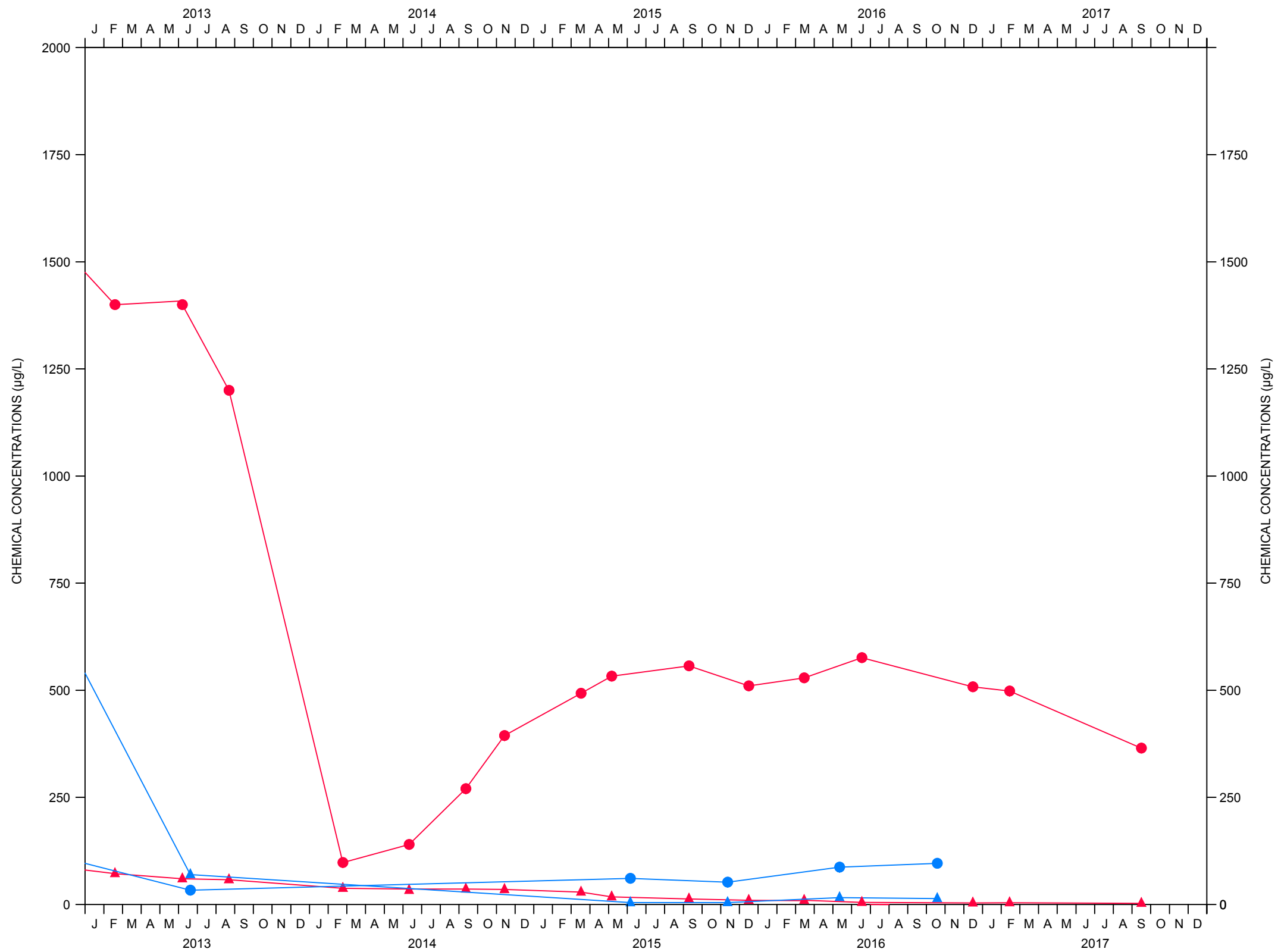


figure 11

NORTHROP WELLS MW3-1 AND 3-R
 CHEMICAL CONCENTRATION PLOTS
 Hooker/Ruco Site, Hicksville, New York



**Glenn Springs Holdings Inc.
Hooker/Ruco Site Operable Unit 3
Hicksville, New York**

October through December 2017

| Task and Activity | Percentage of Activity Completed | Start Date | Scheduled Completion Date | Completion Date |
|---|---|--------------------|----------------------------------|------------------------|
| • Work Plan | 100 | July 1993 | | September 23, 1993 |
| • Borehole/Well Installation (MW-50, MW-53, MW-54 and MW-55) | 100 | September 30, 1994 | | June 19, 1995 |
| • Well Development, Sampling and Analysis | 100 | July 10, 1995 | | August 9, 1995 |
| • Water Level Measurements | 100 | August 15, 1995 | | April, 1996 |
| • Interim Report | 100 | May 23, 1995 | | June 15, 1995 |
| • Interim Report - Addendum No. 1 | 100 | July 28, 1995 | | August 2, 1995 |
| • Grumman Production Wells Sample Collection and Analysis | 100 | August 1, 1995 | | October 4, 1995 |
| • Well Installation (MW-51, MW-52, MW-56 and MW-57) | 100 | August 30, 1995 | | January 26, 1996 |
| • Regional Groundwater Level Monitoring Event | 100 | October 3, 1995 | | October 3, 1995 |
| • Well Development, Sampling and Analysis | 100 | January 22, 1996 | | July 5, 1996 |
| • Grumman Groundwater Model | 100 | July 27, 1995 | | November 20, 1997 |
| • Phase I Report | 100 | February 21, 1996 | | April 26, 1996 |
| • Supporting Documentation Regarding the Effectiveness of In Situ Remediation | 100 | June 10, 1996 | | August 9, 1996 |
| • Phase II Report | 100 | February 21, 1996 | | August 12, 1996 |
| • Comments on DEC Draft Supplemental Feasibility Study | 100 | September 23, 1996 | | October 17, 1996 |
| • Responses to Northrop Comments on the Phase I Report | 100 | April 17, 1997 | | June 6, 1997 |
| • Comments on DEC Supplemental Feasibility Study | 100 | June 1, 1997 | | June 20, 1997 |
| • Comments on Navy Regional Groundwater Feasibility Study | 100 | July 28, 1997 | | October 8, 1997 |
| • Revised Pages for Navy Regional Groundwater Feasibility Study | 100 | July 28, 1997 | | November 3, 1997 |
| • Comments on Groundwater Flow Model Report | 100 | November 20, 1997 | | December 5, 1997 |
| • Comments on Draft Final Regional Groundwater Feasibility Study | 100 | March 27, 1998 | | May 1, 1998 |
| • Comments on Northrop Letter Report | 100 | May 20, 1998 | | June 4, 1998 |
| • Evaluation of MW-52 Area Groundwater Extraction System | 100 | July 1, 1998 | | July 29, 1998 |
| • Remedial Investigation Report | 100 | December 1, 1998 | | January 21, 1999 |
| • Feasibility Study Report | 100 | December 1, 1998 | | March 16, 1999 |
| • Groundwater Treatability Study (GTS) | 100 | December 16, 1998 | | July 19, 1999 |
| • Responses to EPA Comments on RI Report | 100 | May 25, 1999 | | June 11, 1999 |
| • Responses to EPA Comments on FS Report | 100 | June 21, 1999 | | July 7, 1999 |
| • Scope of Pre-design Investigative Activities | | | | |
| - Initial | 100 | June 1, 1999 | | June 11, 1999 |
| - Revised | 100 | February 16, 2001 | | May 28, 2001 |
| • Revised RI Report | 100 | May 25, 1999 | | November 16, 1999 |
| • Revised FS Report | 100 | July 7, 1999 | | December 22, 1999 |
| • Responses to EPA Comments on GTS | 100 | October 14, 1999 | | November 3, 1999 |

**Glenn Springs Holdings Inc.
Hooker/Ruco Site Operable Unit 3
Hicksville, New York**

October through December 2017

| Task and Activity | Percentage of Activity Completed | Start Date | Scheduled Completion Date | Completion Date |
|---|---|-------------------|----------------------------------|------------------------|
| • Responses to EPA Comments on FS Report Responses | 100 | October 14, 1999 | | November 3, 1999 |
| • Obtain access agreements | 100 | June 1999 | | December 2001 |
| • Final RI Report | 100 | March 15, 2000 | | July 21, 2000 |
| • Final FS Report | 100 | April 10, 2000 | | July 25, 2000 |
| • PRAP | 100 | | | July 28, 2000 |
| • ROD | 100 | | | September 29, 2000 |
| • Unilateral Administrative Order | 100 | | | April 26, 2001 |
| • Evaluate VCM presence in GP-3 | 100 | | | August 15, 2001 |
| • Design Supplemental System for VCM in GP-3 | 100 | August 15, 2001 | | December 2001 |
| • EPA Conditional Approval for Predesign Activities | 100 | | | September 28, 2001 |
| • Issued Request for Bid for Well Installation | 100 | | | October 26, 2001 |
| • Contractor Arrangements | 100 | | | January 15, 2002 |
| • Arrangements for Biosparge Testing of Existing Wells | 100 | | | April 12, 2002 |
| • Biosparge Testing of Existing Wells | 100 | April 15, 2002 | | August 13, 2002 |
| • Phase 1 Well Installation | 100 | February 4, 2002 | | June 28, 2002 |
| • Upgrade of GP-1/GP-3 Treatment System | 100 | April 8, 2002 | | July 9, 2003 |
| • Sample Wells | 100 | June 17, 2002 | | July 12, 2002 |
| • Evaluate Pre-Design Information /Develop Scope of Biosparge Remedy | 100 | | | November 22, 2002 |
| • Install 2 Additional Wells (MW-67/68) | 100 | December 18, 2002 | | February 14, 2003 |
| • Sample Wells MW-67 & MW-68 | | | | March 25/26, 2003 |
| • Responses to EPA comments on Predesign Information Report | 100 | March 6, 2003 | | March 27, 2003 |
| • EPA Meeting | | | | April 17, 2003 |
| • Closed Well T-1 | 100 | | | May 12, 2003 |
| • MW-67/68 Installation Report | 100 | | | May 23, 2003 |
| • Responses to EPA comments on March 27, 2003 Responses | 100 | June 25, 2003 | | July 29, 2003 |
| • Pre-Final (95%) RD Report | 100 | July 7, 2003 | | October 31, 2003 |
| • Responses to EPA comments on 95% RD Report | 100 | April 12, 2004 | | May 27, 2004 |
| • Submitted Due Diligence Request to Northrop | 100 | | | May 10, 2004 |
| • Follow up Due Diligence Clarification to Northrop 6/11 Data Package | 100 | | | June 25, 2004 |
| • Offer to Northrop for Property Purchase | 100 | | | October 1, 2004 |
| • Sample 13 Wells and Submit Results | 100 | August 23, 2004 | | October 14, 2004 |
| • Responses to EPA Comments on 95% RD Report | 100 | November 17, 2004 | | December 6, 2004 |
| • Revised Property Purchase offer submitted to Northrop | 100 | December 22, 2004 | | December 22, 2004 |
| • Prepare 100% RD Report | 100 | January 12, 2005 | | May 27, 2005 |
| • Property Purchased | 100 | | | June 2005 |

**Glenn Springs Holdings Inc.
Hooker/Ruco Site Operable Unit 3
Hicksville, New York**

October through December 2017

| Task and Activity | Percentage of Activity Completed | Start Date | Scheduled Completion Date | Completion Date |
|--|---|--------------------|----------------------------------|------------------------------|
| • 100% Design Approved | 100 | | | July 7, 2005 |
| • Obtain Building Permits | 100 | July 11, 2005 | | November 10, 2005 |
| • Arrange Contractors | 100 | January 2005 | | July 22, 2005 |
| • Well Installation | 100 | September 13, 2005 | | April 28, 2006 |
| • Biosparge System Installation | 100 | November 2005 | | May 2006 |
| • Closure of On-Site and Off-Site Wells | 100 | November 2005 | | May 10, 2006 |
| • OU-1 Soil Borings | 100 | November 2005 | | January 11, 2006 |
| • Background Groundwater Sampling | 100 | March 27, 2006 | | June 14, 2006 |
| • Pre-Start Sampling | 100 | | | October 24, 25, and 26, 2006 |
| • Final Inspection | 100 | | | October 27, 2006 |
| • Biosparge System Start-Up | 100 | | | October 27, 2006 |
| • First Monthly Sampling | 100 | | | November 28 to 30, 2006 |
| • Second Monthly Sampling | 100 | | | December 20 and 21, 2006 |
| • Noise Survey | 100 | | | January 18, 2007 |
| • 2007 First Quarterly Sampling | 100 | | | January 23 to 30, 2007 |
| • Submission of Phase I Construction Documents | 100 | | | February 1, 2007 |
| • 2007 Second Quarterly Sampling | 100 | | | April 18 to 27, 2007 |
| • 2007 Third Quarterly Sampling | 100 | | | July 16 to 27, 2007 |
| • 2007 Fourth Quarterly Sampling | 100 | | | October 8 to 18, 2007 |
| • Evaluation/Recommendation for Design Modifications | 100 | | | January 15, 2008 |
| • 2008 First Quarterly Sampling | 100 | | | January 22 to 28, 2008 |
| • 2008 Second Quarterly Sampling | 100 | | | April 16 to 25, 2008 |
| • 2008 Third Quarterly Sampling | 100 | | | July 15 to 18, 2008 |
| • 2008 Fourth Quarterly Sampling | 100 | | | October 21 to 30, 2008 |
| • Construction of North Fence Underground Components | 100 | | | December 23, 2008 |
| • 2009 First Semi-Annual Sampling | 100 | | | April 7 to 14, 2009 |
| • Response to USEPA Biosparge System Comments | 100 | August 27, 2009 | | September 23, 2009 |
| • 2009 Second Semi-Annual Sampling | 100 | | | October 13 to 21, 2009 |
| • Submittal of Biodegradation Supporting Information | 100 | | | November 30, 2009 |
| • Submittal of Revised Schedule | 100 | | | February 3, 2010 |
| • Submittal of PDB/HydraSleeve TM Evaluation | 100 | | | February 11, 2010 |
| • Trailing Edge Proposal | 100 | | | March 15, 2010 |
| • 2010 First Semi-Annual Sampling | 100 | | | May 3 to 25, 2012 |
| • Distribution of RFP for Biosparge System Well Installation | 100 | | | June 25, 2010 |
| • Contracted Well Driller | 100 | | | August 3, 2010 |

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Hooker/Ruco Site Operable Unit 3
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October through December 2017

| Task and Activity | Percentage of Activity Completed | Start Date | Scheduled Completion Date | Completion Date |
|---|---|--------------------|----------------------------------|---------------------------------|
| • 2010 Second Semi-Annual Sampling | 100 | | | November 15 to 29, 2010 |
| • Install Biosparge System Wells | 100 | September 20, 2010 | | May 15, 2011 |
| • 2011 First Semi-Annual Sampling & Site Wide Event | 100 | | | April 7 to May 19, 2011 |
| • Distribution of RFP for Biosparge System Expansion | 100 | | | May 4, 2011 |
| • Receipt of Bids | 100 | | | June 17, 2011 |
| • Submittal of PDB/HydraSleeve TM Evaluation | 100 | | | August 31, 2011 |
| • USEPA Concurrence For Use of PDB Samplers | 100 | | | September 22, 2011 |
| • Update QAPP | 100 | September 22, 2011 | | October 24, 2011 |
| • 2011 Second Semi-Annual Sampling | 100 | | | Nov. 30 to Dec. 1, 2011 |
| • Revise Updated QAPP | 100 | December 6, 2011 | | January 3, 2012 |
| • Address EPA Comments on revised updated QAPP and resubmit | 100 | February 17, 2012 | | April 13, 2012 |
| • Construction of Remainder of Biosparge System | 100 | March 5, 2012 | | August 15, 2012 |
| • 2012 First Semi-Annual Sampling | 100 | | | May 23 and 24, 2012 |
| • Submit Interim Remedial Action Report | 100 | | | September 26, 2012 |
| • Submit Electrical As-Built Drawings | 100 | | | October 10, 2012 |
| • 2012 Second Semi-annual Sampling | 100 | | | October 24 to November 25, 2012 |
| • 2013 First Quarter Sampling | 100 | | | January 8 to February 13, 2013 |
| • Well Rehabilitation Works | 100 | | | March 8 to 29, 2013 |
| • 2013 Second Quarter Sampling | 100 | | | April 24 to May 23, 2013 |
| • 2013 Third Quarter Sampling | 100 | | | July 9 to 25, 2013 |
| • 2013 Fourth Quarter Sampling | 100 | | | October 24 to November 7, 2013 |
| • 2014 First Quarter Sampling | 100 | | | January 7 to 27, 2014 |
| • 2014 Second Quarter Sampling | 100 | | | April 23 to May 15, 2014 |
| • 2014 Third Quarter Sampling | 100 | | | July 2 to August 6, 2014 |
| • 2014 Fourth Quarter Sampling | 100 | | | October 6 to November 11, 2014 |
| • Responses to EPA Comments | 100 | December 10, 2014 | | December 19, 2014 |
| • 2015 First Semi-Annual Sampling | 100 | | | April 6 to May 8, 2015 |
| • 2015 Second Semi-Annual Sampling | 100 | | | October 6 to November 16, 2015 |
| • 2016 First Semi-Annual Sampling | 100 | | | April 11 to June 2, 2016 |
| • USEPA 5-year Review | 100 | | | September 7, 2016 |
| • 2016 Second Semi-Annual Sampling | 100 | | | October 3 to November 2, 2016 |
| • 2017 First Semi-Annual Sampling | 100 | | | April 25 to May 11, 2017 |
| • 2017 Second Semi-Annual Sampling | 100 | | | October 2 to November 1, 2017 |

Table 2

**2017 Summary of O&M Activities
Supplemental and Biosparge Systems
Hicksville, New York**

| Date Observed | Description of Issue | Action Taken | Date of Action | Outcome of Action | Notes |
|----------------------|--|--|-------------------------------|--|--|
| 8/19/16 | Air leak in IW-22 riser beneath floor of vault | Master Mechanical jackhammers through vault floor and digs to expose corroded pipe | 12/9/16 | Corroded pipe extends further below grade than previously thought | Repair scheduled for July 6, 2017 |
| 12/15/16 | PLC For IW-20 not functioning properly | CA RICH, GHD, and GSH troubleshoot | 12/16/16, 12/19/16 & 12/21/16 | Faulted power supply in PLC cabinet. New power supply ordered and installed. Air injections restarted | |
| 1/3/17 | Atlas compressor due for PM Service | Atlas Copco on-site for PM Service | 1/3/17 | PM Service completed successfully | |
| 1/12/17 | Monthly Inspection | Monthly inspection performed | 1/12/17 | Monthly inspection completed successfully | IW-17 and IW-18 vaults observed to contain standing water and need to be pumped out |
| 1/12/17 | IW-17 and IW-18 observed during monthly inspection to contain standing water | CA RICH on-site to pump out IW-17 and IW-18 vaults | 1/13/17 | IW-17 and IW-18 vaults successfully pumped out | |
| 1/18/17 | IW-15D and IW-20D not registering air flow | CA RICH on-site to troubleshoot | 1/19/17 | IW-20D - opened bleed valve to relieve pressure. Mud observed coming out of pipe. When no more mud was present, well appeared to be injecting properly | JVR to replace flow meter |
| 1/18/17 | IW-15D not registering air flow | JVR on-site to replace flow meter | 1/27/17 | IW-15D flow meter changed out successfully | Flow meter now registering flow briefly before reading 0 SCFM. CA RICH to continue monitoring. GHD to advise |
| 1/26/17 | Carbon to be removed from Supplemental system | Carbon removed from Supplemental System by GSH | 1/26/17 | Carbon replaced by Northrop | |
| 2/17/17 | Monthly Inspection | CA RICH on-site for monthly inspection | 2/17/17 | Monthly inspection completed successfully | IW-4 found to be damaged by a snow plow and blocked off |
| 2/23/17 | Sleepy's indicates vaults in parking lot have been damaged | CA RICH on-site to inspect vaults. | 2/23/17 | Photos sent to GHD and Master Mechanical | Repair of: IW-4 (most damage), IW-5 (vault that had been previously welded) and IW-6 (slight crack at hinge) to be scheduled |
| 3/13/2017 | Snow storm forecasted for 3/14 | CA RICH on-site to cone off IW vaults in Sleepys parking lot to prevent further damage | 3/14/2017 | No further damage from snow plow after snow storm | |
| 3/21/17 | Monthly Inspection | Monthly inspection performed | 3/21/17 and 3/24/17 | IW-20I not registering flow. opened bleed valve to relieve pressure, no water/mud but flow meter still not registering flow | CA RICH will continue monitoring. GHD to advise |
| 3/23/17 | KMnO4 to be removed from Supplemental system | KMnO4 removed from Supplemental system by GHS | 3/23/17 | Carbon to be installed by Northrop | On-site Northrop representative indicated the vessel would be refilled in approximately one week |
| 3/24/17 | IR compressor due for service | K&G Power systems on-site for service | 3/24/17 | Service completed successfully | |

Table 2

**2017 Summary of O&M Activities
Supplemental and Biosparge Systems
Hicksville, New York**

| Date Observed | Description of Issue | Action Taken | Date of Action | Outcome of Action | Notes |
|----------------------|--|---|-----------------------|--|--|
| 4/10/17 | Groundwater monitoring | Final Groundwater Samples Collected | 5/11/17 | April 2017 Groundwater Sampling event complete | |
| 5/26/17 | Monthly Inspection | Monthly Inspection Performed | 5/26/17 | Monthly inspection completed successfully | IW-03 actuator not operating properly - JVR to replace |
| 2/17/17 | Vault doors of IW-4, IW-5, IW-6 damaged by snow plow | Vault door of IW-5 welded | 5/30/17 | IW-5 vault door repaired successfully | |
| 2/17/17 | Vault doors of IW-4, IW-5, IW-6 damaged by snow plow | Vault door of IW-4 welded | 5/31/17 | IW-4 vault door repaired successfully | |
| 2/17/17 | Vault doors of IW-4, IW-5, IW-6 damaged by snow plow | Vault door of IW-6 welded | 6/2/17 | IW-6 vault door repaired successfully | |
| 5/26/17 | Blown fuse IW-5, Actuator in IW-4 and troubleshoot flow in various wells | JVR onsite | 6/5/17 & 6/7/17 | IW-03D actuator replaced successfully with IW-03 Water actuator | Field confirmed that IW-15 and IW-20 valves are working properly- still unable to generate flow into IW-15D and IW-20I |
| 6/5/17 | IW-19 vault door damaged | IW-19 vault door welded | 6/9/17 | IW-19 vault door repaired successfully | |
| 6/14/17 | Upgrade automation of PLC/Server | <ul style="list-style-type: none"> • Replaced automation firewall • Upgraded ICONICS Genesis64 from v10.87 to v10.93 • Upgraded ICONICS OPC Server from v5.5a to 5.5b • Installed MOXA MXView Networking software v2.8 • Applied the latest Microsoft patches • Upgraded the MOXA switch firmware from v3.4 to v3.8 • Upgraded the PLC firmware from v20.011.59 to v20.019.98 • Removed the Proficy Historian collector • Installed ICONICS Hyper Historian collector • Updated Dell BIOS from v18 to v19 | 6/14/17 | Successful automation upgrades | |
| 6/12/17 | IW-01 not operational | JVR onsite to troubleshoot | 6/15/17, 6/28/17 | IW-01 still not operational - further troubleshooting to be conducted with JVR, GHD, and CA RICH | |
| 6/19/17 | IW-16 Vault flooded alarm | IW-16 pumped out | 6/19/17 | IW-16 successfully pumped out | |
| 6/29/17 | Monthly Inspection | Monthly inspection performed | 6/29/17 | Monthly inspection completed successfully | |

Table 2
2017 Summary of O&M Activities
Supplemental and Biosparge Systems
Hicksville, New York

| Date Observed | Description of Issue | Action Taken | Date of Action | Outcome of Action | Notes |
|----------------------|--|--|-----------------------|---|---|
| 8/19/16 | Air leak in IW-22 riser beneath floor of vault | AARCO on-site to weld leak | 7/6/17 | Leak repaired successfully | |
| 6/12/2017 | IW-01 not operational | JVR on-site to removal Allen Bradley hardware along with modules | 7/11/2017 | IW-01 out of service. Parts were shipped to J. Ezak (GHD) for further troubleshooting | |
| 7/17/2017 | Atlas compressor due for PM Service | Atlas Copco on-site for PM Service | 7/17/2017 | PM Service completed successfully | |
| 7/17/17 | Main PLC Processor Power Failure | JVR onsite to troubleshoot | 7/25/17 | Possible brownout due to increased usage of local air conditioners (weather high temperature) or bad Chassis power supply | |
| 7/17/17 | Fire alarms due for inspection | Fire alarms inspected | 7/17/17 | Fire alarms found to be working properly | |
| 7/28/17 | Monthly Inspection | Monthly inspection performed | 7/28/17 | Monthly inspection completed successfully | |
| 8/17/17 | Monthly Inspection | Monthly inspection performed | 8/17/17 | IW-06I found to be causing water to enter the bottom of the vault through a drain during air injections. IW-07D actuator found to be not responsive | JVR to replace IW-07D actuator with IW-07 Water actuator. Further troubleshooting of IW-06 required |
| 8/21/17 | JVR on-site to further troubleshoot IW-01 and replace actuator in IW07D | IW-07D actuator replaced with water actuator. IW-01 and IW-07 Flex-IO hardware switched | 8/21/17 | IW-07D actuator replaced successfully with IW-07 water actuator. IW-01 regains functions temporarily, but returns to alarm after about 50 minutes | Further troubleshooting of IW-01 required |
| 8/25/17 | CA RICH on-site to troubleshoot IW-01 with J. Ezak | Ethernet port locations in IW-01 and IW-02 (within IW-04) switched | 8/25/17 | IW-01 begins to function properly, but only temporarily | Further troubleshooting of IW-01 required. To be conducted first week of September |
| 9/1/17 | JVR on-site to further troubleshoot IW-01 | Hardware swapped from IW-01 to IW-17 | 9/1/17 | Alarm returns to IW-01 within about 40 minutes | |
| 9/6/2017 | CA RICH on-site to troubleshoot IW-01 with J. Ezak, and further troubleshoot IW-06I | Actuators in IW-01 respond to commands given to IW-17. We are unable to control IW-17. Air injections in IW-06I still found to be causing water to enter vault | 9/6/2017 | It is determined that the problem has followed the hardware to IW-17. During air injections into IW-06I, it appears that water entering the vault is exiting through a different drain at an equal rate | New hardware to be ordered and placed in IW-17. CA RICH/GHD to discuss observation in IW-06I |
| 9/13/17 | Atlas compressor discovered to be leaking water | CA RICH temporary replaces condensate valve tubing and extends tubing to drain | 9/14/17 | Atlas compressor no longer leaking water | It appears that this temporary fix will last until the next PM service is due (January). CA RICH to monitor performance of Atlas compressor |
| 9/18/17 | Monthly Inspection | CA RICH on-site for monthly inspection | 9/18/17 | It is found that computer is not functional due to PLC issue. After troubleshooting with George Rose (GSH) the computer becomes functional and the monthly inspection | Air dryer was found to be shut down. After re-starting and returning to normal temperature, air dryer returns to normal functioning. |
| 9/26/17 | CA RICH on-site to place IW-06I back into schedule and monitor injections, and to respond to alarms in IW-03I and IW-17D | IW-06I was placed back into schedule, troubleshooting completed in IW-03 and IW-01 (because of hardware switch from IW-17) | 9/26/17 | Further monitoring and observations in IW-06I determines that water is entering the vault through a non-functional drain and exiting the vault through a functional drain. IW-03I actuator found to be non-functional. IW-01 found to have water in the lines | IW-06I to be returned to schedule but frequently monitored by CA RICH to ensure vault is not flooded. IW-03I actuator to be replaced by JVR. IW-01 lines bled, well begins to function properly |

Table 2

**2017 Summary of O&M Activities
Supplemental and Biosparge Systems
Hicksville, New York**

| Date Observed | Description of Issue | Action Taken | Date of Action | Outcome of Action | Notes |
|----------------------|--|--|-----------------------|--|---|
| 9/26/17 | IW-03I actuator found to be not functioning properly | JVR on-site to replace actuator | 10/6/17 | IW-03I actuator successfully replaced with IW-02 water actuator | |
| 10/2/2017 | Groundwater monitoring | Sampler insertion and sample collection completed | 10/2/17-10/16/17 | sampler insertion and sample collection completed successfully | Final samples to be collected 11/1/17 |
| 10/2/2017 | local resident indicates he would like to see the fence along Jeffrey Lane removed | AARCO on-site to remove fence | 10/13/2017 | AARCO successfully removes fence | |
| 10/4/2017 | Power Issues at Site | UPS to be bypassed | 10/4/2017 | Still having PLC/Power issues | |
| 10/9/17 | Annual Review of the Energy Control Procedures due | GHD and CA RICH on-site to conduct the Annual Review Energy Control Procedures and conduct Site inspection | 10/9/17 | Annual Review Energy Control Procedures and Site inspection completed successfully | |
| 10/10/17 | Verizon to convert copper wires to fiber | Verizon on-site to convert copper wires to fiber | 10/10/17 | Copper wires successfully converted to fiber | |
| 10/4/17 | Power Issues at Site | George Rose on-site to resolve issues | 10/18/17 | Issues resolved | |
| 10/25/17 | new hardware for IW-01 ready to be installed | JVR on-site to install new hardware | 10/25/17 | IW-01 hardware successfully installed | Computer needed AOP, EDS, Firmware files installed onto it before hardware could become operational. George Rose moved files, Josh Ezak provided, onto computer. Josh Ezak installed files and modified PLC Program. Operational verification of hardware will take place in early November |
| 10/30/17 | Flood alarms in IW-06 and IW-18 | CA RICH on-site to pump IW-06 and IW-18 | 10/30/17 | IW-06 and IW-18 pumped successfully | |
| 10/2/17 | Groundwater monitoring | CA RICH on-site to collect final samples | 11/1/17 | Final samples collected - October 2017 Groundwater sampling event completed | |
| 10/25/17 | New hardware previously installed in IW-01 to be verified as operational | New Hardware is confirmed as operational | 11/1/17 | IW-01 returned to schedule | |
| 11/1/2017 | IR compressor due for service | K&G Power systems on-site for service | 11/1/2017 | Service completed successfully | |
| 11/8/17 | Monthly Inspection | Monthly inspection performed | 11/8/17 | Monthly inspection completed successfully. Intermittent issues observed in IW-06D and IW-07D. After bleeding IW-07D line, and restarting injections, IW-07D appears to be functional | Attempt made to inject air into IW-06D and IW-07D with IR Compressor. This attempt was unsuccessful. IW-06D to be further investigated |
| 11/8/17 | Intermittent issues in IW-06D | Bleed lines and attempt to inject air into IW-06D | 11/15/17 | After bleeding line, attempts to inject air into IW-06D are unsuccessful | IW-06D to remain in the schedule to be further monitored |

Table 2

2017 Summary of O&M Activities
 Supplemental and Biosparge Systems
 Hicksville, New York

| Date Observed | Description of Issue | Action Taken | Date of Action | Outcome of Action | Notes |
|---------------|--------------------------------------|---------------------------------|----------------|--|---|
| 12/7/17 | Monthly Inspection | Monthly inspection performed | 12/7/17 | Monthly inspection completed successfully | Manual opening of IW-06D and IW-07D allows both wells to receive air. Both wells to be further monitored by CA RICH |
| 12/13/17 | Low flow alarms in IW-06D and IW-07I | CA RICH on-site to troubleshoot | 12/13/17 | Actuators and flow meters in IW-06D and IW-07I appear to be functioning properly. However, air injections have not been successful | IW-06I and IW-07D are functioning properly. CA RICH to continue to monitor |

Table 3

**Select Laboratory and Field Parameter Results
Hooker Ruco Site
Hicksville, New York**

| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) | |
|------------------------|------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|------|
| Base Wells | | | | | | | | |
| MW-61I ⁽¹⁾ | 10/24/2006 | NA | NA | NA | 102 | 0.00 | 2.76 | |
| | 10/25/2006 | NA | NA | NA | 112 | 0.41 | 3.04 | |
| | 10/26/2006 | 5 UJ | 5 U | 2 J | 133 | 0.00 | 2.49 | |
| | 11/29/2006 | 5 U/5U | 5 U/5 U | 3 J/2 J | 60 | 0.00 | 1.96 | |
| | 12/21/2006 | 5 U/5 U | 5 U/5 U | 3 J/4 J | 118 | 0.00 | 2.17 | |
| | 1/24/2007 | 5 U | 5 U | 3 J | 101 | 1.93 | 1.84 | |
| | 4/19/2007 | 19 | 95 | 140 | 124 | 3.21 | 0.03 | |
| | 7/20/2007 | 5 U | 5 U | 4 | 90 | 0.37 | 5.19 | |
| | 10/11/2007 | 5 U | 5 U | 2 U | 50 | 3.56 | 3.12 | |
| | 1/24/2008 | 5 UJ | 5 U | 4.8 | 86 | 1.44 | 3.11 | |
| | 4/23/2008 | 2 J | 1 J | 4 | 60 | 0.45 | 2.83 | |
| | 7/16/2008 | 3.7 J | 4.7 J | 5.0 U | 69 | 2.78 | 10.82 | |
| | 10/28/2008 | 2 J | 1 J | 4 | 351 | 7.11 | 1.11 | |
| | 4/8/2009 | 3.7 J | 4.7 J | 5.0 U | 306 | 12.18 | 0.05 | |
| | 10/15/2009 | 7.7 | 11 | 1.4 J | 366 | 17.66 | 0.49 | |
| | 5/10/2010 | 6.9 | 7.8 U | 1.6 J | 120 | 10.65 | 0.0 | |
| | 1/20/2011 | 5.6/3.7 J | 3.9 J/3.7 J | 5.0 U/5.0 UJ | 266 | 11.10 | 0.0 | |
| | 4/19/2011 | 4.6 J/4.6 J | 3.8 J/4.0 J | 5.0 U/ 5.0 | 249 | 10.10 | 0.0 | |
| | 11/30/2011 | 3.7 J | 3.3 J | 5.0 U | NM | 12.81 | NM | |
| | 5/23/2012 | 2.3 J | 3.6 J | 5.0 U | NM | NM | NM | |
| | 11/5/2012 | 4.4 J | 4.8 J | 5.0 U | 111 | 11.23 | 3.99 | |
| | MW-61D1 ⁽¹⁾ | 10/24/2006 | NA | NA | NA | 110 | 0.00 | 2.30 |
| | | 10/25/2006 | NA | NA | NA | 107 | 0.65 | 3.74 |
| 10/26/2006 | | 5 UJ | 5 U | 3 J | 109 | 0.00 | 2.99 | |
| 11/29/2006 | | 5 U | 5 U | 5.7 | 54 | 0.00 | 1.92 | |
| 12/21/2006 | | 5 U | 5 U | 3 J | 90 | 0.00 | 2.59 | |
| 1/23/2007 | | 5 U | 5 U | 3 J | 54 | 1.21 | 1.84 | |
| 4/19/2007 | | 27 | 130 | 200 | 79 | 6.66 | 0.26 | |
| 7/20/2007 | | 5 U/5 U | 5 U/2 J | 4.0/4.0 | 83 | 0.44 | 3.30 | |
| 10/10/2007 | | 5 U | 5 U | 1 J | 26 | 3.39 | 4.20 | |
| 1/24/2008 | | 5 U | 5 U | 3 | 78 | 1.33 | 3.21 | |
| 4/22/2008 | | 5 U | 5 U | 2 U | 60 | 0.41 | 2.91 | |
| 7/16/2008 | | 5 UJ/5 UJ | 5 U/5 U | 2/2 | 87 | 2.35 | 2.13 | |
| 10/28/2008 | | 2 J | 1 J | 2 U | 335 | 3.75 | 0.21 | |
| 4/8/2009 | | 3.9J /3.7 J | 4.4 J/4.3 J | 5.0 U/5.0 U | 267 | 12.77 | 0.08 | |
| 10/15/2009 | | 6.7 | 9.3 | 5.0 U | 336 | 10.11 | 0.96 | |
| 5/10/2010 | | 6.3 | 8.0 U | 1.8 J | 140 | 10.15 | 0.0 | |
| 1/20/2011 | | 5.6 | 3.6 J | 5.0 UJ | 231 | 18.80 | 0.0 | |
| 4/19/2011 | | 3.8 J | 3.0 J | 5.0 U | 248 | 10.38 | 0.0 | |
| 11/30/2011 | | 3.7 J | 3.1 J | 5.0 U | NM | 13.21 | NM | |
| 5/23/2012 | | 2.2 J | 3.1 J | 5.0 U | 170 | 13.55 | 1.8 | |
| 11/5/2012 | | 4.2 J | 3.9 J | 5.0 U | 124 | 11.85 | 3.0 | |
| MW-61D2 ⁽¹⁾ | | 10/24/2006 | NA | NA | NA | 37 | 0.00 | 0.15 |
| | | 10/25/2006 | NA | NA | NA | 27 | 1.42 | 5.46 |
| | 10/26/2006 | 150 J | 450 | 5800 | 62 | 1.94 | 4.04 | |
| | 11/29/2006 | 39 | 150 | 1500 | 110 | 11.12 | 1.91 | |
| | 12/21/2006 | 130 | 490 | 3400 | 120 | 9.28 | 2.36 | |
| | 1/23/2007 | 160 | 590 | 3100 | 131 | >20 | 0.89 | |
| | 4/23/2007 | 140 | 580 J | 2000 | 361 | >20 | 0.21 | |
| | 7/23/2007 | 200 | 640 | 3500 | 71 | 13.45 | 1.34 | |
| | 10/11/2007 | 62 | 210 | 610 | 300 | 11.71 | 0.21 | |
| | 1/24/2008 | 26 | 140 | 46 | 326 | >20 | 0.78 | |
| | 4/22/2008 | 11 | 89 | 11 | 248 | 14.49 | 0.09 | |
| | 7/15/2008 | 40 J | 330 | 39 | 173 | 19.99 | 0.08 | |
| | 10/27/2008 | 25 | 150 | 33 | 381 | >20 | 0.18 | |
| | 4/9/2009 | 110 | 360 | 450 | 319 | 17.47 | 1.95 | |
| | 10/14/2009 | 99 | 300 | 19 | 155 | 16.29 | 2.80 | |
| | 5/10/2010 | 120 | 360 | 240 | 224 | 19.51 | 0.0 | |
| | 11/16/2010 | 78 | 360 | 380 | 55 | 8.75 | -2 | |
| | 4/7/2011 | 110/70 | 240/240 | 18 J/10 J | 196 | 17.58 | (2) | |

**Select Laboratory and Field Parameter Results
Hooker Ruco Site
Hicksville, New York**

| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|------------------------------------|---------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-61D2 ⁽¹⁾ (cont'd) | 5/23/2012 | 13 J | 110 | 12 | 123 | 8.54 | 9 |
| | 5/2/2013 | 30 | 120 | 13 | 196 | 16.37 | >5.0 |
| | 10/29/2013 ⁽⁵⁾ | 30 | 46 | 1.2 J | NM | NM | NM |
| | 4/29/2014 ⁽⁵⁾ | 51 | 73 | 1.2 J | NM | NM | NM |
| | 10/30/2014 ⁽⁵⁾ | 40 J | 59 J | 0.88 J | NM | NM | NM |
| | 4/24/2015 ⁽⁵⁾ | 52 | 150 | 1.3 J | NM | NM | NM |
| | 10/22/2015 | 11 | 18 | 2.0 U | 87 | 12.28 | 5.0 |
| | 4/26/2016 | 39 | 51 | 2.0 U | 69 | 5.76 | 0.35 |
| | 10/21/2016 ⁽⁵⁾ | 28 | 45 | 2.0UJ | NM | NM | 0.27 |
| | 4/28/2017 ⁽⁵⁾ | 59 | 69 | 1.0U | NM | NM | NM |
| 10/19/2017 ⁽⁵⁾ | 62 | 55 | 1.0U | NM | NM | NM | |
| MW-63D1 ⁽²⁾ | 5/24/2010 | 6.4 J | 9.2 | 35 | 166 | 0.00 | 0.0 |
| | 5/1/2013 | 17 | 3.4 J | 13 | 232 | 11.93 | 1.6 |
| | 10/24/2013 | 3.2 J | 5.6 | 45 | 208 | 17.25 | 0.9 |
| | 4/24/2014 | 9.9 | 7.3 | 29 | 276 | 11.59 | 0.0 |
| | 7/17/2014 | 6.9 | 6 | 19 | 158 | 3.50 | 3.2 |
| | 10/21/2014 | 5.5 | 3.8 J | 3.2 J | 121 | 6.91 | 1.5 |
| | 4/22/2015 | 3.4 J | 5.0 U | 2.0 U | 332 | 5.52 | 4.3 |
| | 10/20/2015 | 2.3 J | 3.7 J | 2.0 U | 58 | 33.76 | 0.8 |
| | 4/28/2016 | 6.1 | 2.4 J | 2.0 U | 264 | 5.22 | 0.3 |
| | 10/19/2016 | 11 | 5.0U | 2.0UJ | 54 | 14.10 | 1.8 |
| | 5/11/2017 | 2.1 | 1.0U | 1.0U | 192 | 8.21 | 0.1 |
| | 11/1/2017 | 4.5 | 1.7 | 1.0U | 262 | 5.05 | 0.1 |
| MW-63D2 ⁽²⁾ | 5/24/2010 | 6.4 J | 9.1 | 46 | 169 | 0.00 | 0.00 |
| | 5/1/2013 | 21 | 4.0 J | 13 | 229 | 9.77 | 1.65 |
| | 10/24/2013 | 3.1 J | 5.2 | 46 | -17 | 11.03 | 3.86 |
| | 4/24/2014 | 7.9 | 8.1 | 29 | 202 | 7.95 | 0.11 |
| | 7/17/2014 | 5.6 | 6.1 | 21 | 125 | 2.70 | 3.10 |
| | 10/21/2014 | 5.1 | 3.7 J | 3.2 J | 167 | 6.48 | 1.20 |
| | 4/22/2015 | 2.7 J | 5.0 U | 2.0 U | 280 | 6.09 | 2.30 |
| | 10/20/2015 | 2.4 J | 3.6 J | 2.0 U | 53 | 35.80 | 2.97 |
| | 4/28/2016 | 4.9 J | 1.6 J | 2.0 U | 256 | 5.26 | 0.07 |
| | 10/19/2016 | 5.0J | 5.0U | 2.0UJ | 164 | 8.23 | 0.72 |
| | 5/11/2017 ⁽⁵⁾ | 3.5 | 1.1 | 1.0U | NM | NM | NM |
| | 11/1/2017 | 4.7 | 1.8 | 1.0U | 233 | 6.19 | 0.00 |
| MW-63S ⁽²⁾ | 5/21/2010 | 2.4 J | 4.3 J | 16 | -111 | 0.00 | 0.06 |
| | 5/23/2013 | 10 | 7.8 | 76 | 74 | 4.53 | 1.33 |
| | 11/7/2013 | 9.4 | 7.7 | 5.0 U | 7 | 8.91 | 3.16 |
| | 5/15/2014 ⁽⁵⁾ | 7 | 6 | 18 | NM | NM | 0.00 |
| | 8/6/2014 | 5.0 UJ | 5.5 | 7.2 | 145 | 5.64 | 0.10 |
| | 11/14/2014 | 3.5 J | 3.8 J | 1.5 J | 203 | 7.88 | 25.0 |
| | 5/8/2015 | 5.5 | 5.0 U | 4.7 J | 4 | 11.79 | 0.3 |
| | 11/9/2015 ⁽⁵⁾ | 3.3 J | 2.5 J | 2.0 U | NM | NM | NM |
| | 5/18/2016 ⁽⁵⁾ | 1.9 J | 5.0 U | 2.0 U | NM | NM | NM |
| | 11/2/2016 | 5.0UJ | 5.0U | 2.0UJ | 201 | 9.74 | 0.3 |
| | 4/27/2017 | 1.0U | 1.0U | 1.0U | 249 | 11.91 | 0.5 |
| | 10/18/2017 | 3.9 | 2.7 | 1.0U | 75 | 8.82 | 0.0 |
| MW-63I ⁽²⁾ | 5/21/2010 | 5.4 J | 8.3 | 47 | -102 | 0.00 | 0.0 |
| | 5/23/2013 | 7.9 | 5.5 | 29 | 75 | 4.40 | 1.7 |
| | 11/7/2013 | 12 | 8.2 | 5.0 U | 70 | 11.37 | 0.7 |
| | 5/15/2014 | 1.5 J | 5.0 U | 3.4 J | 36 | 2.83 | 0.0 |
| | 8/6/2014 | 5.0 UJ | 5.9 | 15 | 139 | 2.73 | 0.5 |
| | 11/14/2014 | 4.5 J | 3.3 J | 4.2 J | 35 | 8.41 | 14.5 |
| | 5/8/2015 | 5.8 | 5.0 U | 2.0 U | 87 | 12.34 | 0.8 |
| | 11/9/2015 | 2.3 J | 2.1 J | 0.97 J | 265 | 12.19 | NM |
| | 5/18/2016 | 2.7 J | 5.0 U | 2.0 U | 231 | 13.55 | 0.4 |
| | 11/2/2016 | 5.0UJ | 5.0U | 2.0UJ | 201 | 0.46 | 0.4 |
| | 4/27/2017 | 1.4 | 1.3 | 1.0U | 247 | 8.67 | NM |
| | 10/18/2017 | 1.4 | 1.2 | 1.0U | 210 | 5.44 | 0.0 |

Select Laboratory and Field Parameter Results
 Hooker Ruco Site
 Hicksville, New York

| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|------------------------|---------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-70D1 ⁽²⁾ | 4/11/2011 | 13 | 2.0 J | 46 | -135 | 0.69 | 4.0 |
| | 10/25/2012 | 2.0 J | 5.0 U | 12 | NM | NM | NM |
| | 2/4/2013 | 8.8 | 2.1 J | 43 | 8 | 4.80 | 3.0 |
| | 4/26/2013 | 6.4 | 2.0 J | 26 | 170 | 9.35 | 3.5 |
| | 7/23/2013 ⁽⁵⁾ | 5.3 | 1.3 J | 16 | NM | NM | NM |
| | 10/24/2013 | 5.8 | 1.1 J | 21 | 38 | 12.56 | 2.8 |
| | 1/23/2014 | 4.2 J | 1.9 J | 17 | -109 | 5.06 | 0.0 |
| | 4/23/2014 | 4.1 J | 1.2 J | 20 | 76 | 10.11 | 0.0 |
| | 7/21/2014 | 6.6 | 1.0 J | 16 | 48 | 9.35 | 0.0 |
| | 10/23/2014 | 4.3 J | 0.92 J | 19 | 30 | 6.24 | 2.7 |
| | 4/24/2015 | 3.3 J | 5.0 U | 11 | 107 | 14.38 | 0.0 |
| | 10/22/2015 | 3.5 J | 1.6 J | 8.8 | 62 | 6.00 | 1.6 |
| | 4/27/2016 | 1.5 J | 5.0 U | 5.1 | -17 | 0.08 | 0.4 |
| | 10/20/2016 ⁽⁵⁾ | 5.0UJ | 5.0U | 4.7J | NM | NM | 0.0 |
| | 4/28/2017 | 1.3J | 1.0U | 3.7J | -100 | 3.49 | 0.5 |
| | 10/17/2017 | 1.1 | 0.7J | 3.2 | -15 | 2.55 | 0.0 |
| MW-70D2 ⁽²⁾ | 4/11/2011 | 47 | 56 | 1000 | -122 | 0.66 | 2.0 |
| | 10/25/2012 | 32 | 26 | 190 | -4 | 8.78 | 3.2 |
| | 2/4/2013 | 62 | 23 | 29 | 27 | 11.14 | 0.0 |
| | 4/26/2013 | 51 | 12 | 4.2 J | -19 | 7.89 | >5.0 |
| | 7/23/2013 | 49 | 14 | 5.0 U | 16 | 1.88 | 1.2 |
| | 10/24/2013 | 45 | 13 | 1.6 J | -17 | 3.95 | 0.1 |
| | 1/23/2014 ⁽⁵⁾ | 20 | 8.1 | 5.0 U | NM | NM | NM |
| | 4/23/2014 | 11 | 3.8 J | 5.0 U | 211 | 11.88 | 0.0 |
| | 7/21/2014 | 11 | 1.4 J | 5.0 U | -9 | 9.22 | 0.0 |
| | 10/23/2014 | 1.8 J | 5.0 U | 5.0 U | 39 | 3.82 | 4.5 |
| | 4/24/2015 | 1.6 J | 5.0 U | 2.0 U | -89 | 8.70 | 0.2 |
| | 10/22/2015 | 5.0 U | 5.0 U | 2.0 U | -21 | 4.44 | NM |
| | 4/27/2016 | 5.0 U | 5.0 U | 2.0 U | 108 | 0.00 | 0.0 |
| | 10/20/2016 | 5.0UJ | 5.0U | 2.0UJ | 59 | 0.00 | 0.3 |
| | 4/28/2017 | 1.0U | 1.0U | 1.0U | -73 | 0.76 | 0.0 |
| | 10/17/2017 | 1.0U | 1.0U | 1.0U | 29 | 0.00 | 0.0 |
| MW-72D1 ⁽²⁾ | 4/12/2011 | 13 | 1.9 J | 21 | -159 | 0.57 | 3.5 |
| | 10/25/2012 | 3.2 J | 5.0 U | 5.0 U | 139 | 9.82 | 1.0 |
| | 2/4/2013 | 3.5 J | 1.0 J | 3.0 J | 54 | 4.65 | 1.0 |
| | 5/1/2013 | 1.3 J | 1.0 J | 0.99 J | 103 | 10.48 | 3.7 |
| | 7/23/2013 | 1.9 J | 1.3 J | 5.0 U | -11 | 2.37 | >5.0 |
| | 10/24/2013 | 5.0 U | 5.0 U | 5.0 U | -80 | 4.60 | 4.6 |
| | 1/24/2014 | 5.0 U | 5.0 U | 5.0 U | 36 | 10.78 | NM |
| | 4/23/2014 ⁽⁵⁾ | 1.3 J | 1.6 J | 2.9 J | NM | NM | NM |
| | 7/21/2014 | 5.0 U | 5.0 U | 5.0 U | -21 | 10.13 | 0.0 |
| | 10/23/2014 | 0.74 J | 5.0 U | 5.0 U | 37 | 4.41 | 2.6 |
| | 4/24/2015 | 5.0 U | 5.0 U | 2.0 U | 97 | 13.26 | 0.5 |
| | 10/22/2015 | 5.0 U | 5.0 U | 2.0 U | 6 | 6.38 | 5.0 |
| | 4/28/2016 | 5.0 U | 5.0 U | 2.0 U | 122 | 3.94 | 0.1 |
| | 10/20/2016 | 5.0UJ | 5.0U | 2.0UJ | 105 | 9.86 | 0.0 |
| | 4/27/2017 | 1.0U | 1.0U | 1.0U | 24 | 6.03 | 0.4 |
| | 10/19/2017 | 1.0U | 1.0U | 1.0U | 38 | 0.00 | NM |
| MW-72D2 ⁽²⁾ | 4/13/2011 | 330 | 5.3 | 5.0 U | -210 | 0.37 | 2.0 |
| | 10/25/2012 | 380 | 37 | 5.0 U | 76 | 7.52 | 0.8 |
| | 2/4/2013 | 850 | 51 | 5.0 U | 48 | 7.77 | 0.4 |
| | 5/1/2013 | 540 | 16 | 5.0 U | -32 | 9.69 | >5.0 |
| | 7/23/2013 | 410 | 35 | 5.0 U | -134 | 2.03 | 3.7 |
| | 10/24/2013 | 480 | 25 | 5.0 U | -144 | 3.20 | 3.2 |
| | 1/24/2014 | 400 | 32 | 5.0 U | 67 | 12.96 | NM |
| | 4/23/2014 ⁽⁵⁾ | 450 | 43 | 5.0 U | NM | NM | NM |
| | 7/21/2014 | 500 | 48 | 0.59 J | -2 | 9.43 | 0.3 |
| | 10/23/2014 | 560 | 54 | 5.0 U | 52 | 3.03 | 2.8 |
| | 4/24/2015 | 240 | 37 | 2.0 U | 42 | 9.51 | 0.5 |
| | 10/22/2015 | 190 | 29 | 2.0 U | 9 | 4.73 | 1.9 |
| | 4/28/2016 | 200 | 23 | 2.0 U | 284 | 0.72 | 0.1 |

**Select Laboratory and Field Parameter Results
Hooker Ruco Site
Hicksville, New York**

| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|------------------------------------|--------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-72D2 ⁽²⁾ (cont'd) | 10/20/2016 | 170 | 19 | 2.0UJ | -27 | 0.00 | 0.0 |
| | 4/27/2017 | 78 | 12 | 1.0U | -82 | 1.47 | 0.0 |
| | 10/19/2017 | 85 | 11 | 5.0U | 93 | 8.24 | 0.0 |
| MW-73D1 ⁽²⁾ | 4/25/2011 | 5.0 U | 5.0 U | 5.0 U | -155 | 2.56 | 3.5 |
| | 10/26/2012 | 5.0 U | 5.0 U | 2.6 J | 7 | 11.93 | 5.0 |
| | 2/13/2013 | 5.0 U | 5.0 U | 5.0 U | 296 | 9.91 | 0.0 |
| | 5/1/2013 | 5.0 U | 5.0 U | 5.0 U | -44 | 10.87 | >5.0 |
| | 7/24/2013 | 1.9 J | 5.0 U | 5.0 U | -128 | 0.86 | 3.0 |
| | 10/25/2013 | 1.9 J | 5.0 U | 5.0 U | -51 | 2.94 | 0.3 |
| | 1/24/2014 | 5.0 U | 5.0 U | 5.0 U | 143 | 14.42 | NM |
| | 4/24/2014 | 5.0 U | 5.0 U | 5.0 U | 140 | 3.56 | 0.8 |
| | 7/18/2014 | 0.85 J | 5.0 U | 5.0 U | 21 | 1.22 | 0.0 |
| | 10/30/2014 | 5.0 U | 5.0 U | 5.0 U | 203 | 24.68 | 0.0 |
| | 4/24/2015 | 1.5 J | 5.0 U | 0.75 J | 59 | 15.86 | NM |
| | 10/26/2015 | 2.5 J | 5.0 U | 2.0 U | 63 | 8.44 | 0.1 |
| | 4/27/2016 | 2.9 J | 5.0 U | 2.0 U | 134 | 1.70 | 0.9 |
| | 10/21/2016 | 4.3J | 5.0U | 2.0UJ | 49 | 4.29 | 0.1 |
| | 4/28/2017 | 2.1J | 1.0U | 1.0U | 16 | 2.23 | 1.6 |
| 10/19/2017 | 1.7 | 0.5J | 1.0U | 22 | 1.61 | 0.0 | |
| MW-73D2 ⁽²⁾ | 4/25/2011 | 38 | 20 | 1400 | -53 | 1.86 | 3.5 |
| | 10/26/2012 | 52 | 19 | 130 | 12 | 8.07 | 5.0 |
| | 2/13/2013 | 60 | 23 | 22 | 332 | 12.53 | 0.0 |
| | 5/1/2013 | 26 | 12 | 16 | -95 | 7.63 | >5.0 |
| | 7/24/2013 | 60 | 17 | 3.0 J | -29 | 1.95 | 3.6 |
| | 10/25/2013 | 13 | 6.1 | 0.62 J | -32 | 1.74 | 1.3 |
| | 1/24/2014 ⁽⁵⁾ | 6.3 | 5.7 | 1.1 J | NM | NM | NM |
| | 4/24/2014 | 5.3 | 2.0 J | 5.0 U | 130 | 8.71 | 0.0 |
| | 7/18/2014 | 2.8 J | 5.0 U | 5.0 U | 1 | 1.37 | 0.0 |
| | 10/30/2014 | 35 | 11 | 5.0 U | 55 | 7.73 | >5.0 |
| | 4/24/2015 | 8.5 | 5.0 U | 2.0 U | -58 | 9.53 | 1.4 |
| | 10/26/2015 | 9.2 | 4.0 J | 2.0 U | 45 | 12.23 | 0.5 |
| | 4/27/2016 | 13 | 5.2 | 2.0 U | 92 | 5.38 | 0.0 |
| | 10/21/2016 | 29 | 11 | 2.0UJ | 24 | 0.93 | 0.0 |
| | 4/28/2017 | 34J | 7.8J | 1.0U | -37 | 3.86 | 0.0 |
| 10/19/2017 | 7.2 | 2.5 | 1.0U | 35 | 3.55 | 0.0 | |
| MW-75D1 ⁽²⁾ | 12/1/2011 | 51 | 23 J | 960 | NM | 3.20 | NM |
| | 10/24/2012 | 32 | 18 | 1100 | -35 | 9.41 | 1.6 |
| | 2/4/2013 | 39 | 16 | 1500 | -48 | 6.09 | 0.0 |
| | 4/30/2013 | 25 | 7 | 510 | 1 | 11.07 | 4.1 |
| | 7/24/2013 | 17 | 6.3 | 120 | -138 | 1.32 | 2.2 |
| | 10/24/2013 | 7 | 2.6 J | 28 | 48 | 11.80 | 3.2 |
| | 1/24/2014 | 3.2 J | 2.0 J | 10 | 40 | 12.51 | NM |
| | 4/23/2014 ⁽⁵⁾ | 6.3 | 4.9 J | 9 | NM | NM | NM |
| | 7/18/2014 ⁽⁵⁾ | 10 | 4.9 J | 46 | NM | NM | NM |
| | 10/23/2014 | 9.4 | 2.8 J | 66 | 47 | 3.23 | >5.0 |
| | 4/22/2015 | 5.1 | 5.0 U | 7.2 | 117 | 4.08 | NM |
| | 10/22/2015 | 5.0 U | 5.0 U | 2.0 U | 191 | 6.86 | 5.0 |
| | 4/28/2016 | 4.2 J | 2.4 J | 2.0 U | 194 | 0.00 | 0.1 |
| | 10/20/2016 | 5.0UJ | 5.0U | 2.0UJ | 228 | 6.07 | 0.0 |
| | 4/27/2017 | 1.7 | 2.1 | 1.0U | -85 | 2.54 | 0.1 |
| 10/18/2017 ⁽⁵⁾ | NS | NS | NS | -61 | 0.00 | 0.0 | |
| 11/1/2017 | 3.7 | 3.3 | 1.0U | NS | NS | NS | |
| MW-75D2 ⁽²⁾ | 12/1/2011 | 44 | 88 | 680 | NM | 10.91 | NM |
| | 10/24/2012 | 34 | 63 | 600 | -23 | 2.63 | 0.0 |
| | 2/4/2013 | 46 | 76 | 870 | -55 | 16.33 | 0.0 |
| | 4/30/2013 | 47 | 58 | 530 | 26 | 12.20 | 3.9 |
| | 7/24/2013 | 56 | 87 | 560 | -136 | 1.32 | 2.2 |
| | 10/24/2013 | 27 | 42 | 460 | -92 | 5.56 | 0.0 |
| | 1/24/2014 | 26 | 45 | 330 | 0 | 12.93 | NM |

**Select Laboratory and Field Parameter Results
Hooker Ruco Site
Hicksville, New York**

| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|------------------------------------|---------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-75D2 ⁽²⁾ (cont'd) | 4/23/2014 ⁽⁵⁾ | 31 | 47 | 260 | NM | NM | NM |
| | 7/18/2014 | 20 | 32 | 220 | -37 | 10.65 | 0.0 |
| | 10/23/2014 | 17 J | 35 J | 190 J | 6 | 2.68 | 3.5 |
| | 4/22/2015 | 9.3 | 19 | 150 | -82 | 4.19 | 1.4 |
| | 10/22/2014 ⁽⁵⁾ | 8.3 | 8.6 | 87 | NM | NM | NM |
| | 4/28/2016 | 1.5 J | 5.0 U | 78 | -41 | 0.98 | 0.3 |
| | 10/20/2016 | 5.0UJ | 5.0U | 18J | -140 | 0.00 | 0.0 |
| | 4/27/2017 | 1.0U | 1.6J | 7.6J | -92 | 4.60 | 0.1 |
| | 10/18/2017 | 0.7J | 0.7J | 5 | 103 | 0.00 | 0.3 |
| | MW-76S ⁽²⁾ | 4/6/2011 | 5.0 U | 5.0 U | 2.4 J | -148 | 0.78 |
| 10/25/2012 | | 5.0 U | 5.0 U | 9.2 | 45 | 9.18 | 1.6 |
| 2/6/2013 | | 5.0 U | 5.0 U | 19 | NM | NM | NM |
| 4/24/2013 ⁽⁵⁾ | | 5.0 U | 5.0 U | 5.9 | -70 | 5.76 | 1.25 |
| 7/23/2013 | | 0.95 J | 5.0 U | 5.0 U | -157 | 1.71 | 2.90 |
| 10/25/2013 | | 5.0 U | 5.0 U | 2.3 J | -1 | 4.33 | 0.56 |
| 1/24/2014 | | 1.0 J | 5.0 U | 2.0 J | 125 | 12.79 | 0.0 |
| 4/23/2014 | | 2.0 J | 5.0 U | 5.0 U | 228 | 4.29 | 0.0 |
| 7/18/2014 ⁽⁵⁾ | | 1.3 J | 5.0 U | 7.5 | NM | NM | NM |
| 10/21/2014 ⁽⁵⁾ | | 1.1 J | 5.0 U | 1.5 J | NM | NM | NM |
| 4/22/2015 | | 5.0 U | 5.0 U | 2.0 U | 236 | 5.52 | 2.2 |
| 10/22/2015 | | 1.4 J | 5.0 U | 2.0 U | 42 | 5.77 | 4.8 |
| 4/27/2016 | | 1.4 J | 5.0 U | 2.0 U | 180 | 2.26 | 0.0 |
| 10/20/2016 | | 5.0UJ | 5.0U | 2.0UJ | 62 | 5.70 | 0.0 |
| MW-76I ⁽²⁾ | 4/8/2011 | 5.0 U | 5.0 U | 1000 | 159 | 1.48 | 4.0 |
| | 10/25/2012 | 1.1 J | 5.0 U | 240 | -23 | 8.51 | 4.25 |
| | 2/6/2013 | 5.0 U | 5.0 U | 81 | 4 | 16.35 | 2.2 |
| | 4/24/2013 | 5.0 U | 5.0 U | 50 | -74 | 4.9 | >5.0 |
| | 7/23/2013 | 5.0 U | 5.0 U | 13 | 0 | 2.14 | 2.9 |
| | 10/25/2013 | 5.0 U | 5.0 U | 5.1 | 4 | 3.56 | 0.5 |
| | 1/24/2014 | 0.70 J | 5.0 U | 3.2 J | -8 | 12.62 | 0.7 |
| | 4/23/2014 | 5.0 U | 5.0 U | 1.5 J | 106 | 5.08 | 0.05 |
| | 7/18/2014 ⁽⁵⁾ | 0.74 J | 5.0 U | 0.96 J | NM | NM | NM |
| | 10/21/2014 | 0.96 J | 5.0 U | 0.62 J | 73 | 3.48 | 3.30 |
| | 4/22/2015 | 5.0 U | 5.0 U | 2.0 U | -216 | 4.43 | NM |
| | 10/22/2015 | 1.5 J | 1.2 J | 2.0 U | 16 | 5.48 | 5.00 |
| | 4/27/2016 | 1.4 J | 5.0 U | 2.0 U | 78 | 4.62 | 0.00 |
| | 10/20/2016 | 5.0UJ | 5.0U | 2.0UJ | 17 | 0.27 | 0.00 |
| | 10/17/2017 | 1.6 | 1.5 | 1.0U | -28 | 0 | 0.62 |
| MW-76D1 ⁽²⁾ | 4/11/2011 | 14 | 1.1 J | 52 | -123 | 0.98 | 2.0 |
| | 10/25/2012 | 6.2 | 5.0 U | 52 | -14 | 8.32 | 5.00 |
| | 2/6/2013 | 8.7 | 5.0 U | 28 | -16 | 10.47 | 3.00 |
| | 4/30/2013 ⁽⁵⁾ | 6.4 | 1.1 J | 17 | NM | NM | NM |
| | 7/23/2013 | 4.6 J | 1.0 J | 13 | -148 | 7.76 | 3.94 |
| | 10/25/2013 | 5.6 | 1.1 J | 15 | 97 | 11.27 | 0.08 |
| | 1/24/2014 | 4.2 J | 1.4 J | 9.9 | -117 | 5.04 | NM |
| | 4/23/2014 | 4.1 J | 5.0 U | 9.5 | 153 | 5.70 | 0.05 |
| | 7/21/2014 | 5.0 U | 5.0 U | 3.8 J | 143 | 6.96 | 1.00 |
| | 10/21/2014 | 6.6 | 1.1 J | 7 | 73 | 2.87 | 2.60 |
| | 4/22/2015 | 3.1 J | 5.0 U | 5.4 | 17 | 4.26 | 1.20 |
| | 10/22/2015 | 4.1 J | 1.3 J | 3.9 | -75 | 19.54 | 1.68 |
| | 4/27/2016 | 2.3 J | 5.0 U | 2.3 | -77 | 1.00 | 0.00 |
| | 10/20/2016 | 2.1J | 5.0U | 2.0UJ | -171 | 0.00 | 0.00 |
| | 4/27/2017 | 1.2 | 1.0U | 1.5 | -57 | 1.61 | 0.00 |
| | 10/17/2017 | 1.9 | 0.6J | 1.8 | -34 | 0.00 | 0.00 |

Table 3

**Select Laboratory and Field Parameter Results
Hooker Ruco Site
Hicksville, New York**

| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|--------------------------|---------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-76D2 ⁽²⁾ | 4/8/2011 | 74 | 42 | 1100 | -59 | 1.37 | 4.8 |
| | 10/25/2012 | 44 | 25 | 650 | -19 | 8.71 | 0.0 |
| | 2/6/2013 | 63 | 25 | 1500 | -76 | 16.45 | 0.0 |
| | 4/30/2013 | 51 | 12 | 19 | 15 | 14.13 | 2.2 |
| | 7/23/2013 | 52 | 27 | 5.0 U | -73 | 2.65 | >5.0 |
| | 10/25/2013 | 45 | 19 | 4.9 J | 13 | 5.07 | 5.1 |
| | 1/24/2014 ⁽⁵⁾ | 40 | 18 | 7.6 | NM | NM | NM |
| | 4/23/2014 | 78 | 17 | 5.0 U | 164 | 6.23 | 0.18 |
| | 7/21/2014 | 80 | 18 | 0.79 J | 91 | 8.53 | 0.49 |
| | 10/21/2014 | 26 | 18 | 0.72 J | 103 | 7.54 | >5.0 |
| | 4/22/2015 | 60 | 25 | 2.0 U | -66 | 4.25 | NM |
| | 10/22/2015 | 3.6 J | 1.0 J | 2.0 U | -60 | 4.10 | 5.00 |
| | 4/27/2016 | 2.8 J | 1.0 J | 2.0 U | 51 | 5.90 | 0.00 |
| | 10/20/2016 | 5.0UJ | 5.0U | 2.0UJ | -23 | 1.06 | 0.00 |
| | 4/27/2017 | 4.1J | 1.0J | 1.0U | -23 | 1.14 | 0.38 |
| | 10/17/2017 ⁽⁵⁾ | 5.6 | 2.6 | 1.0U | NM | NM | NM |
| | MW-77D1 | 4/14/2011 | 1.6 J | 1.7 J | 6.2 | -194 | 0.24 |
| 10/25/2012 | | 2.4 J | 5.0 U | 16 | 5 | 9.93 | 0.0 |
| 2/6/2013 ⁽⁵⁾ | | 7.8 | 5.0 U | 24 | NM | NM | NM |
| 4/26/2013 | | 4.1 J | 1.0 J | 17 | -64 | 8.03 | 3.52 |
| 7/24/2013 ⁽⁵⁾ | | 2.6 J/2.7 J | 0.54 J/0.56 J | 3.5 J/3.7 J | NM | NM | NM |
| MW-77D2 ⁽²⁾ | 4/14/2011 | 20 | 28 | 140 | -111 | 0.72 | 4.0 |
| | 10/25/2012 | 5.2 | 12 | 80 | -35 | 14.28 | 0.0 |
| | 2/6/2013 ⁽⁵⁾ | 17/17 | 11/11 | 99/100 | NM | NM | NM |
| | 4/26/2013 | 10 | 7.4 | 150 | -141 | 5.39 | >5.0 |
| | 7/24/2013 | 15 | 22 | 13 | -79 | 2.06 | 1.46 |
| | 10/25/2013 | 40 | 18 | 5.0 U | 27 | 11.71 | 1.17 |
| | 1/23/2014 | 66 | 28 | 1.4 J | -107 | 12.21 | 1.20 |
| | 4/24/2014 | 33 | 18 | 5.0 U | 46 | 3.49 | 0.0 |
| | 7/18/2014 | 52 | 19 | 5.0 U | 78 | 1.37 | 0.0 |
| | 10/21/2014 | 150 | 21 | 5.0 U | 174 | 3.71 | >5.0 |
| | 4/24/2015 | 120 | 23 | 2.0 U | 170 | 13.50 | 0.0 |
| | 10/23/2015 ⁽⁵⁾ | 57 | 21 | 0.74 J | NM | NM | NM |
| | 4/27/2016 | 71 | 20 | 2.0 U | 189 | 5.50 | 0.3 |
| | 10/21/2016 | 170 | 37 | 2.0UJ | 99 | 8.05 | 0.1 |
| | 4/27/2017 | 140J | 41J | 1.0U | 101 | 5.37 | 0.0 |
| 10/18/2017 | 164 | 32 | 5.0U | 101 | 0.46 | 0.1 | |
| MW-81D1 ⁽¹⁾ | 10/24/2006 | NA | NA | NA | 15 | 2.26 | 3.23 |
| | 10/25/2006 | NA | NA | NA | -55 | 3.01 | 9.76 |
| | 10/26/2006 | 15 J | 18 | 790 | -25 | 0.00 | 10.12 |
| | 1/29/2007 | 8 | 9 | 690 | -55 | 2.26 | 2.36 |
| | 4/19/2007 | 20/21 | 61/61 | 580/550 | -128 | 0.00 | 2.06 |
| | 7/23/2007 | 54 | 190 | 490 | -22 | 0.74 | 5.19 |
| | 10/9/2007 | 39 | 110 | 620 | -77 | 3.08 | 4.98 |
| | 4/21/2008 | 14 | 54 | 2 | -99 | 0.92 | 2.69 |
| | 10/28/2008 | 54/54 | 130/130 | 3/2 | 292 | 17.31 | 2.04 |
| | 4/7/2009 | 14 | 48 | 71 | 158 | 0.04 | 5.52 |
| | 10/15/2009 | 28 | 170 | 2.4 J | 216 | 8.90 | 0.71 |
| | 5/6/2010 | 16 | 99 | 180 | 72 | 0.00 | 2.2 |
| | 11/17/2010 | 24 | 110 | 1.1 J | 327 | 3.54 | 0.0 |
| | 4/7/2011 | 20 | 73 | 190 | 27 | 0.48 | 2.2 |
| | 11/30/2011 | 13 | 85 | 0.71 J | NM | 12.58 | NM |
| | 5/23/2012 | 7.3 J | 41 | 0.95 J | 80 | 9.90 | 0.44 |
| | 11/5/2012 | 14 | 86 | 310 | 112 | 12.24 | 2.88 |
| | 5/2/2013 ⁽⁵⁾ | 44 | 190 | 5.0 U | NM | NM | NM |
| | 10/28/2013 | 64 | 190 | 7.5 | -137 | 8.41 | 0.68 |
| | 4/29/2014 | 97 | 220 | 1.8 J | 146 | 8.94 | 0.00 |
| | 10/30/2014 | 96 J | 190 J | 6.3 J | 87 | 19.39 | 0.12 |
| 4/24/2015 ⁽⁵⁾ | 97 | 160 | 1.3 J | NM | NM | NM | |
| 10/21/2015 | 82 | 120 | 2.0 U | 43 | 7.42 | 1.35 | |

Select Laboratory and Field Parameter Results
 Hooker Ruco Site
 Hicksville, New York

| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|------------------------------------|---------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-81D1 ⁽¹⁾ (cont'd) | 4/26/2016 ⁽⁵⁾ | 70 | 110 | 1.8 J | NM | NM | 1.03 |
| | 10/21/2016 | 45 | 53 | 2.1 J | 138 | 12.43 | 1.74 |
| | 4/28/2017 | 70 | 91 | 1.8 | 138 | 10.66 | 0.10 |
| | 10/19/2017 | 54 | 92 | 5.0U | 117 | 24.82 | 0.00 |
| MW-81D2 ⁽¹⁾ | 10/24/2006 | NA | NA | NA | 78 | 16.87 | 2.37 |
| | 10/25/2006 | NA | NA | NA | 73 | 17.96 | 0.40 |
| | 10/26/2006 | 5 J | 26 | 4 J | 93 | 15.00 | 0.74 |
| | 1/24/2007 | 6.2 | 32 | 5 | -39 | 2.90 | 0.98 |
| | 4/18/2007 | 1 J | 14 | 4 J | -110 | 0.00 | 2.71 |
| | 7/19/2007 | 15 | 130 | 40 | 48 | 14.10 | 1.48 |
| | 10/10/2007 | 13 | 81 | 37 | 35 | 7.45 | 9.39 |
| | 4/18/2008 | 2 J | 20 | 2 U | 81 | 4.23 | 0.45 |
| | 10/22/2008 | 6 | 32 | 2 | 107 | >20 | 0.09 |
| | 4/7/2009 | 13 | 150 | 2.4 J | 326 | 10.58 | 0.45 |
| | 10/14/2009 | 6.7 | 53 | 5.5 | 227 | 18.39 | 0.50 |
| | 5/10/2010 | 14 | 63 | 5.0 U | 93 | 9.69 | 0.50 |
| | 11/16/2010 | 21/21 | 130/130 | 5.0 U/5.0 U | 254 | 13.28 | 1 |
| | 4/7/2011 | 67 | 470 | 25 U | 85 | 2.92 | 0.0 |
| | 11/30/2011 | 10 | 130 | 5.0 U | NM | 11.01 | NM |
| | 5/23/2012 | 1.2 J | 18 | 5.0 U | 64 | 10.23 | 1.8 |
| | 11/5/2012 | 9.1 | 110 | 1.4 J | NM | NM | NM |
| | 5/2/2013 | 1.9 J | 11 | 5.0 U | 46 | 17.28 | 3.9 |
| | 10/28/2013 | 1.4 J | 12 | 5.0 U | NM | 2.97 | 0.0 |
| | 4/29/2014 | 5.8 | 29 | 5.0 U | 119 | 8.94 | 0.0 |
| | 10/30/2014 | 18 | 77 | 5.0 U | 86 | 15.60 | NM |
| | 4/24/2015 | 150 | 170 | 2.0 U | -61 | 5.18 | 1.5 |
| | 10/21/2015 | 120 | 130 | 2.0 U | 90 | 7.21 | 1.9 |
| | 4/26/2016 | 95 | 30 | 2.0 U | 43 | 6.46 | 0.0 |
| | 10/21/2016 ⁽⁵⁾ | 43 | 13 | 2.0UJ | NM | NM | 1.1 |
| | 4/28/2017 | 110J | 30J | 1.0U | 37 | 2.76 | 0.2 |
| 10/19/2017 | 76 | 13 | 5.0U | 108 | 0.00 | 0.0 | |
| MW-82D1 ⁽¹⁾ | 10/24/2006 | NA | NA | NA | -119 | 1.93 | 6.14 |
| | 10/25/2006 | NA | NA | NA | -154 | 0.00 | 9.36 |
| | 10/26/2006 | 8 J | 4 J | 1100 | -142 | 2.77 | 6.32 |
| | 11/30/2006 | 8.8 | 7.9 | 1900 | -158 | 0.00 | 1.86 |
| | 12/20/2006 | 8.2 | 15 | 2500 | -149 | 0.00 | 1.98 |
| | 1/25/2007 | 50 | 130 | 5500 | -145 | 1.21 | 1.94 |
| | 4/20/2007 | 5 U | 5 U | 860 | -153 | 0.76 | 2.79 |
| | 7/25/2007 | 120 | 780 J | 3600 | 95 | 15.15 | 2.58 |
| | 10/18/2007 | 19 | 24 | 430 | 125 | 0.73 | 5.25 |
| | 1/23/2008 | 14/14 | 48/49 | 1600/1600 | -38 | 1.89 | 5.82 |
| | 4/25/2008 | 38 | 160 | 85 | 108 | 0.13 | 1.49 |
| | 7/18/2008 | 64 | 230 | 2.2 | 96 | 3.38 | NM |
| | 10/30/2008 | 110 | 230 | 790 | 309 | <20 | NM |
| | 4/13/2009 | 47 | 160 | 1.7 J | 328 | 5.35 | 0.21 |
| | 10/20/2009 | 21 | 84 | 5.0 U | 231 | 8.08 | 0.26 |
| | 5/12/2010 | 16 | 64 | 5.0 U | 53 | 7.01 | 0.0 |
| | 11/17/2010 | 110 | 63 | 3.2 J | 307 | 8.00 | NM |
| | 5/19/2011 | 33/32 | 48/49 | 72/76 | 277 | 6.70 | 0.0 |
| | 12/1/2011 | 12 | 23 | 9.8 | NM | 14.35 | NM |
| | 5/23/2012 | 13 J | 28 | 1.0 J | 138 | 7.91 | 5.0 |
| | 10/26/2012 | 17 | 23 | 34 | 95 | 7.18 | 0.67 |
| | 5/1/2013 ⁽⁵⁾ | 14 | 18 | 41 | NM | NM | NM |
| | 10/25/2013 ⁽⁵⁾ | 14 | 18 | 12 | NM | NM | NM |
| | 4/25/2014 | 16 | 20 | 1.7 J | 177 | 5.83 | 0.00 |
| | 10/30/2014 | 32 J | 27 J | 0.84 J | 56 | 6.75 | 1.40 |
| | 4/24/2015 | 28 | 24 | 0.95 J | 7 | 16.00 | 0.00 |
| 10/21/2015 | 26 | 21 | 2.0 U | -31 | 11.27 | 1.59 | |
| 4/26/2016 | 37 | 21 | 2.0 U | 98 | 9.29 | 1.08 | |
| 10/19/2016 | 24 | 22 | 2.0UJ | -7 | 12.23 | 0.14 | |
| 4/25/2017 | 31 | 18 | 1.0U | 79 | 15.24 | 0.00 | |
| 10/17/2017 | 21 | 15 | 1.0U | 100 | 14.37 | 0.00 | |

**Select Laboratory and Field Parameter Results
Hooker Ruco Site
Hicksville, New York**

| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|------------------------|--------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-82D2 ⁽¹⁾ | 10/24/2006 | NA | NA | NA | -166 | 0.38 | 10.44 |
| | 10/25/2006 | NA | NA | NA | -95 | 1.98 | 11.64 |
| | 10/26/2006 | 61 J | 48 | 1300 | -110 | 3.37 | 8.60 |
| | 11/30/2006 | 88 | 78 | 1300 | -179 | 0.00 | 2.31 |
| | 12/20/2006 | 52 | 50 | 600 | -178 | 0.00 | 0.34 |
| | 1/25/2007 | 150 | 110 | 180 | -147 | 1.70 | 2.01 |
| | 4/20/2007 | 130 | 91 | 47 | -183 | 0.61 | 1.91 |
| | 7/25/2007 | 320 J | 170 J | 80 | -192 | 0.50 | 6.56 |
| | 10/18/2007 | 34 | 3 J | 2100 | -359 | 2.93 | 1.22 |
| | 1/23/2008 | 150 | 84 | 160 | -147 | 1.51 | 4.74 |
| | 4/24/2008 | 25 | 18 | 5 | -352 | 0 | 2.43 |
| | 7/18/2008 | 21 | 14 | 10 | -472 | 0.00 | 16.32 |
| | 10/30/2008 | 110 | 230 | 790 | -3 | 0.84 | 3.01 |
| | 4/13/2009 | 130 | 91 | 3.5 J | 282 | >20 | 0.05 |
| | 10/20/2009 | 86 | 56 | 96 | -260 | 0.07 | 1.13 |
| | 5/12/2010 | 100 | 92 | 7.1 | -137 | 0.00 | 1.0 |
| | 11/18/2010 | 71 | 74 | 8.3 | 276 | 0.83 | 1.2 |
| | 4/27/2011 | 90 | 58 | 5.0 U | -19 | 3.38 | 1 |
| | 12/1/2011 | 42 | 46 | 6.7 | NM | 11.74 | NM |
| | 5/23/2012 | 9.1 J | 22 | 5.0 U | 123 | 7.97 | 5 |
| | 10/26/2012 | 11 | 17 | 3.1 J | 56 | >20 | 3.2 |
| | 5/1/2013 | 7.5 | 5.0 J | 5.0 U | 238 | 8.33 | >5.0 |
| | 10/25/2013 | 4.2 J | 3.9 J | 5.0 U | -127 | 11.22 | 0 |
| | 4/25/2014 | 3.0 J | 3.9 J | 5.0 U | 73 | 3.38 | 0.13 |
| | 10/30/2014 | 6.2 | 4.7 J | 5.0 U | 76 | 0.88 | 0 |
| | 4/24/2015 | 7.3 | 5.0 U | 2.0 U | 132 | 15.04 | 0 |
| | 10/21/2015 | 6.0 | 5.3 | 2.0 U | -61 | 13.98 | 2.9 |
| | 4/26/2016 | 3.2 J | 3.4 J | 2.0 U | 62 | 0.34 | 0.0 |
| | 10/19/2016 | 5.0UJ | 5.0U | 2.0UJ | -13 | 4.34 | 0.3 |
| | 4/25/2017 | 1.0U | 1.0U | 1.0U | 89 | 24.76 | 0.2 |
| 10/17/2017 | 1.0U | 1.0U | 1.0U | -24 | 2.38 | 0.1 | |
| MW-83D1 ⁽¹⁾ | 10/24/2006 | NA | NA | NA | 70 | 0.00 | 1.94 |
| | 10/25/2006 | NA | NA | NA | -146 | 0.00 | 0.23 |
| | 10/26/2006 | 31 | 290 | 140 | -64 | 2.06 | 0.06 |
| | 1/30/2007 | 44 | 320 | 130 | 6 | 1.74 | 0.01 |
| | 4/18/2007 | 5 U | 29 | 7.7 | -70 | 0.00 | 0.0 |
| | 7/17/2007 | 130 | 360 | 310 | -14 | 0.41 | 0.04 |
| | 10/12/2007 | 68 | 200 | 220 | 64 | 3.00 | 0.13 |
| | 1/22/2008 | 140 | 420 | 51 | 174 | 8.34 | 0.12 |
| | 4/17/2008 | 40 | 160 | 2 | 151 | 2.32 | 0.03 |
| | 7/15/2008 | 130 J | 340 | 34 | 216 | 1.91 | NM |
| | 10/24/2008 | 110/110 | 200/200 | 2/2 | 291 | 8.31 | 0.04 |
| | 4/8/2009 | 80 | 190 | 4.3 J | 274 | 1.44 | 0.09 |
| | 10/14/2009 | 110 | 260 | 3.8 J | 361 | 13.17 | 0.41 |
| | 5/5/2010 | 96 | 240 | 260 | 284 | 3.50 | NM |
| | 11/15/2010 | 39 | 180 | 13 | 271 | 9.14 | 0.0 |
| | 4/7/2011 | 52 J | 180 J | 30 J | 135 | 4.18 | 0.0 |
| | 11/30/2011 | 13 | 150 | 8.4 | NM | >20 | NM |
| | 5/23/2012 | 9.8 J | 120 | 1.2 J | 132 | 12.32 | 0.0 |
| | 10/24/2012 | 25 | 180 | 5.0 U | 276 | 7.22 | 0.0 |
| | 5/1/2013 | 30 | 290 | 1.4 J | 212 | 19.10 | 2.9 |
| | 10/29/2013 | 45 | 200 | 9 | NM | 13.65 | 0.5 |
| | 4/29/2014 ⁽⁵⁾ | 40 | 210 | 2.1 J | NM | NM | NM |
| | 10/30/2014 | 50 J | 200 J | 2.6 J | 112 | 11.80 | 1.2 |
| | 4/24/2015 | 37 | 41 | 2.0 U | 181 | 17.82 | 0.2 |
| | 10/22/2015 | 48 | 140 | 1.5 J | 59 | 7.04 | 1.2 |
| | 4/26/2016 | 55 | 120 | 1.1 J | 109 | 7.63 | 0.1 |
| | 10/21/2016 | 59 | 100 | 2.0UJ | 128 | 10.05 | 0.1 |
| | 4/28/2017 | 63J | 110J | 1.2J | 68 | 10.60 | 0.7 |
| | 10/20/2017 | 89 | 173 | 2.0UJ | 116 | 15.19 | 0.0 |

**Select Laboratory and Field Parameter Results
Hooker Ruco Site
Hicksville, New York**

| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|------------------------|---------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-83D2 ⁽¹⁾ | 10/24/2006 | NA | NA | NA | 241 | >19.99 | 9.88 |
| | 10/25/2006 | NA | NA | NA | 179 | >20 | 0.0 |
| | 10/26/2006 | 17 | 110 | 74 | 171 | >20 | 0.06 |
| | 1/29/2007 | 13 | 75 | 22 | 249 | 13.20 | 0.0 |
| | 4/18/2007 | 3 J | 23 | 1 J | 97 | 0.00 | 0.0 |
| | 7/17/2007 | 7.9 | 43 | 1 J | 289 | >19.99 | 0.08 |
| | 10/15/2007 | 2 J | 10 | 2 U | 279 | 11.44 | 0.23 |
| | 1/22/2008 | 3 | 12 | 2 U | 328 | >20 | 0.14 |
| | 4/17/2008 | 5/4 J | 22/21 | 2 U/2 U | 295 | >20 | 0.04 |
| | 7/15/2008 | 8.3 J | 46 | 2 U | 270 | 8.50 | 0.04 |
| | 10/21/2008 | 2 J | 14 | 2 U | 297 | 0.92 | 0.00 |
| | 4/8/2009 | 5.2 | 30 | 5.0 U | 370 | 20.00 | 0.01 |
| | 10/13/2009 | 6 | 34 | 5.0 U | 380 | 19.81 | 0.01 |
| | 5/6/2010 | 18 | 110 | 5.0 U | 190 | 11.32 | NM |
| | 11/16/2010 | 6.2 | 42 | 5.0 U | 370 | 16.45 | 0.0 |
| | 4/7/2011 | 17 | 96 | 5.0 U | 249 | 17.54 | 0.0 |
| | 11/30/2011 | 12/12 | 98/150 | 5.0 U/8.1 | NM | 16.99 | NM |
| | 5/23/2012 | 1.8 J | 21 | 5.0 U | 79 | 12.67 | 0.0 |
| | 10/24/2012 | 7 | 71 | 5.0 U | 225 | 9.81 | 0.0 |
| | 5/1/2013 | 28 | 74 | 5.0 U | 162 | 12.34 | 1.0 |
| | 10/29/2013 | 40 | 170 | 5.0 U | -63 | 8.73 | 0.3 |
| | 4/29/2014 | 19 | 100 | 5.0 U | 172 | 8.38 | 0.0 |
| | 10/30/2014 ⁽⁵⁾ | 43 J | 150 J | 5.0 U | NM | NM | NM |
| | 4/24/2015 | 27 | 94 | 2.0 U | 240 | 19.73 | 0.6 |
| | 10/22/2015 ⁽⁵⁾ | 53 | 120 | 2.0 U | NM | NM | NM |
| | 4/26/2016 | 66 | 140 | 2.0 U | 129 | 1.30 | 0.0 |
| | 10/21/2016 ⁽⁵⁾ | 93 | 170 | 2.0UJ | NM | NM | 0.4 |
| | 4/28/2017 | 120J | 190J | 1.0U | 97 | 4.25 | 0.5 |
| | 10/20/2017 | 104 | 156 | 2.0UJ | 143 | 1.93 | 0.2 |
| | MW-84D1 ⁽¹⁾ | 10/24/2006 | NA | NA | NA | 50 | 7.89 |
| 10/25/2006 | | NA | NA | NA | 86 | 8.03 | 1.37 |
| 10/26/2006 | | 47 | 350 | 430 | 78 | 6.51 | 1.19 |
| 1/30/2007 | | 66 | 640 | 150 | 160 | 7.53 | 1.24 |
| 4/24/2007 | | 32 | 560 | 11 | 282 | >20 | 0.05 |
| 7/24/2007 | | 47 | 180 | 12 | 301 | >20 | 0.05 |
| 10/17/2007 | | 15/15 | 48/56 | 2.1/2.4 | 304 | 8.81 | 0.62 |
| 1/28/2008 | | 19 | 32 | 2 U | 303 | >20 | 0.0 |
| 4/24/2008 | | 3 J | 4 J | 2 U | 210 | 0.6 | 0.03 |
| 7/17/2008 | | 7.1 | 12 | 2 U | 95 | 14.51 | 0.13 |
| 10/29/2008 | | 7 | 7 | 2 U | 319 | 12.18 | 0.0 |
| 4/9/2009 | | 23 | 24 | 5.0 U | 214 | 13.34 | 0.0 |
| 10/19/2009 | | 5.0 U | 2.3 J | 5.0 U | 271 | 10.98 | 0.19 |
| 5/12/2010 | | 1.4 J | 5.0 U | 5.0 U | 127 | 9.85 | NM |
| 11/18/2010 | | 3.9 J | 3.5 J | 5.0 U | 207 | 7.94 | NM |
| 4/27/2011 | | 27/33 | 8.5/10 | 5.0 U/5.0 U | 210 | 7.54 | NM |
| 12/1/2011 | | 94 | 35 | 0.52 J | NM | 13.98 | NM |
| 5/24/2012 | | 4.3 J | 4.4 J | 5.0 U | 185 | 10.30 | 0.00 |
| 10/26/2012 | | 80 | 54 | 5.0 U | 72 | 7.29 | 1.08 |
| 5/1/2013 | | 81 | 29 | 5.0 U | 250 | 12.62 | 0.72 |
| 10/25/2013 | | 83 | 35 | 5.0 U | 23 | 12.48 | 1.50 |
| 4/25/2014 | | 41 | 30 | 5.0 U | 134 | 6.86 | 0.26 |
| 10/23/2014 | | 51 | 25 | 5.0 U | 110 | 7.66 | 2.00 |
| 4/24/2015 | | 54 | 21 | 2.0 U | 169 | 14.19 | 0.00 |
| 10/21/2015 | | 50 | 23 | 2.0 U | -9 | 6.83 | 2.76 |
| 4/26/2016 | | 23 | 18 | 2.0 U | 168 | 3.91 | 0.88 |
| 10/20/2016 | | 33 | 19 | 2.0UJ | -10 | 6.52 | 0.00 |
| 4/25/2017 | | 15 | 12 | 1.0U | 89 | 17.68 | 0.00 |
| 10/17/2017 | | 21 | 11 | 1.0U | 120 | 2.87 | 0.54 |

**Select Laboratory and Field Parameter Results
Hooker Ruco Site
Hicksville, New York**

| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|---------------------------|---------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-84D2 ⁽¹⁾ | 10/24/2006 | NA | NA | NA | -90 | 4.69 | 1.53 |
| | 10/25/2006 | NA | NA | NA | -47 | 2.84 | 0.27 |
| | 10/26/2006 | 19 J | 92 | 140 | -77 | 2.67 | 0.64 |
| | 1/29/2007 | 15 | 94 | 150 | 7 | 3.91 | 0.18 |
| | 4/24/2007 | 69 | 510 | 33 | 138 | 16.31 | 0.30 |
| | 7/24/2007 | 59 | 440 | 20 | 139 | >20 | 0.21 |
| | 10/17/2007 | 16 | 170 | 7.1 | 34 | 4.68 | 0.23 |
| | 1/28/2008 | 27 | 250 J | 5 | 97 | 9.91 | 0.79 |
| | 4/23/2008 | 11 | 100 | 2 U | 6 | 3.96 | 0.09 |
| | 7/17/2008 | 20 | 130 | 2 U | 13 | 14.05 | 0.27 |
| | 10/29/2008 | 21 | 110 | 2 U | 160 | 8.33 | 0.25 |
| | 4/9/2009 | 15 J | 74 J | 5.0 U | 70 | 10.15 | 0.08 |
| | 10/16/2009 | 14 | 110 | 5.0 U | 135 | 14.65 | 1.45 |
| | 5/25/2010 | 23 J | 190 | 1.6 J | -20 | 11.75 | 0.0 |
| | 11/18/2010 | 8.6 | 79 | 5.0 U | -21 | 0.79 | 0.0 |
| | 4/15/2011 | 1.0 J | 9.4 | 5.0 U | -49 | 0.37 | 0.0 |
| | 12/1/2011 | 7.7 | 110 | 5.0 U | NM | 11.00 | NM |
| | 5/24/2012 | 5.7 | 75 | 5.0 U | 114 | 4.83 | 0.5 |
| | 10/26/2012 | 5.4 | 65 | 5.0 U | -28 | 3.14 | 5.0 |
| | 5/1/2013 ⁽⁵⁾ | 50 | 170 | 5.0 U | NM | NM | NM |
| | 10/25/2013 | 21 | 120 | 5.0 U | -45 | 12.51 | NA |
| | 4/25/2014 | 28 | 150 | 5.0 U | 21 | 1.72 | 0.26 |
| | 10/23/2014 | 19 | 100 | 5.0 U | 54 | 3.49 | 1.30 |
| | 4/24/2015 | 22 | 92 | 2.0 U | 89 | 8.35 | 0.00 |
| | 10/21/2015 | 20 | 78 | 2.0 U | -87 | 8.85 | 5.00 |
| | 4/26/2016 ⁽⁵⁾ | 15 | 58 | 2.0 U | NM | NM | NM |
| | 10/20/2016 ⁽⁵⁾ | 15 | 59 | 2.0UJ | NM | NM | 0.00 |
| | 4/25/2017 | 15 | 49 | 1.0U | 69 | 0.48 | 0.00 |
| | 10/17/2017 | 7.2 | 27 | 1.0U | 29 | 0.00 | 0.00 |
| | MW-85S ⁽²⁾ | 4/20/2011 | 3.6 J | 5.0 U | 5.0 U | 46 | 4.38 |
| 10/26/2012 | | 2.0 J | 0.60 J | 0.89 J | NM | NM | NM |
| 2/4/2013 | | 2.5 J | 5.0 U | 5.0 U | NM | NM | NM |
| 4/30/2013 | | 1.0 J | 5.0 U | 5.0 U | 180 | 7.88 | >5.0 |
| 7/24/2013 | | 5.0 U | 5.0 U | 5.0 U | 12 | 1.39 | 0.4 |
| 10/28/2013 ⁽⁵⁾ | | 5.0 U | 5.0 U | 5.0 U | NM | NM | NM |
| 1/27/2014 | | 0.97 J | 5.0 U | 5.0 U | 112 | 11.37 | NM |
| 4/24/2014 | | 0.99 J | 5.0 U | 5.0 U | 161 | 5.97 | 0.0 |
| 7/17/2014 | | 1.1 J | 5.0 U | 5.0 U | 26 | 4.98 | NM |
| 10/31/2014 | | 2.3 J | 5.0 U | 5.0 U | 20 | 9.22 | 1.4 |
| 4/23/2015 ⁽⁵⁾ | | 5.0 U | 5.0 U | 2.0 U | NM | NM | NM |
| 10/20/2015 | | 0.75 J | 5.0 U | 2.0 U | -44 | 29.15 | 0.4 |
| 5/18/2016 ⁽⁵⁾ | | 5.0 U | 5.0 U | 2.0 U | NM | NM | NM |
| 10/18/2016 | 5.0UJ | 5.0U | 2.0UJ | -45 | 2.63 | 0.0 | |
| MW-85I ⁽²⁾ | 4/20/2011 | 5.2 | 5.0 U | 5.0 U | 93 | 2.90 | 2.4 |
| | 10/26/2012 | 2.6 J | 0.54 J | 5.0 U | NM | NM | NM |
| | 2/4/2013 | 1.9 J | 5.0 U | 5.0 U | NM | NM | NM |
| | 4/30/2013 | 1.7 J | 0.68 J | 5.0 U | -57 | 5.63 | >5.0 |
| | 7/24/2013 | 1.3 J | 0.53 J | 5.0 U | -139 | 0.42 | 0.1 |
| | 10/28/2013 | 2.7 J | 5.0 U | 5.0 U | -137 | 10.87 | 1.3 |
| | 1/27/2014 | 2.2 J | 0.78 J | 5.0 U | -61 | 10.43 | NM |
| | 4/24/2014 | 1.2 J | 5.0 U | 5.0 U | 87 | 10.21 | 0.19 |
| | 7/17/2014 | 1.2 J | 0.67 J | 5.0 U | 92 | 5.36 | 2.30 |
| | 10/31/2014 | 1.2 J | 0.68 J | 5.0 U | 24 | 9.22 | >5.0 |
| | 4/23/2015 | 2.4 J | 5.0 U | 2.0 U | 59 | 6.55 | 0.34 |
| | 10/20/2015 | 2.2 J | 5.0 U | 2.0 U | -3 | 17.60 | NM |
| | 4/25/2016 | 3.4 J | 2.5 J | 2.0 U | 237 | 15.03 | NM |
| | 10/18/2016 | 5.5 | 5.0U | 2.0UJ | -124 | 0.33 | 0.00 |
| 10/16/2017 | 4.4 | 3.6 | 1.0U | NM | 0.00 | 0.00 | |

Select Laboratory and Field Parameter Results
 Hooker Ruco Site
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| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|---------------------------|---------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-85D1 ⁽²⁾ | 4/20/2011 | 34/31 | 10/9.9 | 70/70 | -33 | 3.75 | (3) |
| | 10/26/2012 | 5.0 U | 5.0 U | 9.9 | 18 | >20 | 5.0 |
| | 2/4/2013 | 5.8 | 9.2 | 17 | 1 | 7.26 | 2.0 |
| | 4/30/2013 | 15 | 14 | 1.4 J | 28 | 9.02 | >5.0 |
| | 7/24/2013 | 9.5 | 17 | 4.4 J | -130 | 2.06 | >5.0 |
| | 10/28/2013 ⁽⁵⁾ | 22 | 26 | 7.9 | NM | NM | NM |
| | 1/27/2014 | 25 | 21 | 12 | -83 | 11.37 | NM |
| | 4/24/2014 | 30 | 23 | 5.7 | 50 | 6.35 | 0.0 |
| | 7/17/2014 | 20 | 26 | 7.2 | 39 | 4.68 | 2.0 |
| | 10/31/2014 | 13 | 16 | 5.0 U | -10 | 11.29 | >5.0 |
| | 4/23/2015 | 4.6 J | 14 | 2.0 U | 120 | 11.43 | 0.0 |
| | 10/20/2015 | 3.3 J | 9.7 | 2.0 U | 33 | 21.24 | 0.0 |
| | 4/25/2016 | 4.1 J | 10 | 2.0 U | 186 | 10.27 | 0.0 |
| | 10/18/2016 | 6.9 | 12 | 2.0UJ | 19 | 11.24 | 0.0 |
| | 4/25/2017 ⁽⁵⁾ | 4.4 | 4.9 | 1.0 | NM | NM | NM |
| 10/16/2017 | 1.4 | 1.6 | 2.1 | 110 | 0.33 | 1.4 | |
| MW-85D2 ⁽²⁾ | 4/20/2011 | 170 | 160 | 1100 | -190 | 1.59 | 4.0 |
| | 10/26/2012 | 66 | 37 | 280 | 29 | 14.34 | 5.0 |
| | 2/4/2013 | 21/23 | 24/25 | 40/40 | NM | NM | NM |
| | 4/30/2013 | 9.2 | 21 | 25 | 155 | 7.90 | >5.0 |
| | 7/24/2013 | 27 | 44 | 15 | 6 | 1.89 | 1.6 |
| | 10/28/2013 | 5.7 | 8.3 | 2.6 J | -98 | 3.03 | 0.7 |
| | 1/27/2014 | 11 | 21 | 2.3 J | -98 | 12.81 | NM |
| | 4/24/2014 | 5.9 | 13 | 0.93 J | 36 | 9.77 | 0.09 |
| | 7/17/2014 | 6.8 | 14 | 5.0 U | 13 | 2.82 | 2.60 |
| | 10/31/2014 | 4.7 J | 12 | 5.0 U | -46 | 7.77 | 1.60 |
| | 4/23/2015 | 1.8 J | 5.0 U | 2.0 U | 141 | 11.07 | NM |
| | 10/20/2015 ⁽⁵⁾ | 1.0 J | 4.3 J | 2.0 U | NM | NM | NM |
| | 4/25/2016 | 2.3 J | 5.4 | 2.0 U | 174 | 5.79 | 0.24 |
| | 10/18/2016 | 11 | 21 | 4.9J | 27 | 9.45 | NM |
| | 4/25/2017 | 2.4 | 4.6 | 1.0U | 109 | 4.88 | 0.00 |
| 10/16/2017 ⁽⁵⁾ | 4.2 | 5.6 | 1.0U | NM | NM | NM | |
| MW-86D1 ⁽²⁾ | 4/18/2011 | 2.7 J | 5.0 U | 14 | -107 | 0.74 | 2.0 |
| | 10/24/2012 | 2.4 J | 0.66 J | 36 | 67 | >20 | 0.68 |
| | 2/6/2013 | 6.3 | 5.0 U | 44 | 87 | 14.5 | 1.0 |
| | 4/29/2013 | 6 | 1.5 J | 62 | 135 | 5.99 | 2.5 |
| | 7/24/2013 | 3.1 J | 1.3 J | 24 | -103 | 2.61 | 0.0 |
| | 10/29/2013 ⁽⁵⁾ | 5 | 1.8 J | 78 | NM | NM | NM |
| | 1/23/2014 | 6.7 | 1.6 J | 150 | 27 | 14.90 | NM |
| | 4/29/2014 | 8.2 | 1.3 J | 160 | 25 | 3.56 | 0.1 |
| | 7/17/2014 | 9.5 | 0.89 J | 180 | -102 | 4.35 | 3.0 |
| | 10/31/2014 | 13 | 1.3 J | 110 | 39 | 6.42 | 0.0 |
| | 4/24/2015 | 6.4 | 5.0 U | 33 | -37 | 7.48 | 0.1 |
| | 10/26/2015 | 3.0 J | 5.0 U | 2.0 U | -59 | 10.56 | 0.6 |
| | 4/28/2016 | 2.3 J | 5.0 U | 2.0 U | 56 | 0.46 | 0.2 |
| | 10/21/2016 | 5.0UJ | 5.0U | 2.0UJ | 87 | 1.30 | 0.1 |
| | 4/28/2017 | 1.1J | 1.0U | 1.0U | 46 | 6.08 | 0.1 |
| 10/20/2017 | 1.2 | 1.0J | 1.0U | 175 | 11.97 | 0.0 | |
| MW-86D2 ⁽²⁾ | 4/18/2011 | 19 | 280 | 5.0 U | -107 | 1.24 | 3.0 |
| | 10/24/2012 | 8.2 | 170 | 5.0 U | -115 | 2.49 | 0.39 |
| | 2/6/2013 | 17 | 370 | 0.54 J | -45 | 13.05 | 2.0 |
| | 4/29/2013 | 17 | 320 | 0.51 J | -64 | 5.44 | 3.4 |
| | 7/24/2013 | 13 | 270 | 5.0 U | -165 | 0.93 | 1.8 |
| | 10/29/2013 | 10 | 200 | 5.0 U | -43 | 4.30 | 0.0 |
| | 1/23/2014 | 14 | 240 | 5.0 U | -101 | 12.18 | 0.0 |
| | 4/29/2014 | 17 | 230 | 5.0 U | 168 | 5.83 | 0.0 |
| | 7/17/2014 ⁽⁵⁾ | 15 | 170 | 0.79 J | NM | NM | NM |
| | 10/31/2014 | 12 | 180 | 5.0 U | 39 | 6.63 | 0.7 |
| | 4/24/2015 | 9.9 | 130 | 2.0 U | -89 | 10.90 | 0.0 |
| | 10/26/2015 | 7.4 | 83 | 2.0 U | -59 | 8.69 | 0.1 |

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| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|------------------------------------|---------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-86D2 ⁽²⁾ (cont'd) | 4/28/2016 | 9.8 | 58 | 2.0 U | 24 | 2.12 | 0.5 |
| | 10/21/2016 | 12 | 62 | 2.0UJ | -77 | 0.00 | 0.0 |
| | 4/28/2017 | 28J | 71J | 1.0U | -125 | 1.35 | 0.5 |
| | 10/20/2017 | 29 | 150 | 2.0U | -10 | 0.00 | 0.0 |
| MW-87D1 ⁽¹⁾ | 10/24/2006 | NA | NA | NA | 234 | 0.70 | 0.17 |
| | 10/25/2006 | NA | NA | NA | 221 | 0.00 | 0.35 |
| | 10/26/2006 | 96 J | 320 | 230 | 226 | 2.63 | 0.05 |
| | 1/24/2007 | 74 | 410 | 220 | 248 | 0.78 | 0.10 |
| | 4/17/2007 | 56 | 470 | 160 | 169 | 0.00 | 0.14 |
| | 7/17/2007 | 83 | 400 | 190 | 223 | 0.44 | 0.09 |
| | 10/8/2007 | 37 | 190 | 190 | 203 | 4.39 | 0.40 |
| | 4/16/2008 | 52 | 240 | 4 | 322 | 8.35 | 0.05 |
| | 10/21/2008 | 99 | 360 | 10 | 463 | >20 | 0.00 |
| | 4/7/2009 | 10 | 22 | 5.0 U | 289 | 8.62 | 0.00 |
| | 10/13/2009 | 100 | 410 | 16 | 379 | 16.18 | 0.17 |
| | 5/3/2010 | 170/170 | 360/330 | 41/44 | 282 | 5.74 | 0.0 |
| | 11/29/2010 | 5.0 U/3.8 J | 4.8 J/17 | 5.0 UJ/5.0 UJ | 192 | 2.75 | 0.0 |
| | 4/19/2011 | 150 | 420 | 250 | 300 | 3.72 | 0.0 |
| | 11/30/2011 | 95 | 300 | 3.2 J | NM | 13.98 | NM |
| | 5/24/2012 | 73 J | 270 | 75 | 149 | 11.51 | 1.4 |
| | 11/5/2012 | 53 | 290 | 2.1 J | 105 | >20 | 1.6 |
| | 5/2/2013 ⁽⁵⁾ | 43 | 160 | 1.4 J | NM | NM | NM |
| | 10/28/2013 | 26 | 36 | 5.0 U | -67 | 13.76 | 0.1 |
| | 4/29/2014 | 88 | 58 | 2.2 J | 201 | 8.53 | 0.0 |
| | 7/21/2014 | 140 | 22 | 5.0 U | 177 | 13.90 | 1.4 |
| | 10/31/2014 | 150 | 19 | 5.0 U | 123 | 12.91 | 1.3 |
| | 4/24/2015 | 130 | 23 | 2.0 U | -75 | 19.54 | 1.7 |
| | 10/22/2015 | 130 | 18 | 2.0 U | 179 | 8.49 | 3.8 |
| | 4/26/2016 | 99 | 11 | 2.0 U | 71 | 9.20 | 0.2 |
| | 10/21/2016 | 66 | 10 | 2.0UJ | 168 | 9.77 | 0.5 |
| | 4/26/2017 | 69 | 12 | 1.0U | 163 | 12.35 | 0.4 |
| 10/19/2017 | 49 | 4.3 | 1.0U | 215 | 31.89 | 0.0 | |
| MW-87D2 ⁽¹⁾ | 10/24/2006 | NA | NA | NA | 212 | 4.00 | 0.08 |
| | 10/25/2006 | NA | NA | NA | 137 | 6.68 | 0.09 |
| | 10/26/2006 | 13 | 77 | 5 U | 226 | 4.53 | 0.02 |
| | 1/24/2007 | 25 | 96 | 5 U | 131 | 3.64 | 0.25 |
| | 4/17/2007 | 14 | 56 | 5 U | 106 | 3.89 | 0.09 |
| | 7/16/2007 | 16 | 54 | 2 U | 145 | 3.31 | 0.07 |
| | 10/9/2007 | 14 | 32 | 2 U | 287 | 7.45 | 0.12 |
| | 4/16/2008 | 12 | 23 | 2 U | 288 | 5.39 | 0.01 |
| | 10/21/2008 | 17 | 31 | 2 U | 440 | 9.66 | 0.00 |
| | 4/7/2009 | 76 | 370 | 5.0 U | 346 | 9.90 | 0.06 |
| | 10/13/2009 | 15 | 43 | 5.0 U | 341 | 5.30 | 0.26 |
| | 5/5/2010 | 18 | 55 | 5.0 U | 222 | 4.15 | NM |
| | 11/15/2010 | 35 | 470 | 2.7 J | 397 | 12.41 | 0.0 |
| | 4/18/2011 | 22 | 75 | 5.0 U | 234 | 3.46 | 0.0 |
| | 11/30/2011 | 18 | 110 | 5.0 U | NM | 11.08 | NM |
| | 5/24/2012 | 16 J/15 J | 180/180 | 5.0 U/5.0 U | NM | NM | 2.1 |
| | 11/5/2012 | 25 | 170 | 5.0 U | 86 | >20 | 1.0 |
| | 5/2/2013 | 35 | 170 | 5.0 U | 312 | 15.02 | 2.2 |
| | 10/28/2013 | 150 | 150 | 5.0 U | 9 | 4.86 | 0.4 |
| | 4/29/2014 | 200 | 110 | 5.0 U | 160 | 5.63 | 0.0 |
| | 7/21/2014 | 420 | 98 | 5.0 U | 206 | 7.98 | 0.0 |
| | 10/31/2014 | 380 | 120 | 5.0 U | 149 | 10.72 | 3.1 |
| | 4/24/2015 | 300 | 100 | 2.0 U | 172 | 14.19 | 2.8 |
| | 10/22/2015 | 470 | 150 | 2.0 U | 184 | 7.70 | 0.5 |
| | 4/26/2016 | 420 | 170 | 5.0 U | 231 | 3.15 | 0.5 |
| | 10/21/2016 ⁽⁵⁾ | NA | NA | NA | 168 | 3.61 | NM |
| | 4/26/2017 | 940 | 120 | 1.0U | 154 | 4.60 | 0.1 |
| 10/19/2017 | 909 | 165 | 20U | 199 | 2.83 | 0.0 | |

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| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|------------------------|---------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-88D1 ⁽¹⁾ | 10/24/2006 | NA | NA | NA | -43 | 0.00 | 11.04 |
| | 10/25/2006 | NA | NA | NA | -13 | 0.00 | 10.20 |
| | 10/26/2006 | 39 J | 9 | 58 | 33 | 3.36 | 6.56 |
| | 1/30/2007 | 36 | 7 | 74 | -45 | 1.16 | 2.01 |
| | 4/19/2007 | 32 | 13 | 330 | 172 | 11.88 | 1.84 |
| | 7/26/2007 | 37 | 28 J | 1500 | 232 | 9.48 | 0.74 |
| | 10/16/2007 | 66 | 270 | 1100 | 3 | 0.02 | 5.47 |
| | 4/25/2008 | 20 | 27 | 310 | 225 | 5.95 | 0.52 |
| | 10/30/2008 | 40 | 29 | 320 | 339 | >20 | 0.00 |
| | 4/13/2009 | 27 | 17 | 410 | 205 | 16.71 | 0.31 |
| | 10/21/2009 | 18/14 | 24/24 | 510/330 | 253 | >20 | 0.47 |
| | 5/11/2010 | 28 | 32 | 320 | 177 | 19.00 | 0.50 |
| | 11/17/2010 | 14 | 20 | 440 | 366 | 13.04 | 0.0 |
| | 4/15/2011 | 19 | 19 | 160 | 184 | 14.39 | 0.0 |
| | 12/1/2011 | 15 | 20 | 11 | NM | 17.16 | NM |
| | 5/24/2012 | 5.4 J | 14 | 11 | 65 | 8.82 | 0.0 |
| | 10/26/2012 | 12 | 17 | 8.2 | 83 | 10.88 | 1.15 |
| | 5/1/2013 | 5.4 | 6.8 | 0.92 J | 202 | 13.77 | 1.22 |
| | 10/28/2013 ⁽⁵⁾ | 12 | 12 | 3.2 J | NM | NM | NM |
| | 4/25/2014 | 8.7 | 14 | 1.1 J | 197 | 8.44 | 0.06 |
| | 10/30/2014 | 12 J | 26 J | 3.1 J | 82 | 12.59 | 0.31 |
| | 4/24/2015 | 19 | 26 | 2.1 | 150 | 14.59 | NM |
| | 10/21/2015 | 16 | 23 | 2.0 U | 31 | 9.74 | 5.00 |
| | 4/26/2016 | 14 | 17 | 1.2 J | 136 | 9.45 | 0.36 |
| | 10/19/2016 | 21 | 14 | 2.0UJ | 29 | 12.12 | 0.00 |
| | 4/25/2017 | 14 | 4.9 | 1.0U | 63 | 6.65 | 0.45 |
| | 10/17/2017 | 11 | 5.4 | 1.4 | 143 | 17.94 | 0.00 |
| MW-88D2 ⁽¹⁾ | 10/24/2006 | NA | NA | NA | -282 | 1.44 | 18.96 |
| | 10/25/2006 | NA | NA | NA | -253 | 1.97 | 11.40 |
| | 10/26/2006 | 140 J | 180 | 3200 | -212 | 0.00 | NM |
| | 1/25/2007 | 180/190 | 180/190 | 3400/2900 | -315 | 0.82 | 0.16 |
| | 4/19/2007 | 390 | 330 | 1200 | -219 | 0.37 | 2.17 |
| | 7/26/2007 | 97/94 | 57 J/56 J | 2000/1800 | -333 | 0.44 | 1.21 |
| | 10/16/2007 | 41 | 25 | 31 | -291 | 3.04 | 9.39 |
| | 4/25/2008 | 280 J | 130 | 230 | 40 | 8.02 | 2.65 |
| | 10/31/2008 | 250 | 83 J | 230 | 45 | 8.94 | 2.70 |
| | 4/14/2009 | 200 | 86 | 59 | 41 | 9.94 | 0.98 |
| | 10/20/2009 | 47 | 43 | 130 | -3 | 4.67 | 4.49 |
| | 5/11/2010 | 130 | 85 | 81 | -5 | 5.70 | 0.50 |
| | 1/20/2011 | 56 | 22 | 160 J | 232 | 5.58 | 0.00 |
| | 4/19/2011 | 27 | 10 | 170 | -585 | 3.35 | 0 |
| | 12/1/2011 | 24 | 12 | 110 | NM | 9.81 | NM |
| | 5/24/2012 | 1.7 J | 1.7 J | 91 | 22 | 5.73 | 0 |
| | 10/26/2012 | 1.7 J | 0.82 J | 5.0 U | NM | NM | NM |
| | 5/1/2013 | 14 | 17 J | 38 J | 154 | 11.30 | 1.56 |
| | 10/28/2013 | 5.0 U | 5.0 U | 5.0 U | 52 | 12.83 | 0.46 |
| | 4/25/2014 | 5.0 U | 5.0 U | 0.85 J | 62 | 2.83 | 0.00 |
| | 10/30/2014 | 19 J | 16 J | 5.0 U | 91 | 14.22 | 0.86 |
| | 4/24/2015 | 15 | 11 | 2.0 U | 26 | 8.59 | NM |
| | 10/21/2015 | 15 | 9.7 | 2.0 U | -44 | 9.18 | 5.00 |
| | 4/26/2016 | 9.2 | 8.3 | 2.0 U | 67 | 1.56 | 0.0 |
| | 10/19/2016 ⁽⁵⁾ | NA | NA | NA | -16 | 0.95 | NM |
| | 4/25/2017 | 13 | 11 | 1.0U | 123 | 8.05 | 0.3 |
| | 10/17/2017 | 17 | 16 | 1.0U | -51 | 0.00 | 0.1 |
| MW-89D1 ⁽²⁾ | 4/21/2011 | 37 | 47 | 63 | -142 | 1.57 | 6.0 |
| | 10/24/2012 | 2.9 J | 5.0 U | 6.7 | 17 | 9.68 | 0.0 |
| | 2/6/2013 | 20 | 10 | 25 | -70 | 8.99 | 0.0 |
| | 4/29/2013 | 12 | 8.3 | 60 | -125 | 5.49 | 3.8 |
| | 7/24/2013 | 6.9 | 3.1 J | 31 | -198 | 0.43 | 1.8 |
| | 10/28/2013 | 6.2 | 2.8 J | 51 | -52 | 2.56 | 0.5 |
| | 1/27/2014 | 15 | 14 | 72 | 239 | 12.43 | NM |
| | 4/24/2014 | 7.2 | 3.5 J | 22 | -88 | 3.67 | 0.0 |

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| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|------------------------------------|---------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-89D1 ⁽²⁾ (cont'd) | 7/17/2014 | 17 | 7.3 | 19 | -45 | 2.42 | 3.6 |
| | 10/31/2014 | 37 | 23 | 4.6 J | 51 | 19.08 | >5.0 |
| | 4/23/2015 | 37 | 26 | 6.9 | 101 | 7.52 | NM |
| | 10/20/2015 | 12 | 8.2 | 4.3 | 21 | 22.43 | 1.5 |
| | 4/25/2016 | 8.9 | 12 | 4.2 | -10 | 2.00 | 0.1 |
| | 10/18/2016 | 18 | 20 | 7.9J | -21 | 0.00 | 0.2 |
| | 4/25/2017 ⁽⁵⁾ | 16 | 19 | 9 | NM | NM | NM |
| | 10/16/2017 | 17 | 14 | 3.8 | 69 | 1.46 | 0.1 |
| MW-89D2 ⁽²⁾ | 4/21/2011 | 27 | 16 | 24 | -154 | 2.43 | 1.0 |
| | 10/24/2012 | 1.7 J | 2.4 J | 21 | -95 | 10.73 | 0.0 |
| | 2/6/2013 | 5 | 4.6 J | 20 | -122 | 10.05 | 0.0 |
| | 4/29/2013 | 1.2 J | 1.9 J | 26 | -244 | 4.49 | 3.0 |
| | 7/24/2013 | 1.1 J | 2.1 J | 12 | -250 | 0.75 | 2.7 |
| | 10/28/2013 | 1.6 J | 2.4 J | 13 | -63 | 9.45 | 0.8 |
| | 1/27/2014 ⁽⁵⁾ | 2.7 J | 4.0 J | 12 | NM | NM | NM |
| | 4/24/2014 | 1.8 J | 2.7 J | 6.1 | -27 | 4.26 | 0.0 |
| | 7/17/2014 | 3.9 J | 5.6 | 3.7 J | -40 | 2.13 | 2.0 |
| | 10/31/2014 | 5.8 | 9.4 | 6.5 | 6 | 12.01 | 1.8 |
| | 4/23/2015 ⁽⁵⁾ | 10 | 13 | 2.3 | NM | NM | NM |
| | 10/20/2015 | 5.7 | 9.4 | 2.0 U | -72 | 19.70 | 2.2 |
| | 4/25/2016 | 6.7 | 6.0 | 2.0 U | -30 | 0.27 | 0.4 |
| | 10/18/2016 | 13 | 8.3 | 2.0UJ | -119 | 0.66 | 0.0 |
| | 4/25/2017 | 8.4 | 6.6 | 1.0U | 134 | 20.49 | 0.0 |
| 10/16/2017 | 10 | 6.5 | 1.0U | 82 | 1.03 | 0.0 | |
| MW-90D1 ⁽²⁾ | 4/25/2007 | 110 | 44 | 6300 | -100 | 0.93 | 2.30 |
| | 4/13/2011 | 29 | 12 | 4100 | -103 | 0.34 | NM |
| | 10/25/2012 ⁽⁵⁾ | 2.0 J | 5.0 U | 810 | NM | NM | NM |
| | 2/6/2013 ⁽⁵⁾ | 27 | 6.7 | 2500 | NM | NM | NM |
| | 4/30/2013 ⁽⁵⁾ | 3.9 J | 2.3 J | 780 | NM | NM | NM |
| | 7/23/2013 ⁽⁵⁾ | 32 | 16 | 290 | NM | NM | NM |
| | 10/25/2013 ⁽⁵⁾ | 22 | 13 | 84 | NM | NM | NM |
| | 1/23/2014 ⁽⁵⁾ | 17 | 18 | 1600 | NM | NM | NM |
| | 4/23/2014 ⁽⁵⁾ | 42 | 24 | 600 | NM | NM | NM |
| | 7/18/2014 ⁽⁵⁾ | 33 | 11 | 27 | NM | NM | NM |
| | 10/21/2014 ⁽⁵⁾ | 16 | 9.9 | 37 | NM | NM | NM |
| | 4/24/2015 ⁽⁵⁾ | 25 | 9.6 | 3.0 | NM | NM | NM |
| | 10/23/2015 ⁽⁵⁾ | 23 | 9.5 | 1.9 J | NM | NM | NM |
| | 4/27/2016 ⁽⁵⁾ | 5.0 U | 8.4 | 2.0 U | NM | NM | NM |
| | 10/21/2016 ⁽⁵⁾ | 21 | 9.6 | 2.0UJ | NM | NM | NM |
| 5/11/2017 ⁽⁵⁾ | 30 | 8.2 | 1.0U | NM | NM | NM | |
| 10/19/2017 ⁽⁵⁾ | 17 | 5.8 | 0.6J | NM | NM | NM | |
| MW-90D2 ⁽²⁾ | 4/25/2007 | 46 | 220 J | 49 | -47 | 1.38 | 1.76 |
| | 5/17/2010 | 26 | 68 | 2.1 J | -112 | 0.00 | 2.5 |
| | 4/14/2011 | 33 | 51 | 1.2 J | 12 | 4.03 | 1.0 |
| | 2/6/2013 ⁽⁵⁾ | 120 | 37 | 3.1 J | NM | NM | NM |
| | 4/30/2013 ⁽⁵⁾ | 57 | 25 | 1.8 J | NM | NM | NM |
| | 7/23/2013 ⁽⁵⁾ | 43 | 29 | 5.0 U | NM | NM | NM |
| | 10/25/2013 ⁽⁵⁾ | 44 | 23 | 5.0 U | NM | NM | NM |
| | 1/23/2014 ⁽⁵⁾ | 39 | 25 | 2.9 J | NM | NM | NM |
| | 4/23/2014 ⁽⁵⁾ | 37 | 26 | 1.5 J | NM | NM | NM |
| | 7/18/2014 ⁽⁵⁾ | 22 | 22 | 5.0 U | NM | NM | NM |
| | 10/21/2014 ⁽⁵⁾ | 6.1 | 3.5 J | 5.0 U | NM | NM | NM |
| | 4/24/2015 ⁽⁵⁾ | 26 | 21 | 2.0 U | NM | NM | NM |
| | 10/23/2015 ⁽⁵⁾ | 74 | 23 | 2.0 U | NM | NM | NM |
| | 4/27/2016 ⁽⁵⁾ | 27 | 11 | 2.0 U | NM | NM | NM |

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| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|------------------------------------|---------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-90D2 ⁽²⁾ (cont'd) | 10/21/2016 ⁽⁵⁾ | 6 | 6.9 | 2.0UJ | NM | NM | NM |
| | 4/27/2017 ⁽⁵⁾ | 11 | 8.2 | 1.0U | NM | NM | NM |
| | 10/19/2017 ⁽⁵⁾ | 12 | 6.6 | 1.0U | NM | NM | NM |
| Voluntary Wells | | | | | | | |
| MW-52S | 3/13/2007 | 25 | 19 | 2400 | 5 | 1.64 | 1.66 |
| MW-52I | 3/14/2007 | 14 | 5 | 6 | 259 | 5.85 | 0.04 |
| MW-52D | 3/14/2007 | 410 | 39 | 5 U | 226 | 3.07 | 0.11 |
| MW-58D | 10/26/2006 | 20 | 120 | 5 U | 21 | 2.42 | 4.30 |
| | 5/18/2010 | 18 | 47 | 5.0 U | 30 | 0.00 | 1.8 |
| | 11/21/2011 | 8.6 | 56 | 5.0 U | 74 | 0.30 | NR |
| | 5/23/2013 | 15 J | 110 | 5.0 U | 167 | 5.94 | 2 |
| | 11/14/2014 ⁽⁵⁾ | 500 U | 6500 | 500 U | NM | NM | NM |
| | 6/2/2016 | 28 | 6300 | 2.0 U | -44 | 9.46 | 0.0 |
| | 11/2/2016 | 38J | 5000 | 2.0U | -12 | 0.00 | 0.1 |
| | 4/26/2017 ⁽⁵⁾ | 51 | 5200 | 1.0U | NM | NM | NM |
| | 10/17/2017 ⁽⁵⁾ | 59 | 3670 | 50U | NM | NM | NM |
| MW-58D1 | 10/26/2006 | 20 | 150 | 5 U | -101 | 2.58 | 8.80 |
| | 5/19/2010 | 18 | 44 | 5.0 U | -50 | 0.00 | 2.2 |
| | 11/21/2011 | 2.5 J | 20 | 5.0 U | -48 | 0.52 | NR |
| | 5/23/2013 ⁽⁵⁾ | 12 J | 73 | 5.0 U | NM | NM | NM |
| | 11/14/2014 ⁽⁵⁾ | 250 U | 4300 | 250 U | NM | NM | NM |
| | 6/2/2016 | 34 | 5800 | 2.0 U | -25 | 10.58 | 0.1 |
| | 11/2/2016 | 32J | 4400 | 2.0U | 46 | 0.00 | 1.6 |
| | 4/26/2017 | 51 | 4600 | 1.0U | -96 | NM | 0.0 |
| | 10/17/2017 ⁽⁵⁾ | 60 | 3300 | 50U | NM | NM | NM |
| MW-58D2 | 10/25/2006 | 19 J | 120 | 5 U | -198 | 0.00 | 5.16 |
| | 4/29/2013 | 13 | 74 | 5.0 U | -81 | 7.70 | 3.87 |
| | 10/24/2014 | 20 | 4900 | 5.0 U | -10 | 20.87 | 0.00 |
| | 5/18/2016 | 38 | 7600 | 2.0 U | 47 | 9.57 | 0.22 |
| | 10/19/2016 | 37 | 3200 | 2.0UJ | -46 | 0.00 | 0.72 |
| | 5/11/2017 ⁽⁵⁾ | 44 | 2400 | 1.0U | NM | NM | 0.00 |
| | 11/1/2017 | 83 | 4100 | 1.0U | 64 | 1.69 | 0.52 |
| MW-59D1 | 10/25/2006 | 10 J | 32 | 5 U | -20 | 0.58 | 3.24 |
| | 11/29/2011 | 3.5 J | 12 | 5.0 U | -43 | 0.30 | NR |
| MW-59D2 | 10/25/2006 | 11 J | 40 | 5 U | -99 | 0.47 | 2.00 |
| | 11/29/2011 | 2.5 J | 8.1 | 5.0 U | -128 | 0.10 | NR |
| | 5/18/2016 ⁽⁵⁾ | 5.0 U | 5.5 | 2.0 U | NM | NM | NM |
| | 10/19/2016 | 5.0U | 5.7 | 2.0UJ | -137 | 1.01 | 0.14 |
| | 4/26/2017 | 1.0U | 4.7 | 1.0U | -114 | 2.52 | 0.00 |
| | 10/19/2017 | 0.6J | 4.4 | 1.0U | -64 | 1.59 | 0.14 |
| MW-59D | 10/26/2006 | 10 | 58 | 5 U | -108 | 0.00 | 2.65 |
| | 11/29/2011 | 5.3 | 13 | 5.0 U | 49 | 0.35 | NR |
| MW-60S | 5/23/2013 | 45 | 150 | 5.0 U | -233 | 4.74 | >5.0 |
| MW-60I | 5/23/2013 | 43 | 200 | 5.0 U | -93 | 3.77 | >5.0 |
| MW-60D | 5/23/2013 | 64 | 99 | 5.0 U | -204 | 4.60 | 2.43 |
| MW-60D1 | 4/30/2013 | 1.6 J | 26 | 5.0 U | -108 | 5.84 | >5.0 |
| MW-61S | 10/19/2009 | 7.4 | 10 | 5.0 U | 372 | >20 | 0.02 |
| | 5/10/2010 | 5.4 | 8.1 U | 3.5 J | 100 | 10.95 | 0.0 |

Select Laboratory and Field Parameter Results
 Hooker Ruco Site
 Hicksville, New York

| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|---------------------------|---------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-62I | 5/16/2007 | 5.1 | 1 J | 3 J | 59 | 0.00 | 0.69 |
| | 5/25/2010 | 5.1 J | 5.0 U | 4.2 J | 14.8 | 0.00 | 4.2 |
| | 11/16/2015 ⁽⁵⁾ | 14 | 3.4 J | 8.9 | NM | NM | 2.5 |
| | 10/18/2017 | 13 | 2.9 | 7.9 | 145 | 0.00 | 0.0 |
| MW-62D | 5/16/2007 | 5 U | 5 U | 5 U | -125 | 0.00 | 0.38 |
| | 5/25/2010 | 2.4 J | 8.2 | 8 | -200 | 0.00 | 6.2 |
| | 11/16/2015 | 2.5 J | 2.0 J | 2.3 | 116 | 10.94 | 0.0 |
| | 10/18/2017 | 1.5 | 2.2 | 3.7 | -25 | 0.00 | 0.0 |
| MW-64S ⁽²⁾ | 4/26/2007 | 3 J | 2 J | 8.7 | -114 | 0.00 | 2.4 |
| | 5/24/2010 | 1.5 J | 5.0 U | 2.1 J | -98 | 0.00 | 4.0 |
| MW-64I ⁽²⁾ | 4/26/2007 | 5 | 3 J | 16 | -121 | 0.00 | 1.9 |
| | 5/24/2010 | 5.0 UJ | 5.0 U | 12 | -110 | 0.00 | 4.0 |
| MW-64D ⁽²⁾ | 4/26/2007 | 5.1 | 4 J | 14 | -115 | 0.00 | 2.0 |
| | 5/24/2010 | 5.0 UJ | 5.0 U | 11 | -107 | 0.00 | 2.3 |
| MW-66D2 ⁽²⁾ | 4/25/2013 | 100 | 110 | 5.0 U | -44 | 6.58 | 0.2 |
| | 10/29/2013 | 43 | 58 | 5.0 U | -111 | 3.88 | 0.3 |
| | 4/25/2014 | 47 | 61 | 5.0 U | 53 | 4.55 | 0.7 |
| | 10/27/2014 | 22 | 25 | 5.0 U | 166 | 3.42 | 2.8 |
| | 4/23/2015 | 10 | 15 | 2.0 U | 161 | 13.98 | NM |
| | 10/21/2015 ⁽⁵⁾ | 5.8 | 10 | 2.0 U | NM | NM | NM |
| | 4/25/2016 | 2.9 J | 8.0 | 2.0 U | -4 | 13.29 | 0.2 |
| | 10/18/2016 | 1.4J | 2.2J | 2.0UJ | 35 | 0.02 | NM |
| | 4/26/2017 | 1.0U | 1.0U | 1.0U | 190 | 11.67 | 0.8 |
| | 10/16/2017 | 0.6J | 0.9J | 1.0U | 137 | 7.45 | 0.2 |
| | MW-67S ⁽²⁾ | 5/20/2010 | 26/27 | 37/39 | 87/95 | -170 | 0.00 |
| 11/22/2011 | | 1.5 J | 8.7 | 47 | -35 | 0.14 | NR |
| 4/25/2013 | | 2.8 J | 19 | 140 | 45 | 5.14 | 1.9 |
| 10/29/2013 | | 4.6 J | 16 | 100 | -161 | 2.49 | 1.0 |
| 4/25/2014 | | 4.9 J | 9.6 | 38 | 77 | 2.76 | 0.0 |
| 10/24/2014 ⁽⁵⁾ | | 18 | 19 | 6.2 | NM | NM | NM |
| 4/23/2015 | | 6 | 5.4 | 2.0 U | 155 | 12.71 | 0.4 |
| 10/21/2015 | | 1.7 J | 2.5 J | 2.0 U | 177 | 11.68 | NM |
| 4/25/2016 | | 58 | 44 | 2.0 U | 104 | 20.69 | 0.7 |
| 10/19/2016 | | 41 | 66 | 2.0UJ | 26 | 0.29 | 0.2 |
| 4/26/2017 | | 67 | 61 | 1.0U | 100 | 4.02 | NM |
| 10/16/2017 | 60 | 66 | 0.7J | 87 | 2.77 | 0.0 | |
| MW-67D ⁽²⁾ | 5/20/2010 | 74/73 | 280/280 J | 5.0 U/5.0 U | -187 | 1.30 | 0.2 |
| | 11/22/2011 | 6.2 | 58 | 5.0 U | 129 | 2.97 | NR |
| | 4/25/2013 | 8.6 | 32 | 5.0 U | 45 | 11.98 | 1.9 |
| | 10/29/2013 | 11 | 36 | 5.0 U | -204 | 3.78 | 0.0 |
| | 4/25/2014 | 4.8 J | 25 | 5.0 U | 2 | 5.35 | 0.0 |
| | 10/24/2014 ⁽⁵⁾ | 1.4 J | 4.3 J | 5.0 U | NM | NM | NM |
| | 4/23/2015 | 2.9 J | 5.0 U | 2.0 U | -274 | 9.51 | NM |
| | 10/21/2015 ⁽⁵⁾ | 5.0 U | 2.1 J | 2.0 U | NM | NM | NM |
| | 4/25/2016 | 5.0 J | 1.2 J | 2.0 U | 53 | 4.62 | 0.3 |
| | 10/19/2016 | 5.0U | 5.0U | 2.0UJ | 50 | 2.37 | 0.1 |
| | 4/26/2017 | 1.0U | 2.1 | 1.0U | 2 | 3.25 | 0.5 |
| 10/16/2017 | 0.7J | 0.8J | 1.0U | NM | 0.00 | 0.0 | |
| MW-68S ⁽²⁾ | 11/28/2011 | 83 | 110 | 690 | -107 | 0.05 | NR |
| | 4/25/2013 | 11 | 27 | 940 | -190 | 6.84 | 1.9 |
| | 10/29/2013 | 6.8 | 11 | 580 | -128 | 3.58 | 1.0 |
| | 4/25/2014 | 99 | 81 | 270 | -50 | 2.49 | 0.0 |
| | 10/24/2014 | 67 | 93 | 400 | 68 | 21.08 | 0.0 |
| | 4/23/2015 | 77 | 110 | 2.0 U | -15 | 15.09 | NM |
| 10/21/2015 | 65 | 110 | 260 | 47 | 9.22 | NM | |

Select Laboratory and Field Parameter Results
 Hooker Ruco Site
 Hicksville, New York

| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|-----------------------------------|---------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-68S ⁽²⁾ (cont'd) | 4/25/2016 | 62 | 100 | 220 | 1 | 24.40 | 0.0 |
| | 10/19/2016 | 87 | 120 | 230J | -201 | 0.47 | 0.1 |
| | 4/26/2017 ⁽⁵⁾ | 50 | 83 | 190 | NM | NM | NM |
| | 10/16/2017 | 87 | 93 | 143 | -163 | 0.00 | 0.2 |
| MW-68D ⁽²⁾ | 5/19/2010 | 320 | 970 | 34 | -29 | 0.00 | 2.4 |
| | 11/28/2011 | 47 | 290 | 1.2 J | -38 | 0.97 | NR |
| | 4/25/2013 | 36 | 160 | 1.3 J | -174 | 5.88 | 0.7 |
| | 10/29/2013 | 19 | 78 | 5.0 U | -91 | 4.12 | 0.2 |
| | 4/25/2014 | 7.3 | 47 | 5.0 U | -71 | 5.27 | 0.0 |
| | 10/24/2014 | 2.2 J | 14 | 5.0 U | 36 | 12.79 | 0.0 |
| | 4/23/2015 ⁽⁵⁾ | 1.8 J | 6.8 | 1.0 J | NM | NM | NM |
| | 10/21/2015 ⁽⁵⁾ | 1.7 J | 5.9 | 2.0 U | NM | NM | NM |
| | 4/25/2016 | 5.0 U | 4.3 J | 2.0 U | 37 | 9.21 | 0.0 |
| | 10/19/2016 | 5.0U | 4.6J | 2.0UJ | -39 | 0.50 | 0.0 |
| | 4/26/2017 | 1.0U | 4.7 | 1.0U | 18 | 4.64 | NM |
| | 10/16/2017 | 2.5 | 5.4 | 1.0U | 82 | 0.00 | 0.6 |
| MW-92D1 | 4/12/2011 | 5.7 | 1.3 J | 100 | -190 | 1.13 | 4.0 |
| | 4/24/2013 | 3.7 J | 6.2 | 79 | 12 | 6.57 | 3.0 |
| | 10/27/2014 | 3.4 J | 4.6 J | 51 | -18 | 2.62 | 4.1 |
| | 10/23/2015 | 3.9 J | 6.2 | 42 | 32 | 6.61 | 1.0 |
| | 10/18/2017 | 2.4 | 6.8 | 24 | -105 | 0.00 | 0.0 |
| MW-92D2 | 4/25/2011 | 690 | 12 | 5.0 U | -156 | 2.00 | 1.5 |
| | 4/24/2013 | 280 | 17 | 5.0 U | -104 | 5.52 | >5.0 |
| | 10/27/2014 | 92 | 8.2 | 5.0 U | -120 | 2.20 | 75.0 |
| | 10/23/2015 | 30 | 5.4 | 2.0 U | -77 | 8.07 | 0.1 |
| | 10/18/2017 | 18 | 2.4 | 1.0U | -91 | 0.00 | 0.4 |
| MW-93D1 | 4/26/2011 | 21 | 3.7 J | 190 | -191 | 2.18 | 2.5 |
| | 4/24/2013 | 14 | 4.5 J | 20 | -140 | 5.16 | 2.2 |
| | 10/27/2014 | 16 | 2.3 J | 7.0 | 33 | 3.10 | 2.3 |
| | 10/23/2015 | 8 | 1.2 J | 3.8 | 11 | 9.79 | 0.2 |
| | 10/18/2017 | 1.4 | 0.5J | 1.0U | -94 | 0.00 | 0.4 |
| MW-93D2 | 4/26/2011 | 110 | 15 | 5.0 U | -219 | 2.96 | 2.0 |
| | 4/23/2013 | 24 | 21 | 5.0 U | -105 | 4.58 | 4.5 |
| | 10/27/2014 | 1.0 J | 5.0 U | 5.0 U | -12 | 2.98 | 3.4 |
| | 10/23/2015 | 5.0 U | 5.0 U | 2.0 U | -105 | 9.40 | 0.0 |
| | 10/18/2017 | 13 | 1.2 | 1.5 | -77 | 3.48 | 0.4 |
| Northrop Wells | | | | | | | |
| GP-1 (Well 1) | 9/25/2006 | NR | NA | ND | NR | NR | NR |
| | 10/23/2006 | NR | NA | ND | NR | NR | NR |
| | 11/13/2006 | NR | NA | ND | NR | NR | NR |
| | 12/18/2006 | NR | 634 | ND | NR | NR | NR |
| | 1/15/2007 | NR | 547 | ND | NR | NR | NR |
| | 2/12/2007 | NR | 373 | ND | NR | NR | NR |
| | 3/12/2007 | NR | 439 | ND | NR | NR | NR |
| | 4/16/2007 | NR | 473 | ND | NR | NR | NR |
| | 5/14/2007 | NR | 587 | ND | NR | NR | NR |
| | 6/18/2007 | NR | 414 | ND | NR | NR | NR |
| | 7/23/2007 | NR | 410 | ND | NR | NR | NR |
| | 8/13/2007 | NR | 333 | ND | NR | NR | NR |
| | 9/11/2007 | NR | 452 | ND | NR | NR | NR |
| | 10/15/2007 | NR | 285 | ND | NR | NR | NR |
| | 11/12/2007 | NR | 428 | ND | NR | NR | NR |
| | 12/18/2007 | NR | 371 | ND | NR | NR | NR |
| | 1/14/2008 | NR | 273 | ND | NR | NR | NR |
| | 2/18/2008 | NR | 373 | ND | NR | NR | NR |
| | 3/17/2008 | NR | 212 | ND | NR | NR | NR |
| | 4/14/2008 | NR | 233 | ND | NR | NR | NR |

**Select Laboratory and Field Parameter Results
Hooker Ruco Site
Hicksville, New York**

| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|---------------------------|--------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| GP-1 (Well 1) (cont'd) | 5/19/2008 | NR | 195 | ND | NR | NR | NR |
| | 6/16/2008 | NR | 113 | ND | NR | NR | NR |
| | 7/15/2008 | NR | 353 | ND | NR | NR | NR |
| | 8/18/2008 | NR | 54 | ND | NR | NR | NR |
| | 9/22/2008 | NR | 78 | ND | NR | NR | NR |
| | 10/13/2008 | NR | 78 | ND | NR | NR | NR |
| | 11/18/2008 | NR | 145 | ND | NR | NR | NR |
| | 12/16/2008 | NR | 82 | ND | NR | NR | NR |
| | 1/05/2009 | NR | 106 | ND | NR | NR | NR |
| | 2/16/2009 | NR | 186 | ND | NR | NR | NR |
| | 3/16/2009 | NR | 202 | ND | NR | NR | NR |
| | 4/13/2009 | NR | 203 | ND | NR | NR | NR |
| | 5/18/2009 | NR | 217 | ND | NR | NR | NR |
| | 6/15/2009 | NR | 93 | ND | NR | NR | NR |
| | 7/21/2009 | NR | 156 | ND | NR | NR | NR |
| | 8/18/2009 | NR | 126 | ND | NR | NR | NR |
| | 9/16/2009 | NR | 112 | ND | NR | NR | NR |
| | 10/20/2009 | NR | 132 | ND | NR | NR | NR |
| | 11/16/2009 | NR | 173 | ND | NR | NR | NR |
| | 12/4/2009 | NR | 151 | ND | NR | NR | NR |
| | 1/18/2010 | NR | 106 | ND | NR | NR | NR |
| | 2/15/2010 | NR | 108 | ND | NR | NR | NR |
| | 3/15/2010 | NR | 149 | ND | NR | NR | NR |
| | 4/20/2010 | NR | 368 | ND | NR | NR | NR |
| | 7/28/2010 | NR | NA | ND | NR | NR | NR |
| | 8/20/2010 | NR | 101 | ND | NR | NR | NR |
| | 5/08/2012 | 48 | 410 | ND | NR | NR | NR |
| | 12/11/2012 | 51 | 410 | ND | NR | NR | NR |
| | 2/18/2013 | 49 | 360 | ND | NR | NR | NR |
| | 6/06/2013 | 48 | 380 | ND | NR | NR | NR |
| | 8/21/2013 | 48/44 | 400/390 | ND/ND | NR | NR | NR |
| | 2/24/2014 | 39 | 400 | ND | NR | NR | NR |
| | 6/10/2014 | 40 | 490 | ND | NR | NR | NR |
| | 9/11/2014 | 35 | 730 | ND | NR | NR | NR |
| | 11/13/2014 | 39 | 695 | ND | NR | NR | NR |
| | 3/16/2015 | 41 | 713 | ND | NR | NR | NR |
| | 5/05/2015 | 31 | 748 | ND | NR | NR | NR |
| | 9/09/2015 | 35 | 852 | ND | NR | NR | NR |
| | 12/12/2015 | 31 | 768 | ND | NR | NR | NR |
| | 3/14/2016 | 30 | 792 | ND | NR | NR | NR |
| 5/12/2016 | 24 | 615 | ND | NR | NR | NR | |
| 8/17/2016 | 28 | 838 | ND | NR | NR | NR | |
| 12/15/2016 | 22 | 703 | ND | NR | NR | NR | |
| 2/22/2017 | 28 | 702 | ND | NR | NR | NR | |
| 9/12/2017 | 22 | 603 | ND | NR | NR | NR | |
| GP-3 (Well 3R) | 09/25/2006 | NR | NR | 100 | NR | NR | NR |
| | 10/23/2006 | NR | NR | 122 | NR | NR | NR |
| | 11/13/2006 | NR | NR | 143 | NR | NR | NR |
| | 12/18/2006 | NR | 3968 | 148 | NR | NR | NR |
| | 1/15/2007 | NR | 3038 | 121 | NR | NR | NR |
| | 2/12/2007 | NR | 2545 | 81 | NR | NR | NR |
| | 3/12/2007 | NR | 2200 | 74 | NR | NR | NR |
| | 4/16/2007 | NR | 2476 | 49 | NR | NR | NR |
| | 5/14/2007 | NR | 3107 | 144 | NR | NR | NR |
| | 6/18/2007 | NR | 2268 | 92 | NR | NR | NR |
| | 7/23/2007 | NR | 2900 | 128 | NR | NR | NR |
| | 8/13/2007 | NR | 1964 | 113 | NR | NR | NR |
| | 9/11/2007 | NR | 2013 | 114 | NR | NR | NR |
| | 10/15/2007 | NR | 2080 | 117 | NR | NR | NR |
| | 11/12/2007 | NR | 2123 | 113 | NR | NR | NR |
| | 12/18/2007 | NR | 2264 | 130 | NR | NR | NR |
| | 1/14/2008 | NR | 1655 | 109 | NR | NR | NR |
| 2/18/2008 | NR | 1472 | 143 | NR | NR | NR | |
| 3/17/2008 | NR | 1700 | 146 | NR | NR | NR | |

**Select Laboratory and Field Parameter Results
Hooker Ruco Site
Hicksville, New York**

| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|----------------------------|---------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| GP-3 (Well 3R) (cont'd) | 4/14/2008 | NR | 1717 | 130 | NR | NR | NR |
| | 5/19/2008 | NR | 985 | 81 | NR | NR | NR |
| | 6/16/2008 | NR | 1196 | 86 | NR | NR | NR |
| | 7/15/2008 | NR | 1106 | 89 | NR | NR | NR |
| | 8/18/2008 | NR | 907 | 51 | NR | NR | NR |
| | 9/22/2008 | NR | 1083 | 101 | NR | NR | NR |
| | 10/13/2008 | NR | 1130 | 98 | NR | NR | NR |
| | 11/18/2008 | NR | 846 | 112 | NR | NR | NR |
| | 12/16/2008 | NR | 1227 | 83 | NR | NR | NR |
| | 1/12/2009 | NR | 862 | 93 | NR | NR | NR |
| | 2/16/2009 | NR | 1159 | 104 | NR | NR | NR |
| | 3/16/2009 | NR | 1082 | 112 | NR | NR | NR |
| | 4/13/2009 | NR | 1410 | 153 | NR | NR | NR |
| | 0/18/2009 | NR | 1012 | 151 | NR | NR | NR |
| | 6/15/2009 | NR | 856 | 94 | NR | NR | NR |
| | 7/21/2009 | NR | 1180 | 148 | NR | NR | NR |
| | 8/18/2009 | NR | 1226 | 151 | NR | NR | NR |
| | 9/16/2009 | NR | 1462 | 163 | NR | NR | NR |
| | 10/20/2009 | NR | 1591 | 178 | NR | NR | NR |
| | 11/16/2009 | NR | 1262 | 182 | NR | NR | NR |
| | 12/14/2009 | NR | 1262 | 179 | NR | NR | NR |
| | 1/18/2010 | NR | 1263 | 188 | NR | NR | NR |
| | 2/15/2010 | NR | 1191 | 177 | NR | NR | NR |
| | 3/15/2010 | NR | 852 | 134 | NR | NR | NR |
| | 4/20/2010 | NR | 890 | 173 | NR | NR | NR |
| | 6/21/2010 | NR | 450 | 135 | NR | NR | NR |
| | 7/19/2010 | NR | 308 | 137 | NR | NR | NR |
| | 8/12/2010 | NR | 132 | 155 | NR | NR | NR |
| | 5/08/2012 | 58 | 1700 | 140 | NR | NR | NR |
| | 12/11/2012 | 51 | 1500 | 84 | NR | NR | NR |
| | 2/18/2013 | 53 | 1400 | 72 | NR | NR | NR |
| | 6/06/2013 | 54 | 1400 | 60 | NR | NR | NR |
| | 8/21/2013 | 57 | 1200 | 58 | NR | NR | NR |
| | 2/24/2014 ⁽⁶⁾ | 38 | 98 | 38 | NR | NR | NR |
| | 6/10/2014 ⁽⁶⁾ | 40 | 140 | 36 | NR | NR | NR |
| | 9/11/2014 ⁽⁶⁾ | 43 | 270 | 36 | NR | NR | NR |
| | 11/13/2014 ⁽⁶⁾ | 44 | 394 | 35 | NR | NR | NR |
| | 3/16/2015 ⁽⁶⁾ | 44 | 493 | 29 | NR | NR | NR |
| | 5/05/2015 ⁽⁶⁾ | 34 | 533 | 18 | NR | NR | NR |
| | 9/09/2015 ⁽⁶⁾ | 37 | 557 | 13 | NR | NR | NR |
| 12/15/2015 ⁽⁶⁾ | 34 | 510 | 10 | NR | NR | NR | |
| 3/14/2016 ⁽⁶⁾ | 31 | 529 | 8.6 | NR | NR | NR | |
| 5/12/2016 ⁽⁶⁾ | 29 | 487 | 7.6 | NR | NR | NR | |
| 8/17/2016 ⁽⁶⁾ | 33 | 579 | 5.0 | NR | NR | NR | |
| 12/15/2016 ⁽⁶⁾ | 27 | 508 | 3.5 | NR | NR | NR | |
| 2/14/2017 ⁽⁶⁾ | 31 | 498 | 3.9 | NR | NR | NR | |
| 9/12/2017 ⁽⁶⁾ | 31 | 365 | 2.7 | NR | NR | NR | |

**Select Laboratory and Field Parameter Results
Hooker Ruco Site
Hicksville, New York**

| Well | Date Sampled | PCE (µg/L) | TCE (µg/L) | VCM (µg/L) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|--------|--------------------------|---------------|---------------|---------------|-------------|--------------|----------------------------|
| MW-3-1 | 1/30/2012 ⁽⁷⁾ | 150 | 240 | 170 | NR | NR | NR |
| | 3/28/2012 | 56 | 220 | 1300 | NR | NR | NR |
| | 6/19/2013 | 7.8 | 37 | 78 | NR | NR | NR |
| | 6/5/2015 | 12 | 68 | 4.8 | NR | NR | NR |
| | 11/11/2015 | 11 | 58 | 5.2 | NR | NR | NR |
| | 5/11/2016 | 16 | 87 | 16 | NR | NR | NR |
| | 10/18/2016 | 14 | 96 | 14 | NR | NR | NR |

Notes:

- (1) Pilot System Monitoring Well
 - (2) Remainder of System Monitoring Well
 - (3) Black colored water prevented reading on colorimetric meter
 - (4) Orange colored water prevented reading on colorimeter meter
 - (5) Insufficient sample volume to obtain measurement/reading
 - (6) Sample from replacement well 3R
 - (7) Sample collected from vertical profile boring at depth 439 ft bgs
- NA - Not analyzed
 NM - Not measured (insufficient sample volume for all samples subsequent to 11/30/2011)
 NR - Not reported by Northrop
 NS - Not Sampled
 U - Not detected at associated value
 J - Estimated concentration

Well Status December 31, 2017
Operable Unit-3 Biosparge System
Hooker/Ruco Site, Hicksville, New York

| Well Designation | Date Completed | Well Functional | Comments/Proposed Action |
|-------------------------|-----------------------|------------------------|--|
| IW-1D1A | 04/28/11 | Y | Repaired 11/1/2017 |
| IW-1D1L | 04/28/11 | Y | |
| IW-1D2A | 04/28/11 | Y | Repaired 11/1/2017 |
| IW-2D1A | 04/8/11 | Y | |
| IW-2D1L | 04/8/11 | Y | |
| IW-2D2A | 04/8/11 | Y | |
| IW-3D1A | 03/25/11 | Y | |
| IW-3D1L | 03/25/11 | Y | |
| IW-3D2A | 03/25/11 | Y | |
| IW-4D1A | 01/27/11 | Y | |
| IW-4D1L | 01/27/11 | Y | |
| IW-4D2A | 01/27/11 | Y | |
| IW-5D1A | 04/12/11 | Y | Actuator replaced May 26, 2016, injections restarted. |
| IW-5D1L | 04/12/11 | Y | |
| IW-5D2A | 04/12/11 | Y | Actuator replaced May 26, 2016, injections restarted. |
| IW-6D1A | 01/17/11 | Y | |
| IW-6D1L | 01/17/11 | Y | |
| IW-6D2A | 01/17/11 | N | Repairs are ongoing. |
| IW-7D1A | 03/29/11 | Y | Repaired 11/1/2017 |
| IW-7D1L | 03/29/11 | Y | |
| IW-7D2A | 03/29/11 | N | Repairs are ongoing |
| IW-15D1A | 10/05/10 | Y | |
| IW-15D1L | 10/05/10 | Y | |
| IW-15D2A | 10/05/10 | Y | |
| IW-16D1A | 11/01/05 | N | DO in downgradient MW-83 >2.0 mg/L. No action planned. |
| IW-16D1L | 11/01/05 | Y | |
| IW-16D2A | 11/01/05 | Y | |
| IW-17D1A | 12/01/05 | Y | |
| IW-17D1L | 12/01/05 | Y | |
| IW-17D2A | 12/01/05 | N | DO in downgradient MW-81 >2.0 mg/L. No further action planned. |
| IW-18D1A | 01/09/06 | N | DO in downgradient MW-84 >2.0 mg/L. No action planned. |
| IW-18D1L | 01/09/06 | Y | |
| IW-18D2A | 01/09/06 | Y | |
| IW-19D1A | 01/13/06 | N | DO in downgradient MW-82/88 >2.0 mg/L. No action planned. |
| IW-19D1L | 01/13/06 | Y | |
| IW-19D2A | 01/13/06 | N | DO in downgradient MW-82/88 >2.0 mg/L. No action planned. |
| IW-20D1A | 10/13/10 | N | DO in downgradient MW-82/88 >2.0 mg/L. No action planned. |
| IW-20D1L | 10/13/10 | Y | |
| IW-20D2A | 10/13/10 | N | DO in downgradient MW-82/88 >2.0 mg/L. No action planned. |
| IW-21D1A | 10/23/10 | Y | |
| IW-21D1L | 10/23/10 | Y | |
| IW-21D2A | 10/23/10 | Y | |
| IW-22D1A | 11/03/10 | Y | Pipe repaired July 6, 2017. |
| IW-22D1L | 11/03/10 | Y | |
| IW-22D2A | 11/03/10 | Y | Pipe repaired July 6, 2017. |
| MW-50D1 | 02/23/95 | N | Abandoned by Bayer during site closure. |
| MW-50D2 | 02/13/95 | N | Abandoned by Bayer during site closure. |
| MW-51D1 | 10/24/95 | N | Well no longer needed to monitor remediation of VCM subplume. |
| MW-51D2 | 10/02/95 | N | Well no longer needed to monitor remediation of VCM subplume. |
| MW-52S | 01/17/96 | N | Abandoned March 2007 |
| MW-52I | 12/14/95 | N | Abandoned March 2007 |
| MW-52D | 12/12/95 | N | Abandoned March 2007 |
| MW-53I | 06/08/95 | Y | Well no longer needed to monitor remediation of VCM subplume. |
| MW-53D1 | 06/19/95 | N | Well no longer needed to monitor remediation of VCM subplume. Well paved over. |

Well Status December 31, 2017
Operable Unit-3 Biosparge System
Hooker/Ruco Site, Hicksville, New York

| Well Designation | Date Completed | Well Functional | Comments/Proposed Action |
|-------------------------|-----------------------|------------------------|---|
| MW-53D2 | 06/05/95 | Y | Well no longer needed to monitor remediation of VCM subplume. Obstruction in well prevents sampler insertion. |
| MW-56S | 01/26/96 | N | Abandoned October 2000 |
| MW-56I | 01/25/96 | N | Abandoned October 2000 |
| MW-57S | 01/23/96 | Y | Well no longer needed to monitor remediation of VCM subplume. |
| MW-57I | 01/25/96 | Y | Well no longer needed to monitor remediation of VCM subplume. |
| MW-58D | 03/26/02 | Y | |
| MW-58D1 | 03/26/02 | Y | |
| MW-58D2 | 03/26/02 | Y | |
| MW-59D | 04/06/02 | N | VCM subplume can be monitored using Northrop well MW-3-1. |
| MW-59D1 | 04/06/02 | N | VCM subplume can be monitored using Northrop well MW-3-1. |
| MW-59D2 | 04/06/02 | Y | Previously lodged sampler retrieved from well in April 2016 allowing well to be sampled. |
| MW-60D1 | 03/05/02 | Y | Well no longer needed to monitor remediation of VCM subplume. |
| MW-60S | 03/08/02 | Y | Well no longer needed to monitor remediation of VCM subplume. |
| MW-60I | 03/08/02 | Y | Well no longer needed to monitor remediation of VCM subplume. |
| MW-60D | 03/08/02 | Y | Well no longer needed to monitor remediation of VCM subplume. |
| MW-61S | 02/22/02 | Y | Well no longer needed to monitor remediation of VCM subplume. |
| MW-61I | 02/22/02 | N | Obstruction at 130 ftbgs prevents insertion of sampler. Monitoring of MW-61D2 sufficient to monitor VCM subplume. |
| MW-61D1 | 02/22/02 | N | Obstruction at 130 ftbgs prevents insertion of sampler. Monitoring of MW-61D2 sufficient to monitor VCM subplume. |
| MW-61D2 | 03/12/02 | Y | |
| MW-62I | 05/14/02 | Y | |
| MW-62D | 04/20/02 | Y | |
| MW-63S | 02/18/02 | Y | |
| MW-63I | 02/18/02 | Y | |
| MW-63D1 | 02/18/02 | Y | |
| MW-63D2 | 02/18/02 | Y | |
| MW-64S | 02/09/02 | N | Well no longer needed to monitor remediation of VCM subplume. Sampler stuck in well. |
| MW-64I | 02/09/02 | N | Well no longer needed to monitor remediation of VCM subplume. Sampler stuck in well. |
| MW-64D | 02/09/02 | N | Well no longer needed to monitor remediation of VCM subplume. Sampler stuck in well. |
| MW-66D2 | 06/08/02 | Y | |
| MW-66I | 06/19/02 | N | Remediation of VCM subplume is adequately monitored by MW-66D2. Well no longer needed. |
| MW-66D1 | 06/19/02 | N | Remediation of VCM subplume is adequately monitored by MW-66D2. Well no longer needed. |
| MW-67S | 01/11/03 | Y | |
| MW-67D | 01/11/03 | Y | |
| MW-68S | 02/09/03 | Y | |
| MW-68D | 02/09/03 | Y | |
| MW-70D1 | 02/02/11 | Y | Cam locks replaced in December 2016. |
| MW-70D2 | 02/02/11 | Y | |
| MW-72D1 | 03/16/11 | Y | |
| MW-72D2 | 03/16/11 | Y | |
| MW-73D1 | 02/11/11 | Y | Cam locks replaced in December 2016. |
| MW-73D2 | 02/11/11 | Y | |
| MW-75D1 | 05/02/11 | Y | |
| MW-75D2 | 05/02/11 | Y | |
| MW-76S | 03/03/11 | Y | No future sampling of this well is recommended. |
| MW-76I | 03/03/11 | Y | No future sampling of this well is recommended. |
| MW-76D1 | 02/15/11 | Y | Test weight fell and became stuck in bottom of well in October 2015; samplers were able to be inserted and retrieved properly. |
| MW-76D2 | 02/15/11 | Y | |
| MW-77D1 | 02/26/11 | N | Samplers stuck in well. Monitoring of MW-77D2 sufficient to monitor VCM Subplume. Abandonment of MW-77D1 could adversely impact functionality of MW-77D2. No action proposed. |
| MW-77D2 | 02/26/11 | Y | |

Well Status December 31, 2017
Operable Unit-3 Biosparge System
Hooker/Ruco Site, Hicksville, New York

| Well Designation | Date Completed | Well Functional | Comments/Proposed Action |
|-------------------------|-----------------------|------------------------|--|
| MW-81D1 | 11/01/05 | Y | |
| MW-81D2 | 11/01/05 | Y | |
| MW-82D1 | 02/15/06 | Y | |
| MW-82D2 | 02/15/06 | Y | |
| MW-83D1 | 11/06/05 | Y | |
| MW-83D2 | 11/06/05 | Y | |
| MW-84D1 | 04/12/06 | Y | |
| MW-84D2 | 04/12/06 | Y | |
| MW-85S | 12/04/10 | Y | No future sampling of this well is recommended. |
| MW-85I | 12/04/10 | Y | No future sampling of this well is recommended. |
| MW-85D1 | 12/02/10 | Y | |
| MW-85D2 | 12/02/10 | Y | Cam locks replaced in December 2016. |
| MW-86D1 | 11/11/10 | Y | Cam locks replaced in December 2016. |
| MW-86D2 | 11/11/10 | Y | Cam locks replaced in December 2016. |
| MW-87D1 | 10/04/05 | Y | |
| MW-87D2 | 10/04/05 | Y | |
| MW-88D1 | 03/21/06 | Y | |
| MW-88D2 | 03/21/06 | Y | |
| MW-89D1 | 12/19/10 | Y | |
| MW-89D2 | 12/19/10 | Y | |
| MW-90D1 | 03/28/06 | Y | |
| MW-90D2 | 03/28/06 | Y | Cam locks replaced in December 2016. |
| MW-92D1 | 03/11/11 | Y | |
| MW-92D2 | 03/11/11 | Y | |
| MW-93D1 | 03/03/11 | Y | |
| MW-93D2 | 03/03/11 | Y | |
| VZ-1S | 03/15/11 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-1D | 03/15/11 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-2S | 02/12/11 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-2D | 02/12/11 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-4S | 04/30/11 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-4D | 04/30/11 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-5S | 03/11/11 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-5D | 03/11/11 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-6S | 02/26/11 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-6D | 02/26/11 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-10S | 01/19/06 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-10D | 01/19/06 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-11S | 02/28/06 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-11D | 02/28/06 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-12S | 12/05/10 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-12D | 12/05/10 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-14S | 10/07/05 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-14D | 10/07/05 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-15S | 11/04/05 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-15D | 11/04/05 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-16S | 01/23/06 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-16D | 01/23/06 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-17S | 12/20/10 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |
| VZ-17D | 12/20/10 | Y | Well no longer scheduled to monitor remediation of VCM subplume. |

Notes:

NA Not Applicable

Attachment A



Memorandum

December 21, 2017

To: Klaus Schmidtke

Ref. No.: 006883

From: Kathy Willy/cs/18 *kw*

Tel: 716-205-1942

**Subject: Analytical Results and Full Validation
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

1. Introduction

This document details a validation of analytical results for groundwater samples collected in support of the Semiannual Groundwater Monitoring at the Hicksville site during October through November 2017. Samples were submitted to Eurofins Spectrum Analytical, located in North Kingstown, Rhode Island. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples, and field Quality Assurance/Quality Control (QA/QC) samples. The assessment of analytical and in-house data included checks for data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

- i) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", United States Environmental Protection Agency (USEPA) 540-R-10-011, January 2010
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

These items will subsequently be referred to as the "Guidelines" in this Memorandum.



2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check)

Prior to volatile organic compound (VOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the method requires the analysis of specific tuning compound bromofluorobenzene (BFB). The resulting spectra must meet the criteria cited in the method before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

To quantify VOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

- i) All relative response factors (RRFs) must be greater than or equal to 0.05 (0.01 for poor responders).
- ii) The percent relative standard deviation (RSD) values must not exceed 20.0 percent (40.0 percent for poor responders) or a minimum correlation coefficient (R) of 0.995 and minimum coefficient of determination (R^2) of 0.99 if linear and quadratic equation calibration curves, respectively, are used.

The initial calibration data for VOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

5. Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For instrumental general chemistry analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater.



After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

| Analytical Method | Parameter | Control Limits |
|----------------------------|--|----------------|
| Instrumental Wet Chemistry | Total Organic Carbon (TOC), ammonia, nitrate, nitrite, phosphorous | 85 - 115% |

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for general chemistry analyses were properly calibrated prior to sample analysis.

6. Continuing Calibration - Organic Analyses

To ensure that instrument calibration for VOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

- i) All RRF values must be greater than or equal to 0.05 (0.01 for poor responders).
- ii) Percent difference (%D) values must not exceed 25 percent (40 percent for poor responders).

Calibration standards were analyzed at the required frequency, and most results met the above criteria for instrument sensitivity and stability. Some VOCs showed some variability. A summary of qualified results is presented in Table 4.

7. Continuing Calibration - Inorganic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

8. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for the inorganic parameters.



For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

8.1 Organic Analyses

All method blank results were non-detect indicating that laboratory contamination was not a factor for this investigation.

8.2 Inorganic Analyses

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation with the exception of a low concentration of nitrite (as N) in one method blank. All associated samples with concentrations similar to that found in the method blank were assumed a reflection of laboratory contamination and were qualified as non-detect. A summary of qualified results is presented in Table 5.

9. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for VOC determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries met the laboratory criteria.

10. Internal Standards (IS) Analyses

IS data were evaluated for all VOC sample analyses.

To ensure that changes in the GC/MS sensitivity and response do not affect sample analysis results IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

- i) The retention time of the IS must not vary more than ± 30 seconds from the associated calibration standard.
- ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard.

All VOC IS recoveries and retention times met the above criteria.



11. Laboratory Control Sample Analyses

LCS and laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

11.1 Organic Analyses

The LCS/LCSD contained all compounds of interest. Most LCS recoveries and RPDs were within the laboratory control limits demonstrating acceptable analytical accuracy and precision. Several VOC LCS outliers were reported and qualified as follows:

- i) Sample results associated with low LCS recoveries were qualified as estimated based on the implied low bias.
- ii) Positive sample results associated with high LCS recoveries and/or high RPDs were qualified as estimated based on the implied high bias/variability. Non-detect results would not have been impacted.

A summary of qualified results is presented in Table 6.

11.2 Inorganic Analyses

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries were within the control limits demonstrating acceptable analytical accuracy.

12. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the distillation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed at the proper frequency.

12.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. Most percent recoveries and RPD values were within the laboratory control limits demonstrating acceptable analytical accuracy and precision. Some low recoveries for chloromethane were reported. The associated sample results were qualified as estimated based on the implied low bias. A summary of qualified results is presented in Table 7.



12.2 Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits demonstrating acceptable analytical accuracy and precision.

13. Field QA/QC Samples

The field QA/QC consisted of six trip blank samples and three rinse blank samples.

13.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, six trip blanks were submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest with the exception of a low concentration of acetone. All associated samples with concentrations similar to that found in the method blank were qualified as non-detect. A summary of qualified results is presented in Table 8.

13.2 Rinse Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, three rinse blanks were submitted for analysis, as identified in Table 1. All results were non-detect for the analytes of interest with the exception of a low concentration of nitrate (as N) and nitrite (as N) in one blank. Associated sample results with concentration similar to that found in the blank were qualified as non-detect. A summary of qualified results is presented in Table 9.

14. Analyte Reporting

The laboratory reported detected results down to the laboratory's Method Detection Limit (MDL) for each analyte. Positive analyte detections less than the Practical Quantitation Limit (PQL) but greater than the MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

15. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.



16. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017

| Sample Identification | Location | Matrix | Collection Date (mm/dd/yyyy) | Collection Time (hr:min) | Analysis/Parameters | | | | | Comments |
|-----------------------|----------|--------|---------------------------------|-----------------------------|---------------------|------------------|-------------|-----|------|-------------|
| | | | | | Ammonia | Nitrate, Nitrite | Phosphorous | TOC | VOCs | |
| GW101617WF011 | - | Water | 10/16/2017 | 13:20 | x | x | x | x | x | Field Blank |
| GW101817WF036 | - | Water | 10/18/2017 | 14:10 | x | x | x | x | x | Field Blank |
| GW102017WF053 | - | Water | 10/20/2017 | 10:00 | x | x | x | x | x | Field Blank |
| GW101717WF012 | MW-58D | Water | 10/17/2017 | 09:05 | x | x | x | x | x | |
| GW101717WF013 | MW-58D1 | Water | 10/17/2017 | 09:25 | x | x | x | x | x | |
| GW110117WF057 | MW-58D2 | Water | 11/01/2017 | 11:00 | x | x | x | x | x | |
| GW101917WF043 | MW-59D2 | Water | 10/19/2017 | 10:18 | x | x | x | x | x | |
| GW101917WF046 | MW-61D2 | Water | 10/19/2017 | 11:30 | | x | | x | x | |
| GW101817WF026 | MW-62D | Water | 10/18/2017 | 09:05 | x | x | x | x | x | |
| GW101817WF025 | MW-62I | Water | 10/18/2017 | 09:00 | x | x | x | x | x | |
| GW110117WF055 | MW-63D1 | Water | 11/01/2017 | 10:05 | x | x | x | x | x | |
| GW110117WF056 | MW-63D2 | Water | 11/01/2017 | 10:10 | x | x | x | x | x | |
| GW101817WF028 | MW-63I | Water | 10/18/2017 | 10:10 | x | x | x | x | x | |
| GW101817WF027 | MW-63S | Water | 10/18/2017 | 10:03 | x | x | x | x | x | |
| GW101617WF006 | MW-66D2 | Water | 10/16/2017 | 11:35 | x | x | x | x | x | |
| GW101617WF008 | MW-67D | Water | 10/16/2017 | 12:20 | x | x | x | x | x | |
| GW101617WF007 | MW-67S | Water | 10/16/2017 | 12:15 | x | x | x | x | x | |
| GW101617WF010 | MW-68D | Water | 10/16/2017 | 13:04 | x | x | x | x | x | |
| GW101617WF009 | MW-68S | Water | 10/16/2017 | 12:58 | x | x | x | x | x | |
| GW101717WF023 | MW-70D1 | Water | 10/17/2017 | 13:33 | x | x | x | x | x | |
| GW101717WF024 | MW-70D2 | Water | 10/17/2017 | 13:45 | x | x | x | x | x | |
| GW101917WF037 | MW-72D1 | Water | 10/19/2017 | 08:05 | x | x | x | x | x | |
| GW101917WF038 | MW-72D2 | Water | 10/19/2017 | 08:10 | x | x | x | x | x | |
| GW101917WF039 | MW-73D1 | Water | 10/19/2017 | 08:45 | x | x | x | x | x | |
| GW101917WF040 | MW-73D2 | Water | 10/19/2017 | 08:50 | x | x | x | x | x | |
| GW101817WF034 | MW-75D1 | Water | 10/18/2017 | 13:45 | x | x | x | x | | |
| GW110117WF054 | MW-75D1 | Water | 11/01/2017 | 12:05 | | | | | x | |
| GW101817WF035 | MW-75D2 | Water | 10/18/2017 | 13:55 | x | x | x | x | x | |
| GW101717WF021 | MW-76D1 | Water | 10/17/2017 | 12:50 | x | x | x | x | x | |
| GW101717WF022 | MW-76D2 | Water | 10/17/2017 | 13:25 | x | x | x | x | x | |
| GW101717WF014 | MW-76I | Water | 10/17/2017 | 12:40 | x | x | x | x | x | |
| GW101817WF031 | MW-77D2 | Water | 10/18/2017 | 12:45 | x | x | x | x | x | |
| GW101917WF044 | MW-81D1 | Water | 10/19/2017 | 10:45 | x | x | x | x | x | |
| GW101917WF045 | MW-81D2 | Water | 10/19/2017 | 11:00 | x | x | x | x | x | |
| GW101717WF015 | MW-82D1 | Water | 10/17/2017 | 09:45 | x | x | x | x | x | |
| GW101717WF016 | MW-82D2 | Water | 10/17/2017 | 09:55 | x | x | x | x | x | |
| GW102017WF051 | MW-83D1 | Water | 10/20/2017 | 09:00 | x | x | x | x | x | |
| GW102017WF052 | MW-83D2 | Water | 10/20/2017 | 09:10 | x | x | x | x | x | |
| GW101717WF019 | MW-84D1 | Water | 10/17/2017 | 11:35 | x | x | x | x | x | |
| GW101717WF020 | MW-84D2 | Water | 10/17/2017 | 11:25 | x | x | x | x | x | |

Table 1

**Sample Collection and Analysis Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Sample Identification | Location | Matrix | Collection Date (mm/dd/yyyy) | Collection Time (hr:min) | Analysis/Parameters | | | | | Comments |
|-----------------------|----------|--------|---------------------------------|-----------------------------|---------------------|------------------|-------------|-----|------|------------|
| | | | | | Ammonia | Nitrate, Nitrite | Phosphorous | TOC | VOCs | |
| GW101617WF003 | MW-85D1 | Water | 10/16/2017 | 10:00 | x | x | x | x | x | |
| GW101617WF004 | MW-85D2 | Water | 10/16/2017 | 10:05 | x | x | x | x | x | |
| GW101617WF005 | MW-85I | Water | 10/16/2017 | 10:25 | x | x | x | x | x | |
| GW102017WF049 | MW-86D1 | Water | 10/20/2017 | 08:15 | x | x | x | x | x | |
| GW102017WF050 | MW-86D2 | Water | 10/20/2017 | 08:20 | x | x | x | x | x | |
| GW101917WF047 | MW-87D1 | Water | 10/19/2017 | 12:05 | x | x | x | x | x | |
| GW101917WF048 | MW-87D2 | Water | 10/19/2017 | 12:15 | x | x | x | x | x | |
| GW101717WF017 | MW-88D1 | Water | 10/17/2017 | 10:45 | x | x | x | x | x | |
| GW101717WF018 | MW-88D2 | Water | 10/17/2017 | 10:50 | x | x | x | x | x | |
| GW101617WF001 | MW-89D1 | Water | 10/16/2017 | 09:25 | x | x | x | x | x | |
| GW101617WF002 | MW-89D2 | Water | 10/16/2017 | 09:21 | x | x | x | x | x | |
| GW101917WF041 | MW-90D1 | Water | 10/19/2017 | 09:25 | | | | | x | |
| GW101917WF042 | MW-90D2 | Water | 10/19/2017 | 09:30 | | | | | x | |
| GW101817WF033 | MW-92D1 | Water | 10/18/2017 | 11:45 | x | x | x | x | x | |
| GW101817WF032 | MW-92D2 | Water | 10/18/2017 | 11:55 | x | x | x | x | x | |
| GW101817WF030 | MW-93D1 | Water | 10/18/2017 | 12:30 | x | x | x | x | x | |
| GW101817WF029 | MW-93D2 | Water | 10/18/2017 | 12:15 | x | x | x | x | x | |
| Trip Blank A | - | Water | 10/16/2017 | - | | | | | x | Trip Blank |
| Trip Blank | - | Water | 10/17/2017 | - | | | | | x | Trip Blank |
| Trip Blank | - | Water | 10/18/2017 | - | | | | | x | Trip Blank |
| Trip Blank | - | Water | 10/19/2017 | - | | | | | x | Trip Blank |
| Trip Blank | - | Water | 10/20/2017 | - | | | | | x | Trip Blank |
| Trip Blank | - | Water | 11/01/2017 | - | | | | | x | Trip Blank |

Notes:

- TOC - Total Organic Carbon
VOCs - Volatile Organic Compounds
- - Not applicable

Table 2

**Analytical Results Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Location ID: | MW-58D | MW-58D1 | MW-58D2 | MW-59D2 | MW-61D2 | MW-62D | MW-62I |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sample Name: | GW101717WF012 | GW101717WF013 | GW110117WF057 | GW101917WF043 | GW101917WF046 | GW101817WF026 | GW101817WF025 |
| Sample Date: | 10/17/2017 | 10/17/2017 | 11/01/2017 | 10/19/2017 | 10/19/2017 | 10/18/2017 | 10/18/2017 |

| Parameters | Unit | | | | | | | |
|--|------|--------|---------|---------|---------|---------|---------|---------|
| Volatile Organic Compounds | | | | | | | | |
| 1,1,1-Trichloroethane | µg/L | 50.0 U | 50.0 UJ | 5.47 | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,1,2,2-Tetrachloroethane | µg/L | 25.0 U | 25.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,1,2-Trichloroethane | µg/L | 50.0 U | 50.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,1-Dichloroethane | µg/L | 50.0 U | 50.0 U | 13.4 | 0.37 J | 0.92 J | 1.61 | 1.00 U |
| 1,1-Dichloroethene | µg/L | 52.0 J | 47.0 J | 68.6 | 1.00 U | 1.00 UJ | 3.26 | 1.00 U |
| 1,2-Dichloroethane | µg/L | 50.0 U | 50.0 U | 0.57 J | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,2-Dichloropropane | µg/L | 50.0 U | 50.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 2-Butanone (Methyl ethyl ketone) (MEK) | µg/L | 100 U | 100 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| 2-Hexanone | µg/L | 100 U | 100 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 100 U | 100 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Acetone | µg/L | 500 U | 500 U | 13.0 U | 5.84 J | 6.99 J | 5.63 J | 7.83 J |
| Benzene | µg/L | 50.0 U | 50.0 U | 1.00 U | 0.70 J | 1.00 U | 1.00 U | 1.00 U |
| Bromodichloromethane | µg/L | 25.0 U | 25.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Bromoform | µg/L | 50.0 U | 50.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Bromomethane (Methyl bromide) | µg/L | 100 U | 100 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Carbon disulfide | µg/L | 100 U | 100 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Carbon tetrachloride | µg/L | 50.0 U | 50.0 U | 1.00 UJ | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Chlorobenzene | µg/L | 50.0 U | 50.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 0.26 J |
| Chloroethane | µg/L | 100 U | 100 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 1.79 J |
| Chloroform (Trichloromethane) | µg/L | 50.0 U | 50.0 U | 0.90 J | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Chloromethane (Methyl chloride) | µg/L | 100 UJ | 100 U | 2.00 U | 2.00 U | 2.00 U | 2.00 UJ | 2.00 UJ |
| cis-1,2-Dichloroethene | µg/L | 18.0 J | 50.0 U | 14.8 | 0.51 J | 3.40 | 0.94 J | 6.07 |
| cis-1,3-Dichloropropene | µg/L | 25.0 U | 25.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Dibromochloromethane | µg/L | 25.0 U | 25.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Ethylbenzene | µg/L | 50.0 U | 50.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Methylene chloride | µg/L | 100 U | 100 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Styrene | µg/L | 50.0 U | 50.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Tetrachloroethene | µg/L | 58.5 | 59.5 | 82.7 | 0.58 J | 61.7 | 1.52 | 12.6 |
| Toluene | µg/L | 50.0 U | 50.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| trans-1,2-Dichloroethene | µg/L | 50.0 U | 50.0 UJ | 0.66 J | 1.00 UJ | 1.00 U | 1.00 U | 1.00 U |
| trans-1,3-Dichloropropene | µg/L | 25.0 U | 25.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Trichloroethene | µg/L | 3670 | 3300 | 4140 | 4.36 | 55.0 | 2.19 | 2.86 |
| Vinyl chloride | µg/L | 50.0 U | 50.0 U | 1.00 U | 1.00 U | 1.00 U | 3.70 | 7.93 |
| Xylenes (total) | µg/L | 50.0 U | 50.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |

Table 2
Analytical Results Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017

| Location ID: | MW-58D | MW-58D1 | MW-58D2 | MW-59D2 | MW-61D2 | MW-62D | MW-62I |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sample Name: | GW101717WF012 | GW101717WF013 | GW110117WF057 | GW101917WF043 | GW101917WF046 | GW101817WF026 | GW101817WF025 |
| Sample Date: | 10/17/2017 | 10/17/2017 | 11/01/2017 | 10/19/2017 | 10/19/2017 | 10/18/2017 | 10/18/2017 |

| Parameters | Unit | MW-58D | MW-58D1 | MW-58D2 | MW-59D2 | MW-61D2 | MW-62D | MW-62I |
|----------------------------|------|--------|---------|---------|---------|---------|---------|---------|
| General Chemistry | | | | | | | | |
| Ammonia-N | mg/L | 1.46 | 1.73 | 1.09 | 4.19 | -- | 0.55 | 0.06 |
| Phosphorus | mg/L | 0.083 | 0.027 | 0.067 | 0.074 | -- | 0.152 | 0.066 |
| Nitrate (as N) | mg/L | 1.00 U | 1.38 | 1.56 | 0.500 U | 1.25 U | 0.500 U | 0.500 U |
| Nitrite (as N) | mg/L | 1.13 | 1.00 U | 1.00 U | 0.500 U | 0.459 J | 0.500 U | 0.500 U |
| Total organic carbon (TOC) | mg/L | 2.44 | 2.92 | 2.33 | 2.10 | 0.422 J | 0.786 J | 0.808 J |

Notes:

- J - Estimated concentration
- U - Not detected at the associated reporting limit
- UJ - Not detected; associated reporting limit is estimated

Table 2

**Analytical Results Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Location ID: | MW-63D1 | MW-63D2 | MW-63I | MW-63S | MW-66D2 | MW-67D | MW-67S |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sample Name: | GW110117WF055 | GW110117WF056 | GW101817WF028 | GW101817WF027 | GW101617WF006 | GW101617WF008 | GW101617WF007 |
| Sample Date: | 11/01/2017 | 11/01/2017 | 10/18/2017 | 10/18/2017 | 10/16/2017 | 10/16/2017 | 10/16/2017 |

| Parameters | Unit | | | | | | | |
|--|------|---------|---------|---------|---------|---------|---------|---------|
| Volatile Organic Compounds | | | | | | | | |
| 1,1,1-Trichloroethane | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,1,2,2-Tetrachloroethane | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,1,2-Trichloroethane | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,1-Dichloroethane | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 0.63 J | 0.33 J | 2.10 |
| 1,1-Dichloroethene | µg/L | 1.00 U | 1.00 U | 1.00 UJ | 1.00 U | 1.00 U | 1.00 U | 0.72 J |
| 1,2-Dichloroethane | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,2-Dichloropropane | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 2-Butanone (Methyl ethyl ketone) (MEK) | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| 2-Hexanone | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Acetone | µg/L | 30.6 | 15.5 U | 6.85 J | 6.00 J | 6.25 J | 5.03 J | 4.93 J |
| Benzene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Bromodichloromethane | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Bromoform | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Bromomethane (Methyl bromide) | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Carbon disulfide | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Carbon tetrachloride | µg/L | 1.00 UJ | 1.00 UJ | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Chlorobenzene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Chloroethane | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.67 |
| Chloroform (Trichloromethane) | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Chloromethane (Methyl chloride) | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 UJ | 2.00 UJ | 2.00 UJ | 2.00 UJ |
| cis-1,2-Dichloroethene | µg/L | 0.62 J | 0.53 J | 1.00 U | 0.40 J | 1.00 U | 1.00 U | 4.28 |
| cis-1,3-Dichloropropene | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Dibromochloromethane | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Ethylbenzene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Methylene chloride | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Styrene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Tetrachloroethene | µg/L | 4.50 | 4.65 | 1.36 | 3.86 | 0.61 J | 0.66 J | 60.1 |
| Toluene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| trans-1,2-Dichloroethene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| trans-1,3-Dichloropropene | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Trichloroethene | µg/L | 1.73 | 1.78 | 1.20 | 2.67 | 0.91 J | 0.80 J | 66.3 |
| Vinyl chloride | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 0.65 J |
| Xylenes (total) | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |

Table 2

**Analytical Results Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Location ID: | MW-63D1 | MW-63D2 | MW-63I | MW-63S | MW-66D2 | MW-67D | MW-67S |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sample Name: | GW110117WF055 | GW110117WF056 | GW101817WF028 | GW101817WF027 | GW101617WF006 | GW101617WF008 | GW101617WF007 |
| Sample Date: | 11/01/2017 | 11/01/2017 | 10/18/2017 | 10/18/2017 | 10/16/2017 | 10/16/2017 | 10/16/2017 |

| Parameters | Unit | MW-63D1 | MW-63D2 | MW-63I | MW-63S | MW-66D2 | MW-67D | MW-67S |
|----------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| General Chemistry | | | | | | | | |
| Ammonia-N | mg/L | 0.08 | 0.08 | 0.05 | 0.10 | 2.15 | 0.36 | 0.31 |
| Phosphorus | mg/L | 0.025 | 0.022 | 0.010 U | 0.010 U | 0.037 | 0.123 | 0.010 U |
| Nitrate (as N) | mg/L | 1.54 | 2.82 | 2.22 U | 2.60 U | 1.25 | 1.00 U | 1.00 U |
| Nitrite (as N) | mg/L | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 0.600 J | 0.541 J | 0.575 J |
| Total organic carbon (TOC) | mg/L | 0.618 J | 0.602 J | 0.591 J | 0.659 J | 1.65 | 0.815 J | 1.66 |

Notes:

- J - Estimated concentration
- U - Not detected at the associated reporting limit
- UJ - Not detected; associated reporting limit is estimated

Table 2

**Analytical Results Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| | | | | | | | |
|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Location ID: | MW-68D | MW-68S | MW-70D1 | MW-70D2 | MW-72D1 | MW-72D2 | MW-73D1 |
| Sample Name: | GW101617WF010 | GW101617WF009 | GW101717WF023 | GW101717WF024 | GW101917WF037 | GW101917WF038 | GW101917WF039 |
| Sample Date: | 10/16/2017 | 10/16/2017 | 10/17/2017 | 10/17/2017 | 10/19/2017 | 10/19/2017 | 10/19/2017 |

| Parameters | Unit | | | | | | | |
|--|------|---------|---------|---------|---------|---------|---------|---------|
| Volatile Organic Compounds | | | | | | | | |
| 1,1,1-Trichloroethane | µg/L | 1.00 U | 1.00 U | 1.00 UJ | 1.00 UJ | 1.00 U | 5.00 U | 1.00 U |
| 1,1,2,2-Tetrachloroethane | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 2.50 U | 0.50 U |
| 1,1,2-Trichloroethane | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 5.00 U | 1.00 U |
| 1,1-Dichloroethane | µg/L | 2.70 | 2.05 | 1.00 U | 1.00 U | 1.00 UJ | 5.00 UJ | 1.00 UJ |
| 1,1-Dichloroethene | µg/L | 0.87 J | 2.80 | 1.00 U | 1.00 U | 1.00 U | 5.00 U | 1.00 U |
| 1,2-Dichloroethane | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 5.00 U | 1.00 U |
| 1,2-Dichloropropane | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 5.00 U | 1.00 U |
| 2-Butanone (Methyl ethyl ketone) (MEK) | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 10.0 U | 2.00 U |
| 2-Hexanone | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 10.0 U | 2.00 U |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 10.0 U | 2.00 U |
| Acetone | µg/L | 7.26 J | 48.5 | 5.85 J | 7.43 J | 5.87 J | 36.0 J | 6.91 J |
| Benzene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 5.00 U | 1.00 U |
| Bromodichloromethane | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 2.50 U | 0.50 U |
| Bromoform | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 5.00 U | 1.00 U |
| Bromomethane (Methyl bromide) | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 10.0 U | 2.00 U |
| Carbon disulfide | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 10.0 U | 2.00 U |
| Carbon tetrachloride | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 5.00 U | 1.00 U |
| Chlorobenzene | µg/L | 1.00 U | 0.37 J | 1.00 U | 1.00 U | 1.00 U | 5.00 U | 1.00 U |
| Chloroethane | µg/L | 2.00 U | 5.13 | 2.00 U | 2.00 U | 2.00 U | 10.0 U | 2.00 U |
| Chloroform (Trichloromethane) | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 5.00 U | 1.00 U |
| Chloromethane (Methyl chloride) | µg/L | 2.00 UJ | 2.00 UJ | 2.00 U | 2.00 U | 2.00 U | 10.0 UJ | 2.00 U |
| cis-1,2-Dichloroethene | µg/L | 1.00 U | 6.24 | 0.37 J | 1.00 U | 1.00 U | 31.4 | 1.00 U |
| cis-1,3-Dichloropropene | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 2.50 U | 0.50 U |
| Dibromochloromethane | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 2.50 U | 0.50 U |
| Ethylbenzene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 5.00 U | 1.00 U |
| Methylene chloride | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 10.0 U | 2.00 U |
| Styrene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 5.00 U | 1.00 U |
| Tetrachloroethene | µg/L | 2.47 | 86.9 | 1.09 | 1.00 U | 1.00 U | 84.8 | 1.68 |
| Toluene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 5.00 U | 1.00 U |
| trans-1,2-Dichloroethene | µg/L | 1.00 U | 1.00 U | 1.00 UJ | 1.00 UJ | 1.00 UJ | 5.00 UJ | 1.00 UJ |
| trans-1,3-Dichloropropene | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 2.50 U | 0.50 U |
| Trichloroethene | µg/L | 5.39 | 93.1 | 0.71 J | 1.00 U | 1.00 U | 10.8 | 0.51 J |
| Vinyl chloride | µg/L | 1.00 U | 143 | 3.15 | 1.00 U | 1.00 U | 5.00 U | 1.00 U |
| Xylenes (total) | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 5.00 U | 1.00 U |

Table 2

Analytical Results Summary
 Semiannual Groundwater Monitoring
 Glenn Springs Holdings, Inc.
 Hicksville, New York
 October-November 2017

| Location ID: | MW-68D | MW-68S | MW-70D1 | MW-70D2 | MW-72D1 | MW-72D2 | MW-73D1 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sample Name: | GW101617WF010 | GW101617WF009 | GW101717WF023 | GW101717WF024 | GW101917WF037 | GW101917WF038 | GW101917WF039 |
| Sample Date: | 10/16/2017 | 10/16/2017 | 10/17/2017 | 10/17/2017 | 10/19/2017 | 10/19/2017 | 10/19/2017 |

| Parameters | Unit | MW-68D | MW-68S | MW-70D1 | MW-70D2 | MW-72D1 | MW-72D2 | MW-73D1 |
|----------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| General Chemistry | | | | | | | | |
| Ammonia-N | mg/L | 3.22 | 1.31 | 0.20 | 0.51 | 0.55 | 0.50 U | 0.72 |
| Phosphorus | mg/L | 0.021 | 0.027 | 0.010 U | 0.069 | 0.022 | 0.053 | 0.034 |
| Nitrate (as N) | mg/L | 0.500 U | 0.850 | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U |
| Nitrite (as N) | mg/L | 0.332 J | 0.266 J | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U |
| Total organic carbon (TOC) | mg/L | 1.29 | 0.919 J | 0.940 J | 5.83 | 1.21 | 0.512 J | 1.10 |

Notes:

- J - Estimated concentration
- U - Not detected at the associated reporting limit
- UJ - Not detected; associated reporting limit is estimated

Table 2

**Analytical Results Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| | | | | | | | |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Location ID: | MW-73D2 | MW-75D1 | MW-75D1 | MW-75D2 | MW-76D1 | MW-76D2 | MW-76I |
| Sample Name: | GW101917WF040 | GW101817WF034 | GW110117WF054 | GW101817WF035 | GW101717WF021 | GW101717WF022 | GW101717WF014 |
| Sample Date: | 10/19/2017 | 10/18/2017 | 11/01/2017 | 10/18/2017 | 10/17/2017 | 10/17/2017 | 10/17/2017 |

| Parameters | Unit | | | | | | |
|--|------|---------|----|---------|---------|---------|---------|
| Volatile Organic Compounds | | | | | | | |
| 1,1,1-Trichloroethane | µg/L | 1.00 U | -- | 1.00 U | 1.00 U | 1.00 UJ | 1.00 UJ |
| 1,1,1,2-Tetrachloroethane | µg/L | 0.50 U | -- | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,1,2-Trichloroethane | µg/L | 1.00 U | -- | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,1-Dichloroethane | µg/L | 1.00 UJ | -- | 1.00 U | 1.00 U | 1.00 U | 0.35 J |
| 1,1-Dichloroethene | µg/L | 1.00 U | -- | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,2-Dichloroethane | µg/L | 1.00 U | -- | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,2-Dichloropropane | µg/L | 1.00 U | -- | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 2-Butanone (Methyl ethyl ketone) (MEK) | µg/L | 2.00 U | -- | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| 2-Hexanone | µg/L | 2.00 U | -- | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 2.00 U | -- | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Acetone | µg/L | 6.22 J | -- | 15.8 U | 6.16 J | 6.27 J | 7.75 J |
| Benzene | µg/L | 1.00 U | -- | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Bromodichloromethane | µg/L | 0.50 U | -- | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Bromoform | µg/L | 1.00 U | -- | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Bromomethane (Methyl bromide) | µg/L | 2.00 U | -- | 1.94 J | 2.00 U | 2.00 U | 2.00 U |
| Carbon disulfide | µg/L | 2.00 U | -- | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Carbon tetrachloride | µg/L | 1.00 U | -- | 1.00 UJ | 1.00 U | 1.00 U | 1.00 U |
| Chlorobenzene | µg/L | 1.00 U | -- | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Chloroethane | µg/L | 2.00 U | -- | 2.00 U | 2.00 U | 2.00 U | 1.94 J |
| Chloroform (Trichloromethane) | µg/L | 1.00 U | -- | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Chloromethane (Methyl chloride) | µg/L | 2.00 U | -- | 2.00 U | 2.00 UJ | 2.00 U | 2.00 U |
| cis-1,2-Dichloroethene | µg/L | 0.91 J | -- | 3.74 | 0.87 J | 0.40 J | 1.98 |
| cis-1,3-Dichloropropene | µg/L | 0.50 U | -- | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Dibromochloromethane | µg/L | 0.50 U | -- | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Ethylbenzene | µg/L | 1.00 U | -- | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Methylene chloride | µg/L | 2.00 U | -- | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Styrene | µg/L | 1.00 U | -- | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Tetrachloroethene | µg/L | 7.24 | -- | 3.66 | 0.68 J | 1.87 | 5.63 |
| Toluene | µg/L | 1.00 U | -- | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| trans-1,2-Dichloroethene | µg/L | 1.00 UJ | -- | 1.00 U | 1.00 U | 1.00 UJ | 1.00 UJ |
| trans-1,3-Dichloropropene | µg/L | 0.50 U | -- | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Trichloroethene | µg/L | 2.46 | -- | 3.25 | 0.72 J | 0.60 J | 2.59 |
| Vinyl chloride | µg/L | 1.00 U | -- | 1.00 U | 5.00 | 1.78 | 1.00 U |
| Xylenes (total) | µg/L | 1.00 U | -- | 1.00 U | 1.00 U | 1.00 U | 1.00 U |

Table 2

**Analytical Results Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| | | | | | | | |
|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Location ID: | MW-73D2 | MW-75D1 | MW-75D1 | MW-75D2 | MW-76D1 | MW-76D2 | MW-76I |
| Sample Name: | GW101917WF040 | GW101817WF034 | GW110117WF054 | GW101817WF035 | GW101717WF021 | GW101717WF022 | GW101717WF014 |
| Sample Date: | 10/19/2017 | 10/18/2017 | 11/01/2017 | 10/18/2017 | 10/17/2017 | 10/17/2017 | 10/17/2017 |

| Parameters | Unit | | | | | | | |
|----------------------------|-------------|---------|--------|----|--------|---------|---------|--------|
| General Chemistry | | | | | | | | |
| Ammonia-N | mg/L | 0.69 | 0.75 | -- | 0.57 | 0.19 | 0.38 | 0.18 |
| Phosphorus | mg/L | 0.037 | 0.036 | -- | 0.042 | 0.010 U | 0.010 U | 0.027 |
| Nitrate (as N) | mg/L | 2.00 U | 1.00 U | -- | 1.00 U | 1.00 U | 2.00 U | 1.00 U |
| Nitrite (as N) | mg/L | 2.00 U | 1.00 U | -- | 1.00 U | 1.00 U | 2.00 U | 1.07 |
| Total organic carbon (TOC) | mg/L | 0.614 J | 4.72 | -- | 3.17 | 1.46 | 2.25 | 1.51 |

Notes:

- J - Estimated concentration
- U - Not detected at the associated reporting limit
- UJ - Not detected; associated reporting limit is estimated

Table 2

**Analytical Results Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| | | | | | | | |
|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Location ID: | MW-77D2 | MW-81D1 | MW-81D2 | MW-82D1 | MW-82D2 | MW-83D1 | MW-83D2 |
| Sample Name: | GW101817WF031 | GW101917WF044 | GW101917WF045 | GW101717WF015 | GW101717WF016 | GW102017WF051 | GW102017WF052 |
| Sample Date: | 10/18/2017 | 10/19/2017 | 10/19/2017 | 10/17/2017 | 10/17/2017 | 10/20/2017 | 10/20/2017 |

| Parameters | Unit | | | | | | | |
|--|------|---------|---------|---------|--------|--------|--------|--------|
| Volatile Organic Compounds | | | | | | | | |
| 1,1,1-Trichloroethane | µg/L | 5.00 U | 5.00 U | 5.00 U | 1.00 U | 1.00 U | 2.00 U | 2.00 U |
| 1,1,2,2-Tetrachloroethane | µg/L | 2.50 U | 2.50 U | 2.50 U | 0.50 U | 0.50 U | 1.00 U | 1.00 U |
| 1,1,2-Trichloroethane | µg/L | 5.00 U | 5.00 U | 5.00 U | 1.00 U | 1.00 U | 2.00 U | 2.00 U |
| 1,1-Dichloroethane | µg/L | 2.50 J | 5.00 UJ | 5.00 UJ | 6.92 | 1.01 | 2.00 U | 0.78 J |
| 1,1-Dichloroethene | µg/L | 5.00 U | 5.00 U | 5.00 U | 1.00 U | 1.00 U | 2.00 U | 2.00 U |
| 1,2-Dichloroethane | µg/L | 5.00 U | 5.00 U | 5.00 U | 1.00 U | 1.00 U | 2.00 U | 2.00 U |
| 1,2-Dichloropropane | µg/L | 5.00 U | 5.00 U | 5.00 U | 1.00 U | 1.00 U | 2.00 U | 2.00 U |
| 2-Butanone (Methyl ethyl ketone) (MEK) | µg/L | 10.0 U | 10.0 U | 10.0 U | 2.00 U | 2.00 U | 4.00 U | 4.00 U |
| 2-Hexanone | µg/L | 10.0 U | 10.0 U | 10.0 U | 2.00 U | 2.00 U | 4.00 U | 4.00 U |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 10.0 U | 10.0 U | 10.0 U | 2.00 U | 2.00 U | 4.00 U | 4.00 U |
| Acetone | µg/L | 50.0 U | 50.0 U | 50.0 U | 5.92 J | 3.74 J | 20.0 U | 20.0 U |
| Benzene | µg/L | 5.00 U | 5.00 U | 5.00 U | 1.00 U | 1.00 U | 2.00 U | 2.00 U |
| Bromodichloromethane | µg/L | 2.50 U | 2.50 U | 2.50 U | 0.50 U | 0.50 U | 1.00 U | 1.00 U |
| Bromoform | µg/L | 5.00 U | 5.00 U | 5.00 U | 1.00 U | 1.00 U | 2.00 U | 2.00 U |
| Bromomethane (Methyl bromide) | µg/L | 10.0 U | 10.0 U | 10.0 U | 2.00 U | 2.00 U | 4.00 U | 4.00 U |
| Carbon disulfide | µg/L | 10.0 U | 10.0 U | 10.0 U | 2.00 U | 2.00 U | 4.00 U | 4.00 U |
| Carbon tetrachloride | µg/L | 5.00 U | 5.00 U | 5.00 U | 1.00 U | 1.00 U | 2.00 U | 2.00 U |
| Chlorobenzene | µg/L | 5.00 U | 5.00 U | 5.00 U | 1.00 U | 1.00 U | 2.00 U | 2.00 U |
| Chloroethane | µg/L | 10.0 U | 4.55 J | 10.0 U | 2.00 U | 2.00 U | 3.28 J | 4.00 U |
| Chloroform (Trichloromethane) | µg/L | 5.00 U | 5.00 U | 5.00 U | 1.00 U | 1.00 U | 2.00 U | 2.00 U |
| Chloromethane (Methyl chloride) | µg/L | 10.0 UJ | 10.0 U | 10.0 U | 2.00 U | 2.00 U | 4.00 U | 4.00 U |
| cis-1,2-Dichloroethene | µg/L | 6.90 | 6.20 | 12.2 | 0.72 J | 1.26 | 16.9 | 14.0 |
| cis-1,3-Dichloropropene | µg/L | 2.50 U | 2.50 U | 2.50 U | 0.50 U | 0.50 U | 1.00 U | 1.00 U |
| Dibromochloromethane | µg/L | 2.50 U | 2.50 U | 2.50 U | 0.50 U | 0.50 U | 1.00 U | 1.00 U |
| Ethylbenzene | µg/L | 5.00 U | 5.00 U | 5.00 U | 1.00 U | 1.00 U | 2.00 U | 2.00 U |
| Methylene chloride | µg/L | 10.0 U | 10.0 U | 10.0 U | 2.00 U | 2.00 U | 4.00 U | 4.00 U |
| Styrene | µg/L | 5.00 U | 5.00 U | 5.00 U | 1.00 U | 1.00 U | 2.00 U | 2.00 U |
| Tetrachloroethene | µg/L | 164 | 54.0 | 75.8 | 21.3 | 1.00 U | 88.9 | 104 |
| Toluene | µg/L | 5.00 U | 5.00 U | 5.00 U | 1.00 U | 1.00 U | 2.00 U | 2.00 U |
| trans-1,2-Dichloroethene | µg/L | 5.00 U | 5.00 UJ | 5.00 UJ | 1.00 U | 1.00 U | 2.00 U | 2.00 U |
| trans-1,3-Dichloropropene | µg/L | 2.50 U | 2.50 U | 2.50 U | 0.50 U | 0.50 U | 1.00 U | 1.00 U |
| Trichloroethene | µg/L | 32.3 | 91.9 | 13.4 | 15.4 | 1.00 U | 173 | 156 |
| Vinyl chloride | µg/L | 5.00 U | 5.00 U | 5.00 U | 1.00 U | 1.00 U | 2.00 U | 2.00 U |
| Xylenes (total) | µg/L | 5.00 U | 5.00 U | 5.00 U | 1.00 U | 1.00 U | 2.00 U | 2.00 U |

Table 2

**Analytical Results Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Location ID: | MW-77D2 | MW-81D1 | MW-81D2 | MW-82D1 | MW-82D2 | MW-83D1 | MW-83D2 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sample Name: | GW101817WF031 | GW101917WF044 | GW101917WF045 | GW101717WF015 | GW101717WF016 | GW102017WF051 | GW102017WF052 |
| Sample Date: | 10/18/2017 | 10/19/2017 | 10/19/2017 | 10/17/2017 | 10/17/2017 | 10/20/2017 | 10/20/2017 |

| Parameters | Unit | MW-77D2 | MW-81D1 | MW-81D2 | MW-82D1 | MW-82D2 | MW-83D1 | MW-83D2 |
|----------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| General Chemistry | | | | | | | | |
| Ammonia-N | mg/L | 1.32 | 0.56 | 1.13 | 0.10 | 2.97 | 0.18 | 0.21 |
| Phosphorus | mg/L | 0.010 U | 0.056 | 0.065 | 0.014 | 0.010 U | 0.010 U | 0.294 |
| Nitrate (as N) | mg/L | 1.00 U | 3.90 | 0.500 U | 1.36 | 1.00 U | 1.88 | 5.00 |
| Nitrite (as N) | mg/L | 0.480 J | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 0.500 U | 0.500 U |
| Total organic carbon (TOC) | mg/L | 0.555 J | 0.861 J | 1.62 | 0.512 J | 1.05 | 0.865 J | 0.712 J |

Notes:

- J - Estimated concentration
- U - Not detected at the associated reporting limit
- UJ - Not detected; associated reporting limit is estimated

Table 2

**Analytical Results Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Location ID: | MW-84D1 | MW-84D2 | MW-85D1 | MW-85D2 | MW-85I | MW-86D1 | MW-86D2 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sample Name: | GW101717WF019 | GW101717WF020 | GW101617WF003 | GW101617WF004 | GW101617WF005 | GW102017WF049 | GW102017WF050 |
| Sample Date: | 10/17/2017 | 10/17/2017 | 10/16/2017 | 10/16/2017 | 10/16/2017 | 10/20/2017 | 10/20/2017 |

| Parameters | Unit | MW-84D1 | MW-84D2 | MW-85D1 | MW-85D2 | MW-85I | MW-86D1 | MW-86D2 |
|--|------|---------|---------|---------|---------|---------|---------|---------|
| Volatile Organic Compounds | | | | | | | | |
| 1,1,1-Trichloroethane | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U |
| 1,1,2,2-Tetrachloroethane | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.00 U |
| 1,1,2-Trichloroethane | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U |
| 1,1-Dichloroethane | µg/L | 2.37 | 1.81 | 3.73 | 2.10 | 0.45 J | 1.00 U | 2.00 U |
| 1,1-Dichloroethene | µg/L | 0.81 J | 1.00 U | 1.00 U | 1.00 U | 0.75 J | 1.00 U | 1.76 J |
| 1,2-Dichloroethane | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U |
| 1,2-Dichloropropane | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U |
| 2-Butanone (Methyl ethyl ketone) (MEK) | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 4.00 U |
| 2-Hexanone | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 4.00 U |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 4.00 U |
| Acetone | µg/L | 6.83 J | 8.18 J | 6.17 J | 4.17 J | 9.38 J | 10.0 U | 20.0 U |
| Benzene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U |
| Bromodichloromethane | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.00 U |
| Bromoform | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U |
| Bromomethane (Methyl bromide) | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 4.00 U |
| Carbon disulfide | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 4.00 U |
| Carbon tetrachloride | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U |
| Chlorobenzene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U |
| Chloroethane | µg/L | 2.00 U | 2.00 U | 1.91 J | 2.00 U | 0.83 J | 0.72 J | 4.00 U |
| Chloroform (Trichloromethane) | µg/L | 1.00 U | 0.48 J | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U |
| Chloromethane (Methyl chloride) | µg/L | 2.00 U | 2.00 U | 2.00 UJ | 2.00 UJ | 2.00 UJ | 2.00 U | 4.00 U |
| cis-1,2-Dichloroethene | µg/L | 0.81 J | 1.77 | 0.72 J | 1.00 U | 1.00 U | 1.15 | 16.8 |
| cis-1,3-Dichloropropene | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.00 U |
| Dibromochloromethane | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.00 U |
| Ethylbenzene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U |
| Methylene chloride | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 4.00 U |
| Styrene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U |
| Tetrachloroethene | µg/L | 20.9 | 7.23 | 1.38 | 4.18 | 4.41 | 1.23 | 28.6 |
| Toluene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U |
| trans-1,2-Dichloroethene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U |
| trans-1,3-Dichloropropene | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.00 U |
| Trichloroethene | µg/L | 11.3 | 27.2 | 1.64 | 5.63 | 3.60 | 0.98 J | 149 |
| Vinyl chloride | µg/L | 1.00 U | 1.00 U | 2.14 | 1.00 U | 1.00 U | 1.00 U | 2.00 U |
| Xylenes (total) | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U |

Table 2

**Analytical Results Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Location ID: | MW-84D1 | MW-84D2 | MW-85D1 | MW-85D2 | MW-85I | MW-86D1 | MW-86D2 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sample Name: | GW101717WF019 | GW101717WF020 | GW101617WF003 | GW101617WF004 | GW101617WF005 | GW102017WF049 | GW102017WF050 |
| Sample Date: | 10/17/2017 | 10/17/2017 | 10/16/2017 | 10/16/2017 | 10/16/2017 | 10/20/2017 | 10/20/2017 |

| Parameters | Unit | MW-84D1 | MW-84D2 | MW-85D1 | MW-85D2 | MW-85I | MW-86D1 | MW-86D2 |
|----------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| General Chemistry | | | | | | | | |
| Ammonia-N | mg/L | 0.12 | 0.35 | 0.18 | 0.87 | 0.16 | 0.60 | 1.00 |
| Phosphorus | mg/L | 0.066 | 0.010 U | 0.050 | 0.059 | 0.010 U | 0.028 | 0.010 U |
| Nitrate (as N) | mg/L | 1.71 | 2.68 | 2.00 U | 2.00 U | 2.00 U | 1.00 U | 1.04 |
| Nitrite (as N) | mg/L | 0.500 U | 1.14 | 2.00 U | 2.00 U | 0.964 J | 0.538 J | 0.870 J |
| Total organic carbon (TOC) | mg/L | 0.893 J | 0.542 J | 1.15 | 0.591 J | 0.646 J | 1.67 | 1.15 |

Notes:

- J - Estimated concentration
- U - Not detected at the associated reporting limit
- UJ - Not detected; associated reporting limit is estimated

Table 2

**Analytical Results Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Location ID: | MW-87D1 | MW-87D2 | MW-88D1 | MW-88D2 | MW-89D1 | MW-89D2 | MW-90D1 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sample Name: | GW101917WF047 | GW101917WF048 | GW101717WF017 | GW101717WF018 | GW101617WF001 | GW101617WF002 | GW101917WF041 |
| Sample Date: | 10/19/2017 | 10/19/2017 | 10/17/2017 | 10/17/2017 | 10/16/2017 | 10/16/2017 | 10/19/2017 |

| Parameters | Unit | | | | | | | |
|--|------|---------|---------|---------|--------|---------|---------|---------|
| Volatile Organic Compounds | | | | | | | | |
| 1,1,1-Trichloroethane | µg/L | 1.00 U | 20.0 U | 1.00 UJ | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,1,2,2-Tetrachloroethane | µg/L | 0.50 U | 10.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,1,2-Trichloroethane | µg/L | 1.00 U | 20.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,1-Dichloroethane | µg/L | 1.00 U | 20.0 UJ | 0.40 J | 2.25 | 4.86 | 3.69 | 1.00 UJ |
| 1,1-Dichloroethene | µg/L | 1.00 UJ | 20.0 U | 1.00 U | 0.90 J | 7.61 | 1.00 U | 1.00 U |
| 1,2-Dichloroethane | µg/L | 1.00 U | 20.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,2-Dichloropropane | µg/L | 1.00 U | 20.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 2-Butanone (Methyl ethyl ketone) (MEK) | µg/L | 2.00 U | 40.0 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| 2-Hexanone | µg/L | 2.00 U | 40.0 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 2.00 U | 40.0 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Acetone | µg/L | 6.88 J | 200 U | 6.93 J | 9.17 J | 8.21 J | 7.38 J | 6.22 J |
| Benzene | µg/L | 1.00 U | 20.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Bromodichloromethane | µg/L | 0.50 U | 10.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Bromoform | µg/L | 1.00 U | 20.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Bromomethane (Methyl bromide) | µg/L | 2.00 U | 40.0 U | 2.00 U | 2.00 U | 1.74 J | 2.00 U | 2.00 U |
| Carbon disulfide | µg/L | 2.00 U | 40.0 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Carbon tetrachloride | µg/L | 1.00 U | 20.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Chlorobenzene | µg/L | 1.00 U | 20.0 U | 0.41 J | 1.00 U | 0.31 J | 1.00 U | 1.00 U |
| Chloroethane | µg/L | 2.00 U | 40.0 U | 1.81 J | 2.00 U | 1.29 J | 2.00 U | 0.61 J |
| Chloroform (Trichloromethane) | µg/L | 1.00 U | 20.0 U | 1.00 U | 0.43 J | 0.52 J | 1.00 U | 1.00 U |
| Chloromethane (Methyl chloride) | µg/L | 2.00 U | 40.0 U | 2.00 U | 2.00 U | 2.00 UJ | 2.00 UJ | 2.00 U |
| cis-1,2-Dichloroethene | µg/L | 0.78 J | 32.0 | 1.03 | 1.16 | 6.76 | 3.32 | 2.02 |
| cis-1,3-Dichloropropene | µg/L | 0.50 U | 10.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Dibromochloromethane | µg/L | 0.50 U | 10.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Ethylbenzene | µg/L | 1.00 U | 20.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Methylene chloride | µg/L | 2.00 U | 40.0 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Styrene | µg/L | 1.00 U | 20.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Tetrachloroethene | µg/L | 48.5 | 909 | 11.4 | 17.1 | 16.8 | 9.99 | 17.1 |
| Toluene | µg/L | 1.00 U | 20.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| trans-1,2-Dichloroethene | µg/L | 1.00 U | 20.0 UJ | 1.00 UJ | 1.00 U | 1.00 U | 1.00 U | 1.00 UJ |
| trans-1,3-Dichloropropene | µg/L | 0.50 U | 10.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Trichloroethene | µg/L | 4.31 | 165 | 5.41 | 15.5 | 13.6 | 6.49 | 5.83 |
| Vinyl chloride | µg/L | 1.00 U | 20.0 U | 1.44 | 1.00 | 3.75 | 1.00 U | 0.58 J |
| Xylenes (total) | µg/L | 1.00 U | 20.0 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |

Table 2

**Analytical Results Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Location ID: | MW-87D1 | MW-87D2 | MW-88D1 | MW-88D2 | MW-89D1 | MW-89D2 | MW-90D1 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sample Name: | GW101917WF047 | GW101917WF048 | GW101717WF017 | GW101717WF018 | GW101617WF001 | GW101617WF002 | GW101917WF041 |
| Sample Date: | 10/19/2017 | 10/19/2017 | 10/17/2017 | 10/17/2017 | 10/16/2017 | 10/16/2017 | 10/19/2017 |

| Parameters | Unit | MW-87D1 | MW-87D2 | MW-88D1 | MW-88D2 | MW-89D1 | MW-89D2 | MW-90D1 |
|----------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| General Chemistry | | | | | | | | |
| Ammonia-N | mg/L | 0.06 | 0.22 | 0.15 | 1.18 | 0.27 | 0.12 | -- |
| Phosphorus | mg/L | 0.096 | 0.095 | 0.021 | 0.113 | 0.047 | 0.105 | -- |
| Nitrate (as N) | mg/L | 1.49 U | 4.36 | 1.00 U | 1.00 U | 5.14 | 1.12 | -- |
| Nitrite (as N) | mg/L | 0.500 U | 0.500 U | 1.00 U | 1.31 | 1.05 J | 0.522 J | -- |
| Total organic carbon (TOC) | mg/L | 0.553 J | 0.526 J | 0.736 J | 1.71 | 2.90 | 3.47 | -- |

Notes:

- J - Estimated concentration
- U - Not detected at the associated reporting limit
- UJ - Not detected; associated reporting limit is estimated

Table 2

**Analytical Results Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| | Location ID: | MW-90D2 | MW-92D1 | MW-92D2 | MW-93D1 | MW-93D2 |
|--|--------------|---------------|---------------|---------------|---------------|---------------|
| | Sample Name: | GW101917WF042 | GW101817WF033 | GW101817WF032 | GW101817WF030 | GW101817WF029 |
| | Sample Date: | 10/19/2017 | 10/18/2017 | 10/18/2017 | 10/18/2017 | 10/18/2017 |
| Parameters | Unit | | | | | |
| Volatile Organic Compounds | | | | | | |
| 1,1,1-Trichloroethane | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,1,2,2-Tetrachloroethane | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,1,2-Trichloroethane | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,1-Dichloroethane | µg/L | 0.47 J | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,1-Dichloroethene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,2-Dichloroethane | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 1,2-Dichloropropane | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| 2-Butanone (Methyl ethyl ketone) (MEK) | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| 2-Hexanone | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Acetone | µg/L | 6.86 J | 6.95 J | 9.36 J | 8.55 J | 21.8 |
| Benzene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Bromodichloromethane | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Bromoform | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Bromomethane (Methyl bromide) | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Carbon disulfide | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Carbon tetrachloride | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Chlorobenzene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Chloroethane | µg/L | 2.00 U | 0.76 J | 2.00 U | 2.00 U | 2.00 U |
| Chloroform (Trichloromethane) | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Chloromethane (Methyl chloride) | µg/L | 2.00 U | 2.00 UJ | 2.00 UJ | 2.00 UJ | 2.00 UJ |
| cis-1,2-Dichloroethene | µg/L | 2.84 | 4.07 | 0.97 J | 1.00 U | 1.00 U |
| cis-1,3-Dichloropropene | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Dibromochloromethane | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Ethylbenzene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Methylene chloride | µg/L | 2.00 U | 2.00 U | 2.00 U | 2.00 U | 2.00 U |
| Styrene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| Tetrachloroethene | µg/L | 11.6 | 2.41 | 18.2 | 1.38 | 12.5 |
| Toluene | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| trans-1,2-Dichloroethene | µg/L | 1.00 UJ | 1.00 U | 1.00 U | 1.00 U | 1.00 U |
| trans-1,3-Dichloropropene | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Trichloroethene | µg/L | 6.57 | 6.81 | 2.42 | 0.52 J | 1.16 |
| Vinyl chloride | µg/L | 1.00 U | 24.4 | 1.00 U | 1.00 U | 1.50 |
| Xylenes (total) | µg/L | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U |

Table 2

**Analytical Results Summary
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| | | | | | |
|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Location ID: | MW-90D2 | MW-92D1 | MW-92D2 | MW-93D1 | MW-93D2 |
| Sample Name: | GW101917WF042 | GW101817WF033 | GW101817WF032 | GW101817WF030 | GW101817WF029 |
| Sample Date: | 10/19/2017 | 10/18/2017 | 10/18/2017 | 10/18/2017 | 10/18/2017 |

| Parameters | Unit | | | | | |
|----------------------------|-------------|----|---------|--------|---------|---------|
| General Chemistry | | | | | | |
| Ammonia-N | mg/L | -- | 0.56 | 0.49 | 0.57 | 0.74 |
| Phosphorus | mg/L | -- | 0.142 | 0.043 | 0.052 | 0.038 |
| Nitrate (as N) | mg/L | -- | 1.00 U | 1.00 U | 1.00 U | 0.500 U |
| Nitrite (as N) | mg/L | -- | 0.534 J | 1.00 U | 1.00 U | 0.500 U |
| Total organic carbon (TOC) | mg/L | -- | 15.8 | 1.34 | 0.685 J | 1.69 |

Notes:

J - Estimated concentration

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

Table 3

**Analytical Methods and Holding Time Criteria
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Parameter | Method | Matrix | Holding Time | |
|----------------------------|--------------------------|--------|---------------------------------------|---|
| | | | Collection to Extraction (Days) | Collection or Extraction to Analysis (Days) |
| TCL VOC | SW-846 8260 ¹ | Water | - | 14 |
| Ammonia | E350.1 ³ | Water | - | 28 |
| Phosphorous | SM 4500P ² | Water | - | 28 |
| Nitrate, Nitrite | E353.2 ³ | Water | - | 48 hr. |
| Total Organic Carbon (TOC) | 415.1 ³ | Water | - | 28 |

Notes:

- ¹ - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
² - "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992, with subsequent revisions
³ - "Methods for Chemical Analysis of Water and Wastes", USEPA-600/4-79-020, March 1983 with subsequent revisions

TCL - Target Compound List
VOC - Volatile Organic Compounds
- - Not applicable

Table 4

**Qualified Sample Results Due to Outlying Continuing Calibration Results
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Parameter | Analyte | Calibration Date (mm/dd/yyyy) | RRF | %D | Associated Sample ID | Qualified Result | Units |
|---------------|--------------------------|----------------------------------|-----|------|----------------------|------------------|-------|
| VOCs | 1,1,1-Trichloroethane | 10/24/2017 | - | 43.8 | GW101717WF013 | 50.0 UJ | µg/L |
| | | | | | GW101717WF014 | 1.00 UJ | µg/L |
| | | | | | GW101717WF017 | 1.00 UJ | µg/L |
| | | | | | GW101717WF021 | 1.00 UJ | µg/L |
| | | | | | GW101717WF022 | 1.00 UJ | µg/L |
| | | | | | GW101717WF023 | 1.00 UJ | µg/L |
| | | | | | GW101717WF024 | 1.00 UJ | µg/L |
| VOCs | trans-1,2-Dichloroethene | 10/24/2017 | - | 26.6 | GW101717WF013 | 50.0 UJ | µg/L |
| | | | | | GW101717WF014 | 1.00 UJ | µg/L |
| | | | | | GW101717WF017 | 1.00 UJ | µg/L |
| | | | | | GW101717WF021 | 1.00 UJ | µg/L |
| | | | | | GW101717WF022 | 1.00 UJ | µg/L |
| | | | | | GW101717WF023 | 1.00 UJ | µg/L |
| | | | | | GW101717WF024 | 1.00 UJ | µg/L |
| VOCs | 1,1-Dichloroethene | 10/26/2017 | - | 30.2 | GW101717WF012 | 52.0 J | µg/L |
| | | | | | GW101917WF046 | 1.00 UJ | µg/L |
| | | | | | GW101917WF047 | 1.00 UJ | µg/L |
| VOCs | 1,1-Dichloroethene | 10/25/2017 | - | 39.8 | GW101817WF028 | 1.00 UJ | µg/L |
| VOCs | 1,1-Dichloroethane | 10/25/2017 | - | 36.9 | GW101917WF037 | 1.00 UJ | µg/L |
| | | | | | GW101917WF038 | 5.00 UJ | µg/L |
| | | | | | GW101917WF039 | 1.00 UJ | µg/L |
| | | | | | GW101917WF040 | 1.00 UJ | µg/L |
| | | | | | GW101917WF041 | 1.00 UJ | µg/L |
| | | | | | GW101917WF042 | 0.47 J | µg/L |
| | | | | | GW101917WF043 | 0.37 J | µg/L |
| | | | | | GW101917WF044 | 5.00 UJ | µg/L |
| | | | | | GW101917WF045 | 5.00 UJ | µg/L |
| GW101917WF048 | 20.0 UJ | µg/L | | | | | |

Table 4

**Qualified Sample Results Due to Outlying Continuing Calibration Results
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Parameter | Analyte | Calibration Date (mm/dd/yyyy) | RRF | %D | Associated Sample ID | Qualified Result | Units |
|-----------|--------------------------|----------------------------------|-----|---------------|----------------------|------------------|-------|
| VOCs | trans-1,2-Dichloroethene | 10/25/2017 | - | 41.6 | GW101917WF037 | 1.00 UJ | µg/L |
| | | | | | GW101917WF038 | 5.00 UJ | µg/L |
| | | | | | GW101917WF039 | 1.00 UJ | µg/L |
| | | | | | GW101917WF040 | 1.00 UJ | µg/L |
| | | | | | GW101917WF041 | 1.00 UJ | µg/L |
| | | | | | GW101917WF042 | 1.00 UJ | µg/L |
| | | | | | GW101917WF043 | 1.00 UJ | µg/L |
| | | | | | GW101917WF044 | 5.00 UJ | µg/L |
| | | | | | GW101917WF045 | 5.00 UJ | µg/L |
| | | | | GW101917WF048 | 20.0 UJ | µg/L | |
| VOCs | Carbon tetrachloride | 11/6/2017 | - | 29.9 | GW110117WF054 | 1.00 UJ | µg/L |
| | | | | | GW110117WF055 | 1.00 UJ | µg/L |
| | | | | | GW110117WF056 | 1.00 UJ | µg/L |
| | | | | | GW110117WF057 | 1.00 UJ | µg/L |

Notes:

- - Not applicable
- %D - Percent difference
- RRF - Relative Response Factor
- J - Estimated concentration
- UJ - Not detected; associated reporting limit is estimated
- VOCs - Volatile Organic Compounds

Table 5

**Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Parameter | Analyte | Analysis Date (mm/dd/yyyy) | Blank Result * | Sample ID | Original Result | Qualified Result | Units |
|-------------------|----------------|---------------------------------------|-----------------------|------------------|------------------------|-------------------------|--------------|
| General Chemistry | Nitrite (as N) | 10/18/2017 | 0.805 J | GW101717WF013 | 0.977 J | 1.00 U | mg/L |
| | | | | GW101717WF016 | 0.542 J | 1.00 U | mg/L |
| | | | | GW101717WF023 | 0.760 J | 1.00 U | mg/L |

Notes:

- * - Blank result adjusted for sample factors where applicable
- U - Not detected at the associated reporting limit
- J - Estimated concentration

Table 6

**Qualified Sample Results Due to Outlying LCS/LCSD Results
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Parameter | Analyte | LCS Date (mm/dd/yyyy) | LCS % Recovery | LCSD % Recovery | RPD (percent) | Control Limits | | Associated Sample ID | Qualified Result | Units |
|---------------|---------------------------------|-----------------------------|-------------------|--------------------|------------------|----------------|-----|----------------------|---------------------|-------|
| | | | | | | % Recovery | RPD | | | |
| VOCs | Chloromethane (Methyl chloride) | 10/21/2017 | 69 | 65 | 7 | 70 - 130 | 20 | GW101617WF001 | 2.00 UJ | µg/L |
| | | | | | | | | GW101617WF002 | 2.00 UJ | µg/L |
| | | | | | | | | GW101617WF003 | 2.00 UJ | µg/L |
| | | | | | | | | GW101617WF004 | 2.00 UJ | µg/L |
| | | | | | | | | GW101617WF005 | 2.00 UJ | µg/L |
| | | | | | | | | GW101617WF006 | 2.00 UJ | µg/L |
| | | | | | | | | GW101617WF007 | 2.00 UJ | µg/L |
| | | | | | | | | GW101617WF008 | 2.00 UJ | µg/L |
| | | | | | | | | GW101617WF009 | 2.00 UJ | µg/L |
| | | | | | | | | GW101617WF010 | 2.00 UJ | µg/L |
| VOCs | 1,1-Dichloroethane | 10/24/2017 | 169 | 144 | 16 | 70 - 130 | 20 | GW101717WF017 | 0.40 J | µg/L |
| | | | | | | | | GW101717WF022 | 0.35 J | µg/L |
| VOCs | 1,1-Dichloroethene | 10/26/2017 | 135 | 97 | 33 | 70 - 130 | 20 | GW101717WF017 | 52.0 J | µg/L |
| VOCs | Chloromethane (Methyl chloride) | 10/24/2017 | 60 | 61 | 2 | 70 - 130 | 20 | GW101817WF025 | 2.00 UJ | µg/L |
| | | | | | | | | GW101817WF026 | 2.00 UJ | µg/L |
| | | | | | | | | GW101817WF027 | 2.00 UJ | µg/L |
| | | | | | | | | GW101817WF029 | 2.00 UJ | µg/L |
| | | | | | | | | GW101817WF030 | 2.00 UJ | µg/L |
| | | | | | | | | GW101817WF031 | 10.0 UJ | µg/L |
| | | | | | | | | GW101817WF032 | 2.00 UJ | µg/L |
| | | | | | | | | GW101817WF033 | 2.00 UJ | µg/L |
| GW101817WF035 | 2.00 UJ | µg/L | | | | | | | | |
| VOCs | 1,1-Dichloroethane | 10/25/2017 | 137 | 128 | 7 | 70 - 130 | 20 | GW101917WF042 | 0.47 J | µg/L |
| | | | | | | | | GW101917WF043 | 0.37 J | µg/L |

Notes:

- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- RPD - Relative Percent Difference
- J - Estimated concentration
- UJ - Not detected; associated reporting limit is estimated
- VOCs - Volatile Organic Compounds

Table 7

**Qualified Sample Results Due to Outlying MS/MSD Results
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Parameter | Sample ID | Analyte | MS % Recovery | MSD % Recovery | RPD (percent) | Control Limits | | Qualified Result | Units |
|-----------|---------------|---------------------------------|------------------|-------------------|------------------|----------------|-----|---------------------|-------|
| | | | | | | % Recovery | RPD | | |
| VOCs | GW101717WF012 | Chloromethane (Methyl chloride) | 59 | 63 | 6 | 70 - 130 | 20 | 100 UJ | µg/L |
| VOCs | GW101817WF031 | Chloromethane (Methyl chloride) | 60 | 64 | 7 | 70 - 130 | 20 | 10.0 UJ | µg/L |
| VOCs | GW101917WF038 | Chloromethane (Methyl chloride) | 65 | 61 | 7 | 70 - 130 | 20 | 10.0 UJ | µg/L |

Notes:

- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- RPD - Relative Percent Difference
- VOCs - Volatile Organic Compounds
- UJ - Not detected; associated reporting limit is estimated

Table 8

**Qualified Sample Data Due to Analyte Concentrations in the Trip Blanks
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Parameter | Blank Date (mm/dd/yyyy) | Analyte | Blank Result | Associated Sample ID | Original Result | Qualified Result | Units |
|-----------|----------------------------|---------|-----------------|----------------------|--------------------|---------------------|-------|
| VOCs | 10/27/2017 | Acetone | 1.32 J | GW102017WF049 | 5.88 J | 10.0 U | µg/L |
| | | | | GW102017WF051 | 3.96 J | 20.0 U | µg/L |
| | | | | GW102017WF052 | 6.68 J | 20.0 U | µg/L |
| VOCs | 11/06/2017 | Acetone | 2.01 J | GW110117WF054 | 15.8 J | 10.0 U | µg/L |
| | | | | GW110117WF056 | 15.5 J | 10.0 U | µg/L |
| | | | | GW110117WF057 | 13.0 J | 10.0 U | µg/L |

Notes:

- U - Not detected at the associated reporting limit
- J - Estimated concentration
- VOCs - Volatile Organic Compounds

Table 9

**Qualified Sample Data Due to Analyte Concentrations in the Rinse Blanks
Semiannual Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
October-November 2017**

| Parameter | Rinse Blank ID | Blank Date (dd/mm/yyyy) | Analyte | Blank Result | Associated Sample ID | Original Result | Qualified Result | Units |
|-------------------|----------------|----------------------------|----------------|-----------------|----------------------|--------------------|---------------------|-------|
| General Chemistry | GW101817WF036 | 10/18/2017 | Nitrate (as N) | 3.21 | GW101817WF027 | 2.60 | 2.60 U | mg/L |
| | | | | | GW101817WF028 | 2.22 | 2.22 U | mg/L |
| | | | | | GW101917WF046 | 1.25 | 1.25 U | mg/L |
| | | | | | GW101917WF047 | 1.49 | 1.49 U | mg/L |
| General Chemistry | GW101817WF036 | 10/18/2017 | Nitrite (as N) | 0.437 | GW101817WF035 | 0.433 | 1.00 U | mg/L |
| | | | | | GW101917WF043 | 0.219 | 0.500 U | mg/L |

Notes:

U - Not detected at the associated reporting limit