



January 15, 2020

Reference No. 006883

Ms. Jaclyn Kondrk
Emergency Remedial Response Division
United States Environmental Protection Agency Region II
290 Broadway, 20th Floor
New York, New York
10007 1866

Dear Ms. Kondrk:

**Re: Semiannual Report – 2nd Half 2019 (July 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 Semiannual Progress Report covering July through December 2019 for the Hooker/Ruco Site in Hicksville, New York, on behalf of Glenn Springs Holdings, Inc. (GSH). This Report covers OU 1, OU 2, and OU 3.

Submittals During Reporting Period

The following were submitted during the period July through December 2019:

- The Semiannual Progress Report for the time period January through June 2019 was submitted to the United States Environmental Protection Agency (USEPA) on July 10, 2019.

Operable Unit 1 (On-Site Soil)

All work has been successfully completed pursuant to USEPA letter dated September 28, 2007. OU 1 is closed.

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

All work has been successfully completed pursuant to USEPA letter dated March 12, 1993. OU 2 is closed.

Operable Unit 3 (Off Site Groundwater)

A listing of the OU 3 operation and maintenance (O&M) activities performed for this reporting period is provided in Table 1. Additional details for the primary activities are provided in the following sections.

It is noted that the selected remedy for the vinyl chloride (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 tetrachloroethylene (PCE) and trichloroethylene (TCE) from the Northrop, Naval Weapons Industrial Reserve Plant (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 (No Longer Required)

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 2.0 and 3.9 micrograms per liter ($\mu\text{g/L}$) from December 2016 to May 2018 with the most recent concentration from August 2019 being 1.3 $\mu\text{g/L}$. This further supports that treatment of VCM by the supplemental system is no longer needed.

Biosparge System

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

Sampler insertion for the 2nd semi-annual 2020 biosparge system performance monitoring event started on September 29, 2019. For this monitoring event, general chemistry (total organic carbon (TOC), nitrate, nitrite, ammonia, and phosphorus) were analyzed in accordance with the frequency change to annual approved by USEPA on October 9, 2018.

All samplers were inserted in September and retrieved in October. Additionally, the super sleeve samplers for MW-90D1, MW-90D2, and MW-93D2 were ripped when retrieved. The super sleeves are used to collect for samples for general chemistry (total organic carbon (TOC), nitrate, nitrite, ammonia, and phosphorus) analysis. These data are not necessary to evaluate the performance of the biosparge system. Therefore, super sleeves were not reinstalled for analysis of these parameters.

A Quality Assurance/Quality Control (QA/QC) review of the October 2019 results is provided in Attachment A. The electronic deliverables were provided electronically to the USEPA on January 14, 2019.

During 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-18D1, and IW-21D1. 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 all nearby monitoring wells are greater than the target level of 2.0 milligrams per liter (mg/L) (as noted in Table 2), 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 9. It is noted that figures for well pairs in which the VCM concentrations have been less than the maximum contaminant level (MCL) of 2 $\mu\text{g/L}$ for at least the last 2 years were not prepared for the First semiannual



2019 report. The wells achieving this goal were MW-61D2, MW-63, MW-72, MW-77, MW-81, MW-83, MW-84, MW-87, MW-76, MW-85S&I, MW-63S&I, MW-73D1&D2, MW-86D1&D2, and MW-90D1&D2, and MW-88D1&D2. Thus, no figures for these well pairs are included in this report. MW-82D1 had a concentration of VCM of 4 µg/L in the first half of 2019; however, a figure was not prepared as this was the first detection since 2015. In the second half of 2019, MW-82D1 had a VCM concentration of 2.1 µg/L, marginally above 2 µg/L. Since the VCM concentration is expected to continue to decrease, a figure is not 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 mg/L in 32 of the 49 monitoring wells measured in October 2019 (see Table 2).
- ii) Groundwater VCM concentrations are non detect, low level, or decreased between the April/May 2019 and October 2019 performance monitoring events in 49 of the 52 monitoring wells for the biosparge system as a result of the microbial biodegradation processes. Minor increases were detected in MW-75D2 (4 to 5 µg/L), MW-76D1 (1 to 7.7 µg/L), and MW-89D1 (0.7J to 2 µg/L).

The wells with lowest DO concentrations are typically 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 2019 DO concentrations in wells MW-66D2 and MW-68D which are above the target level of 2 mg/L and located between the middle fence and Well 3R (see Table 2).

The VCM concentrations upgradient of the north fence continued to decrease from 24 µg/L (October 2017) to 14.7 µg/L (October 2019) in well MW-92D1 and from 1.5 µg /L (October 2017) to non-detect (October 2019) in well MW-93D2. These wells are scheduled to be sampled again in October 2021.

The VCM concentrations along the west edge of the VCM plume between the north fence and the middle fence remained non-detect in wells MW-63 since the April/May 2016 sampling event and MW-86 since the October 2015 sampling event.

The VCM concentrations along the west edge of the VCM plume downgradient of the middle fence essentially remained the same as previous events. VCM was either not detected or detected at a concentration of less than 2.0 µg/L in monitoring wells MW-61, MW-81, MW-83, and MW-87.

The VCM concentrations along the east edge of the VCM plume downgradient of the middle fence essentially remained the same as previous events. VCM was either not detected or detected at a concentration of 2.0 µg/L or less in these monitoring wells (MW-82, MW-84, MW-85, MW-88, and MW-89) except for MW-82D1 where VCM was detected at a concentration of 2.1 µg/L.

The VCM concentrations in monitoring wells located in between the middle fence and Northrop Well 3R (aka GP 3) essentially remained the same as previous events (MW-66, MW-67, and MW-68). VCM was



either not detected (MW-66, MW-67, and MW-68D) or detected at a concentration of 5.2J µg/L in MW-68S. The VCM concentration in MW-68S has continued to decrease from a high of 940 µg/L in 2013 and 42 µg/L in April 2019.

The VCM concentrations in Northrop well MW 3-1, located in close proximity to Northrop Well (south of the sub plume), increased from 14 to 36 µg/L between the last two available sampling events in October 2016 and June 2018, respectively. VCM remained not detected in nearby monitoring wells MW-58 and MW-59. The most recent concentration in Well 3R from August 2019 was 1.3 µg/L.

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

Table 2 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 2, 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, MW-81D2, MW-83D2, MW-86D2, and MW- 87D2)

Similarly, the TCE concentrations have:

- i) Decreased in 22 wells
- ii) Remained relatively constant with random fluctuations in 20 wells
- iii) Increased in one 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 not related to the Hooker/Ruco Site. 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 1,910 to 7,600 µg/L range between November 2014 and April/May 2018. Recent TCE concentrations from April/May 2019 ranged between 319 to 750 µg/L and 237 to 357 µg/L in October 2019. It is believed that these increases in 2013 were 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 9).

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 29.9 µg/L in October 2019 and from 110 µg/L in April 2011 to non-detect in October 2019 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 3. Since the issuance of the 1st Semiannual 2019 Progress Report, air injections could not be injected into wells IW-20D1, IW-20D2, IW-21D2, and IW-15D1. Investigations into these two wells are in progress. Repairs to these wells will not be performed unless DO concentrations decrease in downgradient monitoring wells. 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 obtained during operation of the biosparge system during this reporting period.

Planned 1st Half 2020 Activities

The following activities are planned for 2020:

- i. Continue operation and maintenance of the biosparge system
- ii. Perform the 1st Semi-annual 2020 biosparge system performance monitoring event



Should you have any questions on the above, please do not hesitate to contact the undersigned at 519-340-4313 or email john.pentilchuk@GHD.com.

Sincerely,

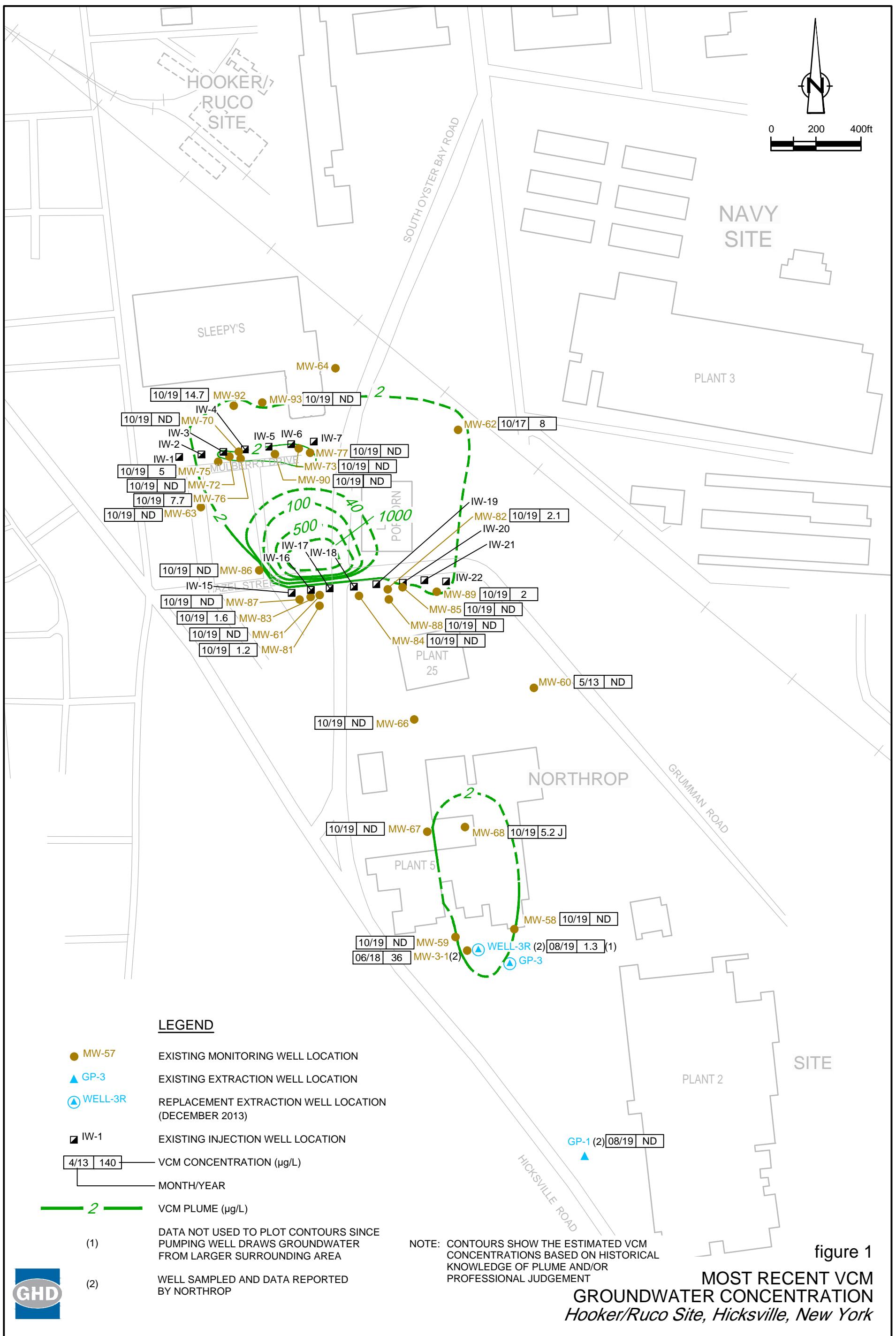
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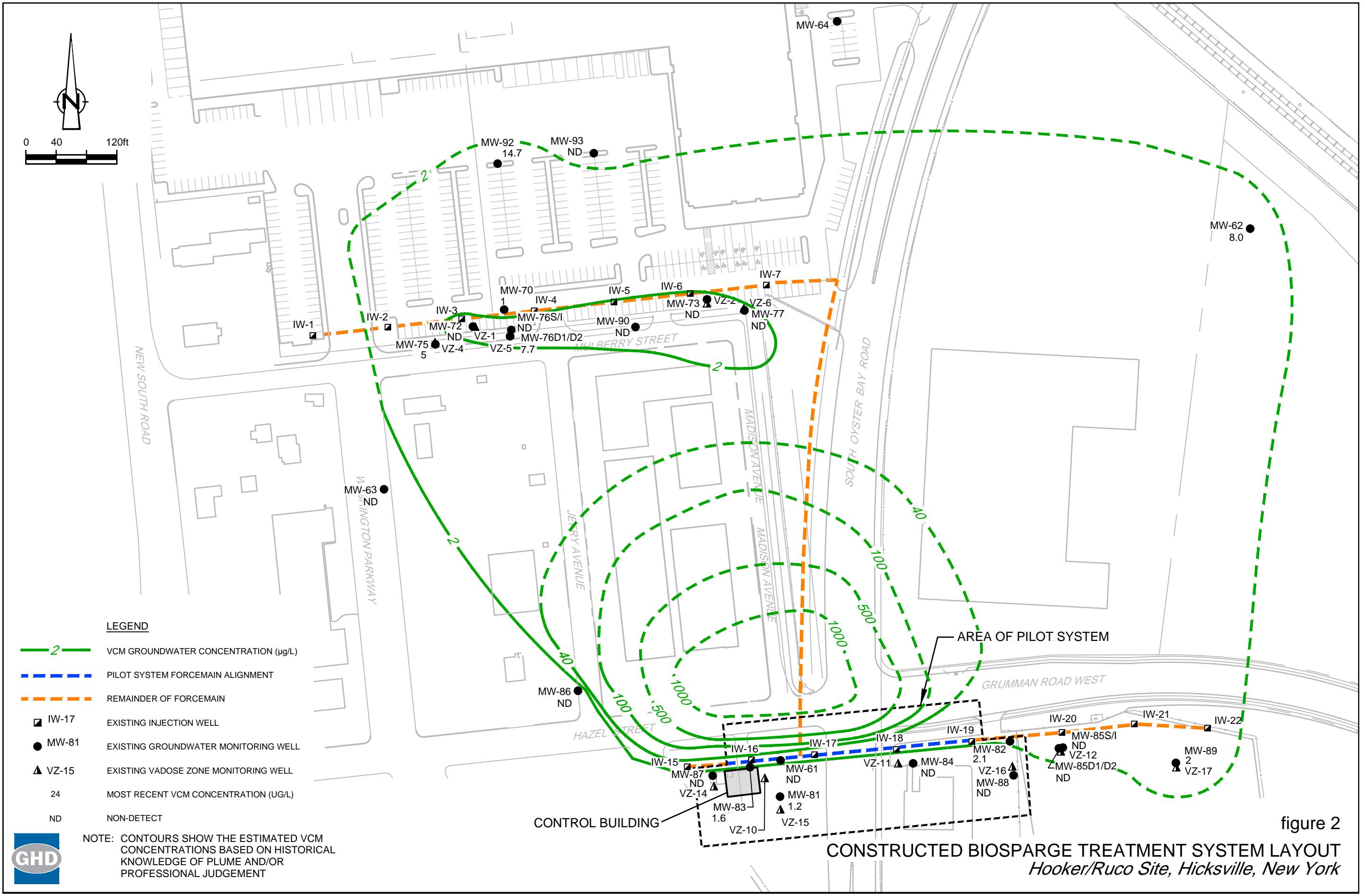
John Pentilchuk

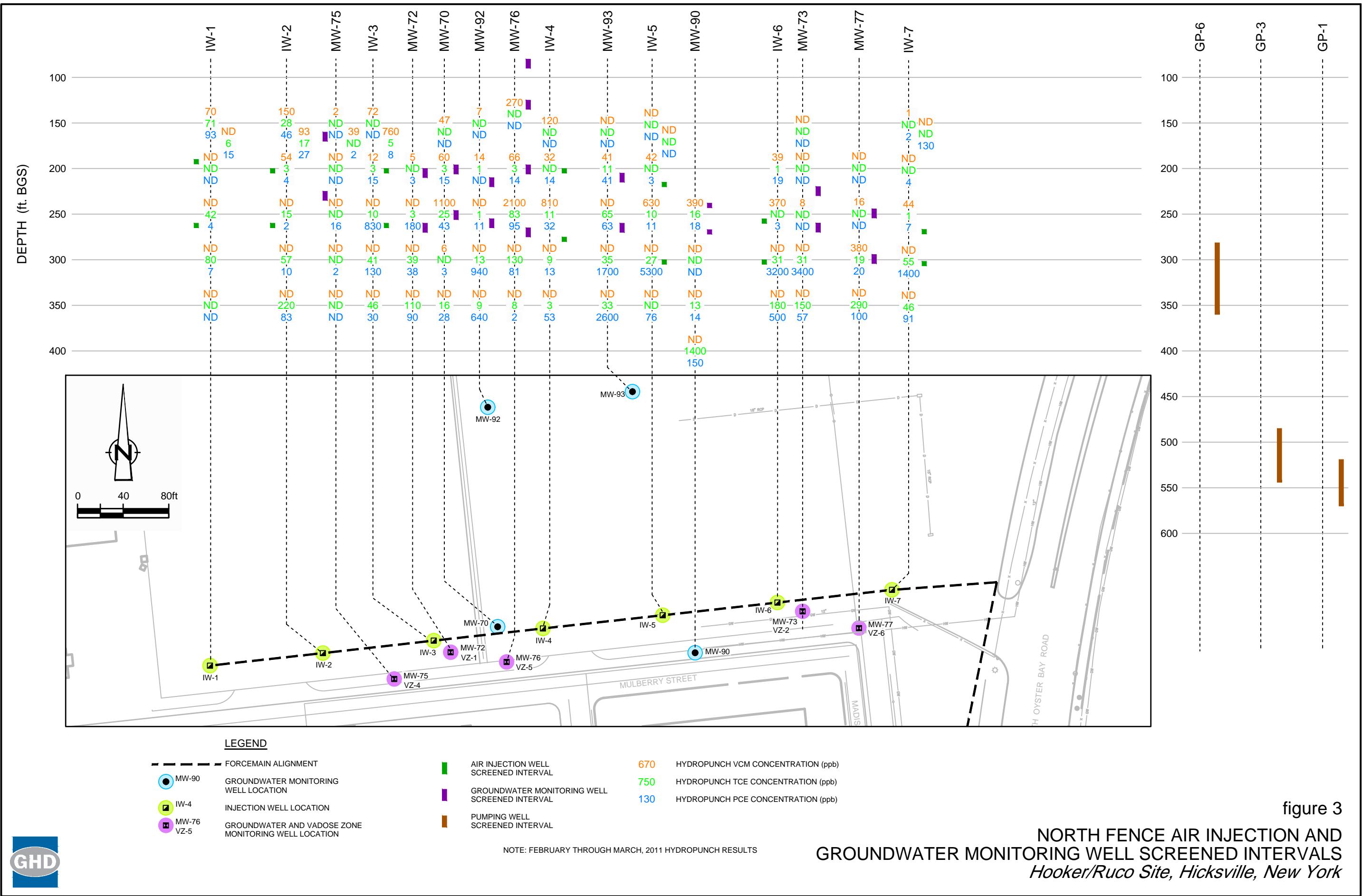
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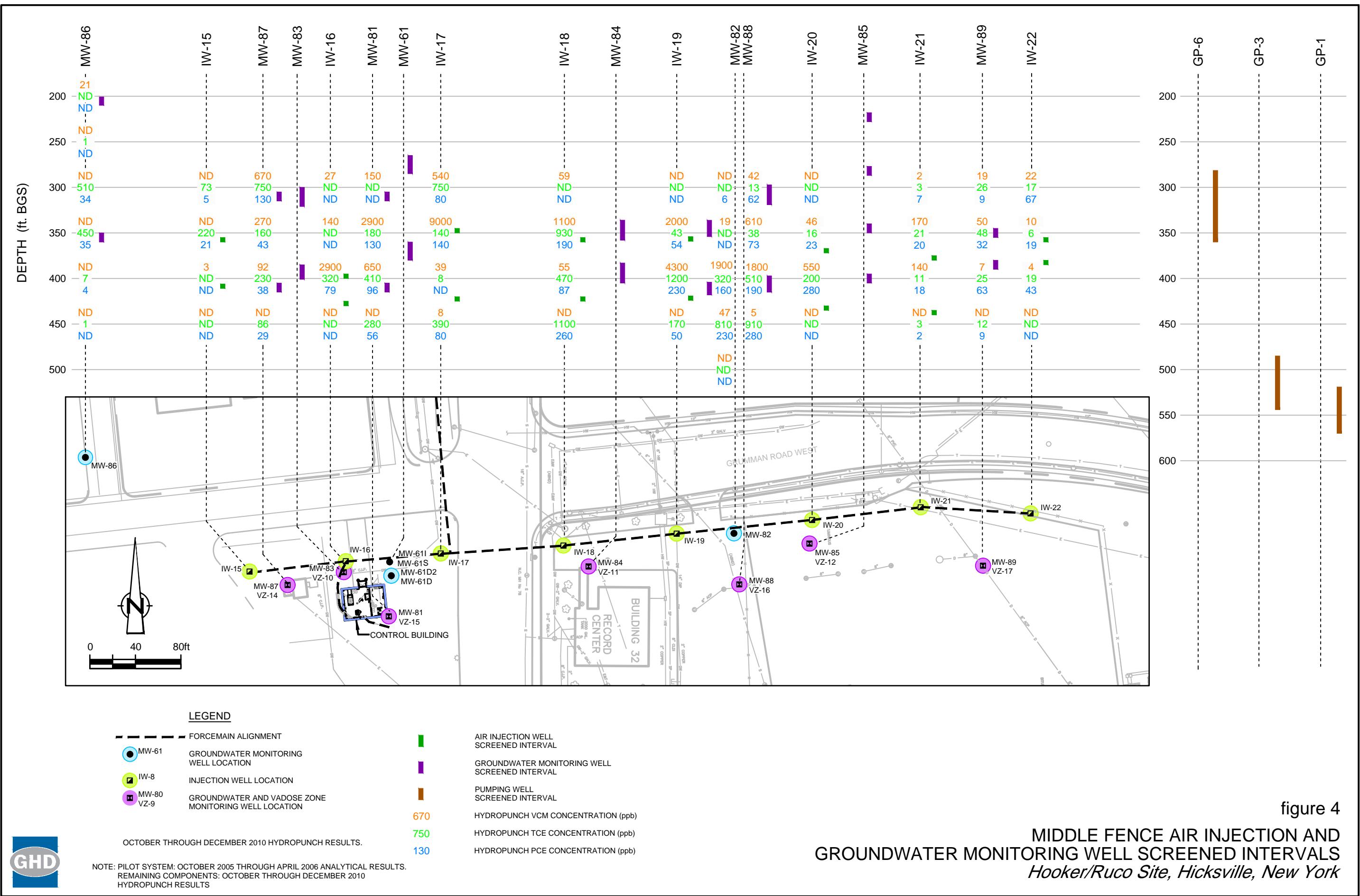
Encl.

cc: P. Mannino (USEPA)
S. Scharf (NYSDEC)
B. Murray (US Navy)
T. Troutman (Covestro)
T. Kelly (Nassau County)
P. Bluestein (GSH)









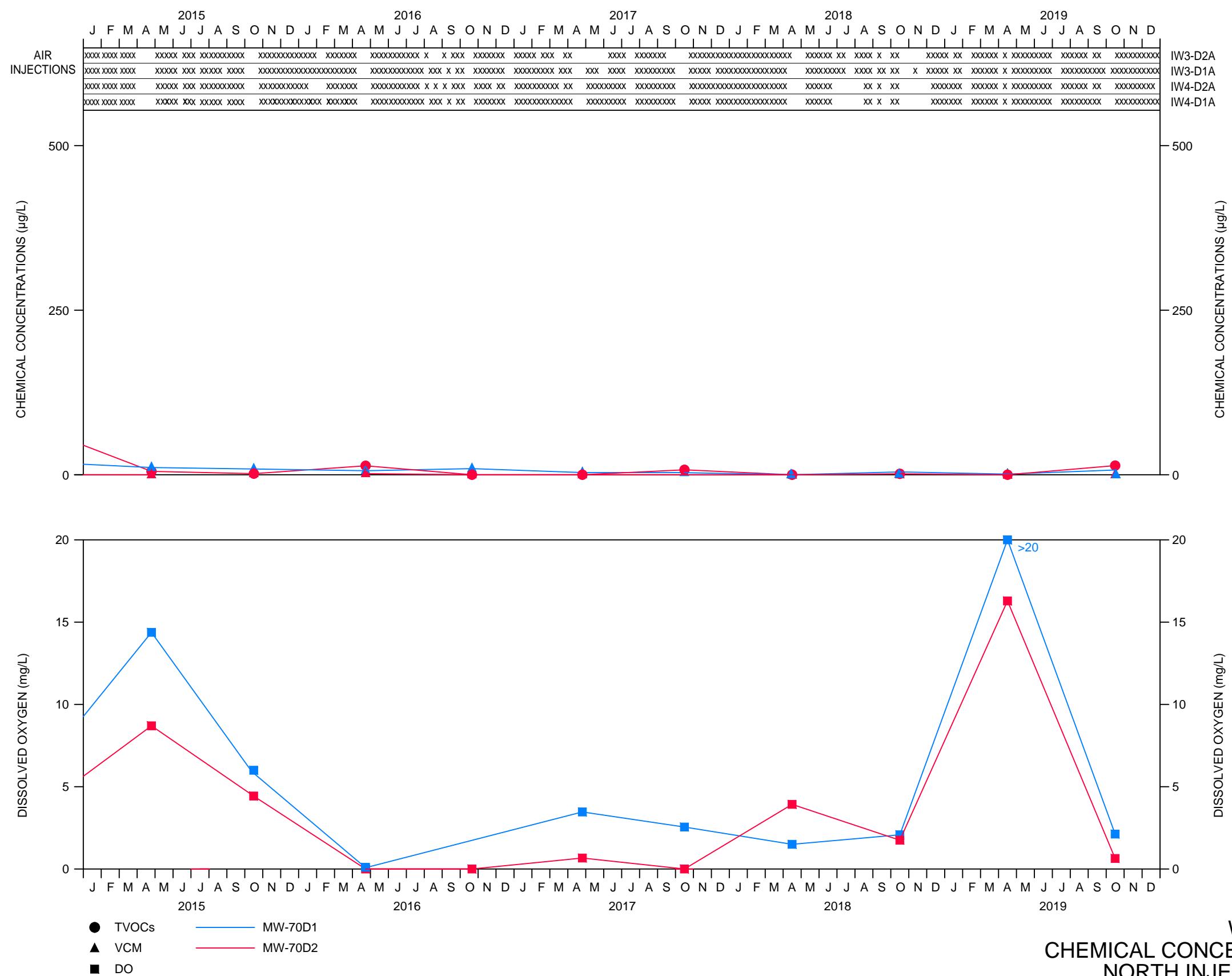


figure 5

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



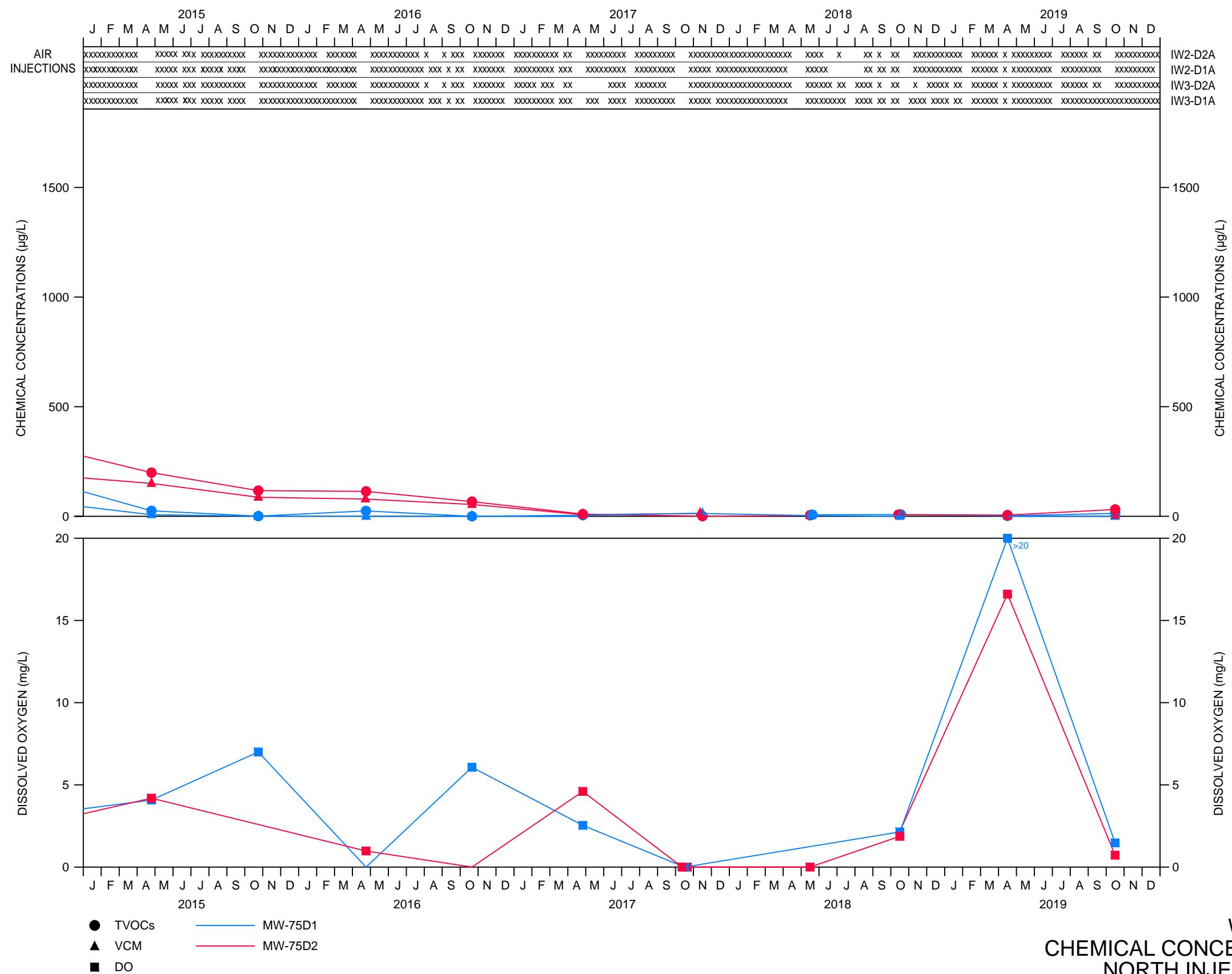
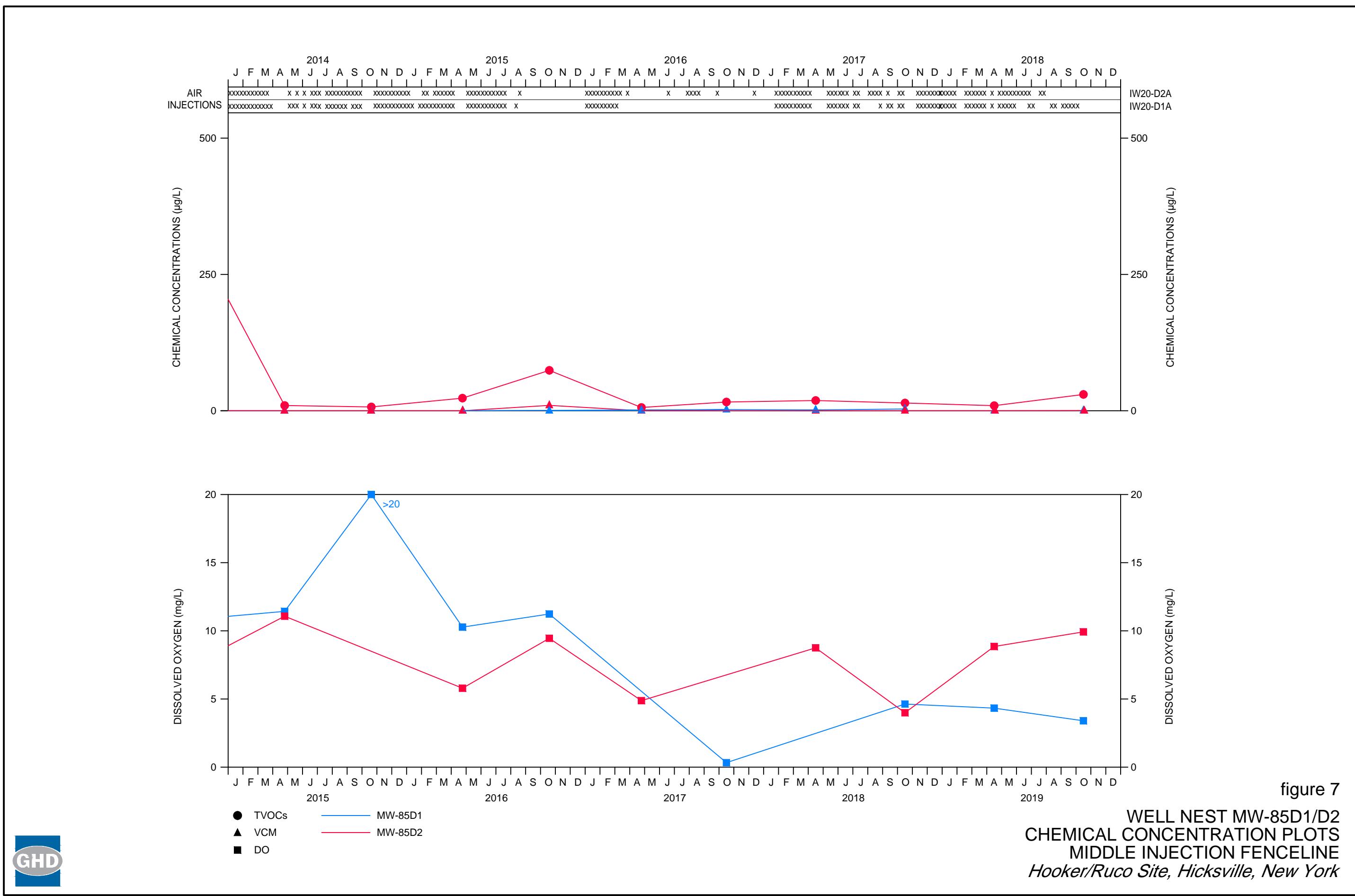
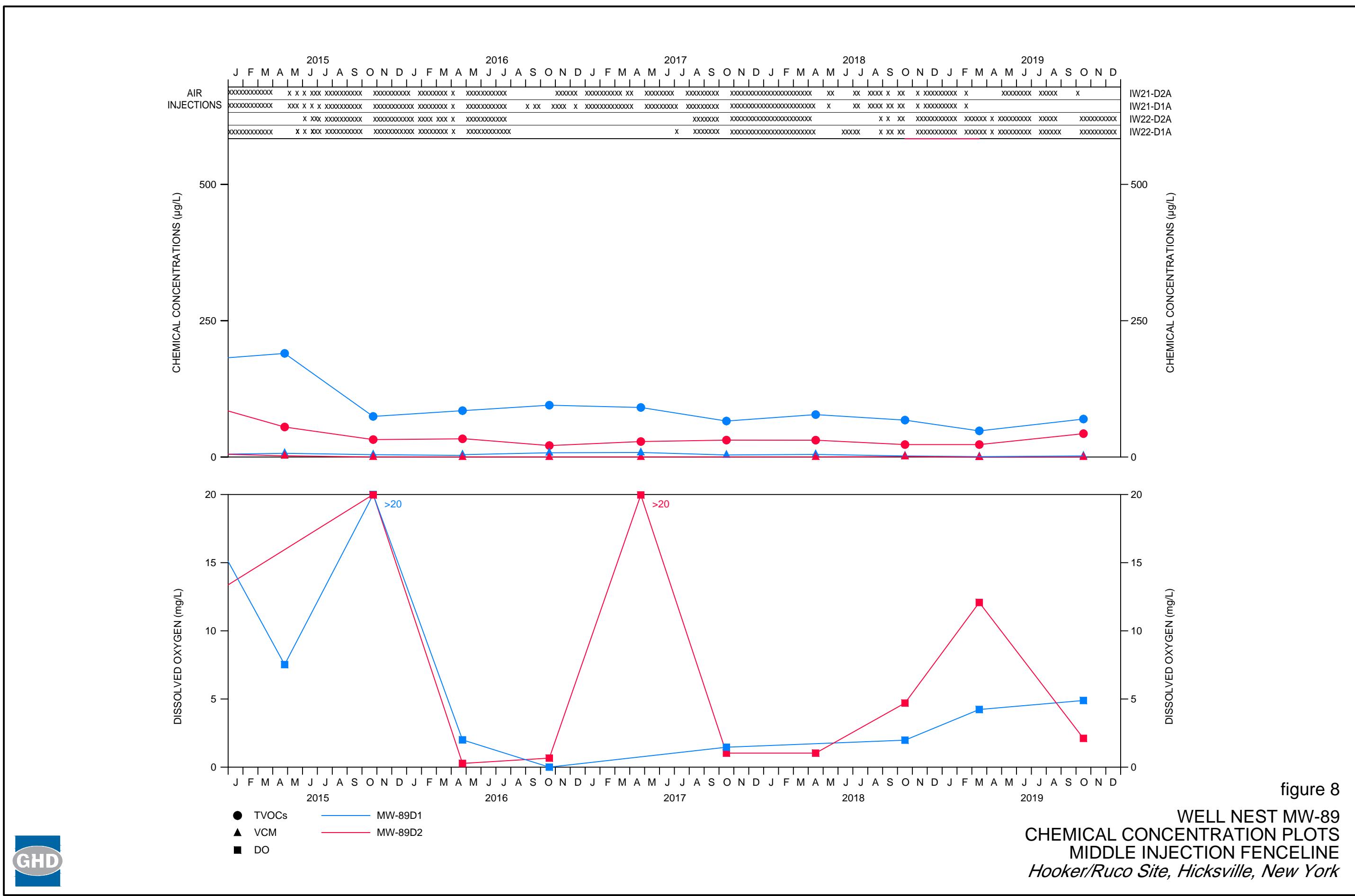


figure 6

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







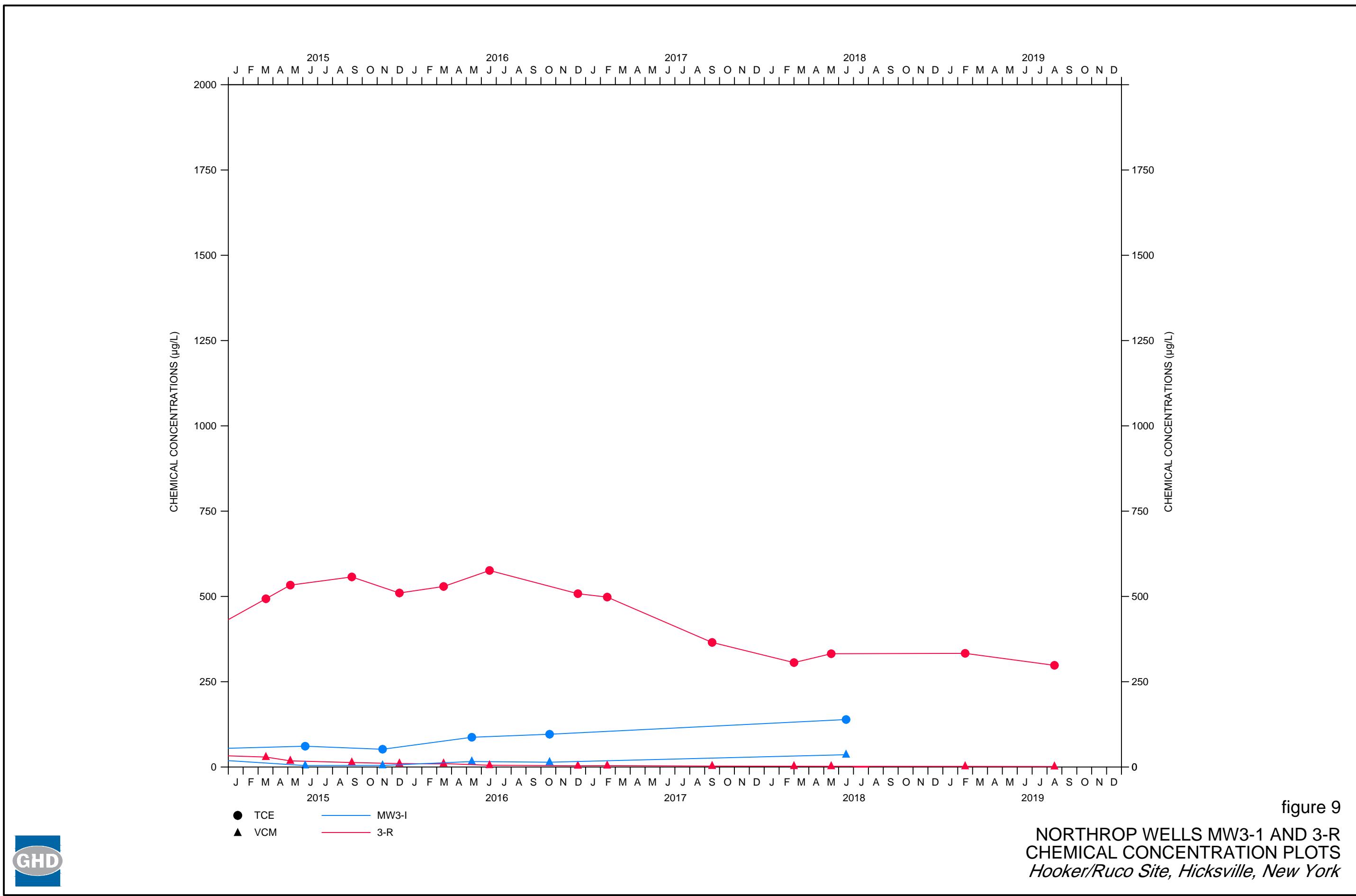


Table 1

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2019 Summary of Biosparge System O Activities
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Date Observed | Description of Issue | Action Taken | Date of Action | Outcome of Action | Notes |
|---------------|--|--|----------------|--|--|
| 1/3/19 | Monthly inspection | Check all vaults and components in building on the checklist | 1/3/19 | No issues, system was off for sampling | |
| 1/8/19 | Vault 6 flooded | pumped out vault | 1/8/19 | water pumped all okay | |
| 2/1/19 | Atlas Copco Compressor maintenance due | Completed | 2/1/19 | Completed | |
| 2/6/19 | Monthly inspection | Check all vaults and components in building on the checklist | 2/6/19 | No issues | |
| 2/8/19 | Sampler stuck in MW-63 | Fished sampler out of well | 2/8/19 | Successfully retrieved sampler | |
| 2/22/19 | IW-6 not injecting during weekly, noticed leaking water line from air dryer and air filter | inspected vault, break switched off and repaired lines | 2/22/19 | No leaks, and IW-6 is working again. | |
| 3/14/19 | Monthly inspection | Check all vaults and components in building on the checklist | 3/14/19 | Arm of the door broke due to strong winds. Arm was welded back together on 3/15/19 | |
| 4/1/19 | Backflow Prevention test due | Scheduled for 4/22/19 | 4/22/19 | Test passed, due April 2020. | |
| 4/8/19 | Monthly inspection | Check all vaults and components in building on the checklist | 4/26/19 | Tubing from the air compressor and filters are leaking. Re-piped all components with copper pipe. Tested all okay. | |
| 4/26/19 | Check system after first restart after sampling. One of the air filters fitting/valve is still causing a small drip. | Resealed until new valve comes in. Ordered new valve | | Will replace fitting once it is received. | Fixed 5/8/19 |
| 4/29/19 | Check system after restart. IW-6, appears to have lost power. | Will check wells before restart on Friday May 3, 2019 | 5/3/19 | equipment appears to be working, possible pressurized lines | Additional wells to test as per Brendan Shaw - •IW-21 (both), has not been working for 2019 but did at the end of 2018 •IW-17 (INT), has not been working for 2019 but did at the end of 2018 •IW-07 (DEEP), has not been working for a while but it used to early last year •IW-05 (both) |

Table 1

2019 Summary of Biosparge System O Activities
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Date Observed | Description of Issue | Action Taken | Date of Action | Outcome of Action | Notes |
|---------------|---|--|----------------|---|---|
| 5/3/19 | Some of the injection wells will not take any air | Troubleshooting of wells to make sure there isn't flow due to equipment failure | 5/3/19 | equipment appears to be properly working | possible pressurized aquifer |
| 5/8/19 | One of the air filters fitting/valve is still causing a small drip. | Replaced valve on the oil filter | 5/8/19 | Sealed up and working | |
| 5/10/19 | Monthly inspection | Recycle power in IW-6 | 5/8/19 | IW-6 recycled through power, appears to be working | |
| 5/20/19 | select injection wells not taking air each week | bleed any residual air off of the water lines | 5/20/19 | 40 psi was removed | air did not repressurize the lines after they were bled off. |
| 5/31/19 | Troubleshoot IW-6 and IW-18 | checked remotely and manually at the vault for any issues. The flow meter in IW-18 does not appear to have power, the actuator in IW-6 is not getting the 'open' command | 6/4/19 | JVR will be on-site for troubleshooting | |
| 6/4/19 | Troubleshoot IW-6 and IW-18 | checked remotely and manually at the vault for any issues. The flow meter in IW-18 does not appear to have power, the actuator in IW-6 is not getting the 'open' command | 6/4/19 | JVR will be on-site for troubleshooting | Met with JVR on 6/4/19. Removed FCI metere from IW-18i. Replaced IW-6D actuator |
| 6/7/19 | Troubleshoot IW-5 and IW-17 | checked remotely and manually at the vault for any issues. | 6/7/19 | Lines need to be pressurized prior to start up to get IW-5 working. IW-17 not taking air. | |
| 6/14/19 | Flooded vault IW-17 | pumped vault | 6/14/19 | pumped water from vault | |
| 6/20/19 | Troubleshoot IW-20i, IW-20D, IW-21i and IW-21D | tested the four actuators | 6/20/19 | IW-20i - the actuator does have power but I not turning on command. This well will get flow if we get it open. IW-20D - Seems to be running okay, it needs to build up pressure. IW-21i - we can not get any air to push down the well. IW-21D Seems to be working ok. | Fixed for weekend run. |
| 7/3/19 | No remote connection to the system | Visited site immediately. | 7/3/19 | Multiple issues were identified: phone lines down, alarm company could not connect, atlas compressor alarms, FCI alarm, air dryer over heating | Shut system down for the weekend, revisited on 7/8/19 to reinspect |
| 7/8/19 | No remote connection to the system | visited site | 7/8/19 | Cleared out FCI meter, phone lines were not working verizon needs to upgrade lines | 7/15/19 - verizon upgrade lines and fixed all connections |
| 7/23/19 | Air dryer was overheating | visited site | 7/23/19 | On site and repaired the air dryer. | Air dryer temp should be around 35 |

Table 1

2019 Summary of Biosparge System O Activities
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Date Observed | Description of Issue | Action Taken | Date of Action | Outcome of Action | Notes |
|---------------|--|--|----------------|--|---|
| | | | | | |
| 7/26/19 | Flooded vault 16 | pumped vault | 7/26/19 | pumped water from vault | |
| 8/20/19 | Air Dryer leaking | visited the site to inspect | 8/20/19 | Air dryer is operating properly, the water is condensation from the recent hot weather | |
| 9/2/19 | Troubleshooting actuators after weekend run | tested each IW to see if working properly | 9/2/19 | Need to reschedule with additional crew to physically check | Fixed for weekend run, additional troubleshooting scheduled for 9/13/19 |
| 9/9/19 | Monthly inspection | Inspection completed | 9/9/19 | need additional troubleshooting | |
| 9/13/19 | Troubleshooting actuators and pressure | assess entire system for air leaks, equipment issues | 9/13/19 | No leaks, reset schedule in different order to try to building pressure. | Fixed for weekend run |
| 9/27/19 | Troubleshooting pressure | assess entire system for leaks, equipment issues | 9/27/19 | schedule with Atlas Copco for an O&M; schdeule with JVR to asses actuator issues in 16, 20, 21, 22 and to reinstall flow meter in 18 | System off for sampling |
| 10/8/19 | Atlas Compressor PM | PM was completed | 10/8/19 | Compressor is working | |
| 10/14/19 | Troubleshooting Actuators | Met with JVR for troubleshooring | 10/14/19 | Additional followup necessary | scheduled for November 7, 2019 |
| 11/6/19 | Vault Repairs - north fence | rewelded two vaults in the north fence parking lot | 11/6/19 | vaults are flat | Vaults IW-6 and IW-8 |
| 11/7/19 | Troubleshooting actuators | troubleshooting with JVR | 11/7/19 | need new acutators | need to schedule replacements with JVR |
| 11/15/19 | Monthly inspection | Inspection completed | 11/15/19 | no additional action items | |
| 12/11/19 | Monthly inspection | Inspection completed | 12/11/19 | no additional action items | |
| 12/30/19 | System did not run completely over the weekend | Inspection completed on January 2, 2020 | 1/2/2020 | The compessor does not appear to be putting out enough pressure. It is running at 100% PRM but only putting out 50 PSI. | Contacted Atlas for them to remote in. |

Table 2

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | 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 | 3.9 J/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 |

Table 2

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|---------------------------------|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| MW-61D2 ⁽¹⁾ (cont'd) | 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) |
| | 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 |
| | 4/19/2018 | 85.4 | 57.1 | 1.0U | NM | NM | NM |
| | 11/12/2018 | 85.2 | 61.6 | 1.0U | NM | NM | NM |
| | 4/26/2019 | 160 | 73 | 1.0U | NM | NM | NM |
| | 10/16/2019 | 25.8 | 23.1 | 1.0U | -31 | 1.60 | 5.00 |
| 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 |
| | 5/8/2018 | 3.29 | 2.39 | 1.0U | 135 | 6.23 | 0.8 |
| | 11/8/2018 | 5.08 | 2.70 | 1.0U | 62 | 4.90 | 0.1 |
| | 4/24/2019 | 7 | 3 | 1.0U | 117 | 15.95 | 0.1 |
| | 10/15/2019 | 6.6 | 2.4 | 1.0U | 283 | 11.36 | 1.5 |
| 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 | 2.0UU | 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 |
| | 5/8/2018 | 2.81 | 1.71 | 1.0U | 184 | 4.62 | 4.59 |
| | 11/8/2018 | 4.51 | 2.47 | 1.0U | 205 | 5.06 | 0.00 |
| | 4/24/2019 | 5 | 3 | 1.0U | 277 | 15.16 | 0.14 |
| | 10/15/2019 | 3.1 | 1.9 | 1.0U | 238 | 16.67 | 1.75 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe^{+2} (mg/L) |
|------------------------|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| 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 |
| | 5/23/2018 | 4.68 | 4.33 | 1.0U | 197 | 4.45 | 1.3 |
| | 5/8/2019 | 6 | 4 | 1.0U | 209 | 26.80 | 0.0 |
| | 10/27/2019 | 2.0 | 1.6 | 1.0U | 101 | 13.30 | 4.1 |
| 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 |
| | 5/23/2018 | 1.76 | 0.78J | 1.0U | 203 | 5.96 | 0.3 |
| | 11/20/2018 | 7.09 | 5.21 | 1.0U | 149 | 13.98 | 0.0 |
| | 5/8/2019 | 3 | 3 | 1.0U | 212 | 16.78 | 0.0 |
| | 10/27/2019 | 3.2 | 2.2 | 1.0U | 124 | 12.40 | 1.5 |
| 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 |
| MW-70D2 ⁽²⁾ | 10/17/2017 | 1.1 | 0.7J | 3.2 | -15 | 2.55 | 0.0 |
| | 4/26/2018 | 1.0U | 1.0U | 1.0U | 62 | 1.50 | >5 |
| | 11/6/2018 | 1.0U | 1.0U | 0.51J | 72 | 2.08 | 1.3 |
| | 4/25/2019 | 1.0U | 1.0U | 1 | 125 | 34.01 | 0.1 |
| | 10/14/2019 | 1.0U | 1.0U | 1.0U | 90 | 1.59 | 3.7 |
| | 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 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe^{+2} (mg/L) |
|---------------------------------|--------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| MW-70D2 ⁽²⁾ (cont'd) | 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 |
| | 4/26/2018 | 1.0U | 1.0U | 1.0U | 154 | 3.93 | 4.9 |
| | 11/6/2018 | 1.0U | 1.0U | 1.0U | 51 | 1.75 | 2.4 |
| | 4/25/2019 | 1.0U | 1.0U | 1.0U | 40 | 16.29 | 0.0 |
| | 11/14/2019 | 1.0U | 1.0U | 1.0U | -28 | 0.64 | 3.1 |
| 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 |
| | 4/26/2018 | 1.0U | 1.0U | 1.0U | 150 | 3.92 | NM |
| | 11/6/2018 | 1.0U | 1.0U | 1.0U | 116 | 2.51 | 0.7 |
| | 4/25/2019 | 1.0U | 1.0U | 1.0U | 12 | 12.04 | 0.0 |
| | 10/14/2019 | 1.0U | 1.0U | 1.0U | 147 | 0.64 | 4.9 |
| 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 |
| | 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 |
| | 4/26/2018 | 57 | 7.03 | 1.0U | 173 | 0.33 | >5 |
| | 11/6/2018 | 74.9 | 9.49 | 1.0U | 33 | 1.97 | 2.01 |
| | 4/25/2019 | 50 | 8 | 1.0U | 85 | 11.79 | 0 |
| | 10/14/2019 | 39.2 | 6.9 | 1.0U | 204 | 4.66 | 2.82 |

Table 2

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe^{+2} (mg/L) |
|------------------------|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| 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 |
| | 4/26/2018 ⁽⁵⁾ | 1.38/1.31 | 1.0U/1.0U | 1.0U/1.0U | NM | NM | NM |
| | 11/6/2018 | 1.25 | 1.0U | 1.0U | 80 | 2.94 | 2.6 |
| | 4/24/2019 | 0.2J | 1.0U | 1.0U | 104 | 11.37 | 0.0 |
| | 10/14/2019 | 2.6 | 1.0U | 1.0U | 187 | 0.87 | 5.0 |
| 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 |
| | 4/26/2018 | 10.9 | 3.22 | 1.0U | NM | NM | NM |
| | 11/6/2018 | 4.46 | 1.67 | 1.0U | 147 | 3.24 | >5 |
| | 4/24/2019 | 0.7J | 0.4J | 1.0U | NM | NM | NM |
| | 10/14/2019 | 2.6 | 1.3 | 1.0U | 65 | 0.87 | 5.0 |
| 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 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe^{+2} (mg/L) |
|---------------------------------|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| MW-75D1 ⁽²⁾ (cont'd) | 11/1/2017 | 3.7 | 3.3 | 1.0U | NS | NS | NS |
| | 5/4/2018 ⁽⁵⁾ | 1.55/1.68 | 1.21/1.0U | 1.0U/1.0U | NM | NM | NM |
| | 11/6/2018 | 1.25 | 1.11 | 1.0U | 35 | 2.14 | 0.7 |
| | 4/25/2019 | 0.9J | 1 | 1.0U | 146 | 23.47 | 0.1 |
| | 10/14/2019 | 1.0U | 1.8 | 1.0U | 77 | 1.47 | 5.0 |
| 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 |
| | 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 |
| | 5/4/2018 | 0.42J | 0.46J | 3.27 | 161 | 0.00 | 3.6 |
| | 11/6/2018 | 1.0U | 0.86J | 4.9 | 89 | 1.87 | 3.6 |
| | 4/25/2019 | 0.8J | 0.6J | 4 | 1 | 16.65 | 0.0 |
| | 10/14/2019 | 1.0U | 1.0U | 5 | -104 | 0.72 | 5.0 |
| MW-76S ⁽²⁾ | 4/6/2011 | 5.0 U | 5.0 U | 2.4 J | -148 | 0.78 | 7.0 |
| | 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 |
| | 11/6/2018 | 1.36 | 0.75J | 1.0U | NM | NM | NM |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe^{+2} (mg/L) |
|------------------------|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| 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 |
| | 4/26/2018 | 0.55J | 0.45J | 1.0U | 32 | 1.11 | >5 |
| | 11/6/2018 | 1.53 | 0.51J | 0.4J | 75 | 1.64 | 1.87 |
| | 4/25/2019 | 0.9J | 0.4J | 1 | -120 | 11.83 | 0.07 |
| | 10/17/2019 | 1.0U | 1.0U | 7.7 | -47 | 0.14 | 5.00 |
| 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 |
| | 4/26/2018 ⁽⁵⁾ | 25.8 | 13 | 1.0U | NM | NM | NM |
| | 11/6/2018 | 1.40 | 0.74J | 1.0U | 23 | 2.84 | 1.76 |
| | 4/25/2019 | 1 | 0.8J | 1.0U | 105 | 9.62 | 0.00 |
| | 10/17/2019 | 1.0U | 1.0U | 1.0U | 34 | 3.70 | 5.00 |
| MW-77D1 | 4/14/2011 | 1.6 J | 1.7 J | 6.2 | -194 | 0.24 | 3.5 |
| | 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 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe^{+2} (mg/L) |
|---------------------------------|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| MW-77D2 ⁽²⁾ (cont'd) | 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 |
| | 4/26/2018 | 131 | 25.6 | 1.0U | 223 | 8.12 | NM |
| | 11/8/2018 | 66.2 | 13.3 | 1.0U | 42 | 3.33 | 3.3 |
| | 4/24/2019 | 63 | 11 | 1.0U | 173 | 10.10 | 0.0 |
| | 10/14/2019 | 47.4 | 9.8 | 1.0U | 208 | 3.75 | 5.0 |
| 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 |
| | 4/26/2016 ⁽⁵⁾ | 70 | 110 | 1.8 J | NM | NM | 1.03 |
| | 10/21/2016 | 45 | 53 | 2.1J | 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 |
| | 4/19/2018 | 64.6 | 206 | 5.0U | 194 | 13.14 | 4.76 |
| | 11/13/2018 | 90.7 | 107 | 0.43J | 130 | 5.12 | 2.35 |
| | 4/25/2019 | 68 | 150 | 1.0U | 92 | 32.82 | 0.00 |
| | 10/16/2019 | 58 | 137 | 1.2 | 215 | 13.34 | 3.76 |
| 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 |
| MW-81D2 ⁽¹⁾ (cont'd) | 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 |
| MW-81D2 ⁽¹⁾ (cont'd) | 11/30/2011 | 10 | 130 | 5.0 U | NM | 11.01 | NM |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|------------------------|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| | 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 |
| | 4/19/2018 | 84.4 | 16.8 | 1.0U | 241 | 1.41 | 2.2 |
| | 11/13/2018 | 4.09 | 0.65J | 1.0U | 52 | 1.95 | 3.3 |
| | 4/25/2019 | 61 | 8 | 1.0U | 17 | 14.62 | 0.0 |
| | 10/16/2019 | 54.9 | 3.5 | 1.0U | 207 | 6.57 | 1.8 |
| 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 |
| | 4/20/2018 | NA | NA | NA | 124 | 11.72 | 2.81 |
| | 11/8/2018 | 1.16 | 1.12 | 1.0U | 37 | 1.04 | 1.04 |
| | 4/24/2019 | 10 | 14 | 4 | 126 | 11.54 | 0.47 |
| | 10/15/2019 | 8.4 | 11.5 | 2.1 | 150 | 15.23 | 5.00 |
| 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 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|---------------------------------|--------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| MW-82D2 ⁽¹⁾ (cont'd) | 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 |
| | 4/20/2018 | 0.36J | 0.41J | 1.0U | 119 | 11.77 | <5 |
| | 11/8/2018 | 13.1 | 11.8 | 1.0U | 113 | 6.52 | 0.2 |
| | 4/24/2019 | 0.7J | 0.8J | 1.0U | 142 | 10.16 | 0.1 |
| | 10/15/2019 | 1.0U | 1.0U | 1.0U | 123 | 5.29 | 3.8 |
| 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 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|---------------------------------|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| MW-83D1 ⁽¹⁾ (cont'd) | 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 |
| | 4/19/2018 | 38.8 | 133 | 5.0U | 180 | 10.42 | 4.3 |
| | 11/12/2018 | 51.5 | 67.3 | 1.0U | 87 | 6.44 | >5 |
| | 4/26/2019 | 99 | 66 | 1.0U | 69 | 15.46 | 0.0 |
| | 10/16/2019 | 71.6 | 141 | 1.6 | 140 | 20.79 | 5.0 |
| 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 |
| | 4/19/2018 | 66 | 95.4 | 5.0U | 223 | 6.97 | 3.7 |
| | 11/12/2018 | 88.2 | 118 | 1.0U | 46 | 5.61 | 2.3 |
| | 4/26/2019 | 78 | 100 | 1.0U | 162 | 13.60 | 0.0 |
| | 10/16/2019 | 96 | 127 | 1.0U | 248 | 8.07 | 2.5 |
| MW-84D1 ⁽¹⁾ | 10/24/2006 | NA | NA | NA | 50 | 7.89 | 1.44 |
| | 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 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe^{+2} (mg/L) |
|---------------------------------|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| MW-84D1 ⁽¹⁾ (cont'd) | 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 |
| | 4/19/2018 | 3.35 | 1.43 | 1.0U | 162 | 7.29 | 2.57 |
| | 11/13/2018 | 3.6 | 0.72J | 1.0U | 195 | 4.39 | 1.80 |
| | 4/24/2019 | 0.5J | 0.3J | 1.0U | 252 | 28.87 | 0.00 |
| | 10/15/2019 | 8.4 | 7.4 | 1.0U | 148 | 2.56 | 2.34 |
| 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 |
| | 4/19/2018 | 6.48 | 19 | 1.0U | 59 | 3.40 | 5.00 |
| | 11/13/2018 | 1.94 | 1.11 | 1.0U | 169 | 7.68 | 2.81 |
| | 4/24/2019 | 5 | 10 | 1.0U | 177 | 9.91 | 0.00 |
| | 10/15/2019 | 1.0U | 1.0U | 1.0U | 198 | 1.70 | 5.00 |
| MW-85S ⁽²⁾ | 4/20/2011 | 3.6 J | 5.0 U | 5.0 U | 46 | 4.38 | 0.5 |
| | 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 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|--------------------------------|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| MW-85S ⁽²⁾ (cont'd) | 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 |
| | 11/12/2018 | 3.70 | 2.58 | 1.0U | 57 | 6.43 | 4.46 |
| 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 |
| | 4/20/2018 | 5.79 | 9.99 | 1.66 | NM | NM | NM |
| | 11/12/2018 | 2.84 | 12.7 | 3.22 | 30 | 4.63 | 3.4 |
| | 4/23/2019 | 2 | 4 | 0.3J | 150 | 4.33 | 0.1 |
| | 10/15/2019 | 1.5 | 1.9 | 1.0U | 195 | 3.40 | NM |
| 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 |

Table 2

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe^{+2} (mg/L) |
|---------------------------------|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| MW-85D2 ⁽²⁾ (cont'd) | 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 |
| | 4/20/2018 | 4.17 | 8.04 | 1.0U | 90 | 8.75 | NM |
| | 11/12/2018 | 2.31 | 4.9 | 1.0U | 152 | 3.99 | 4.44 |
| | 4/23/2019 | 2 | 5 | 1.0U | 172 | 8.85 | 0.00 |
| | 10/15/2019 | 4.1 | 7.4 | 1.0U | 199 | 9.92 | 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 |
| | 4/24/2018 | 1.61 | 1.55 | 1.0U | 126 | 0.00 | >5 |
| | 11/8/2018 | 2.18 | 4.70 | 1.0U | 38 | 1.52 | 4.5 |
| | 4/25/2019 | 2 | 2 | 1.0U | 39 | 13.73 | 0.0 |
| | 10/16/2019 | 2.8 | 1.1 | 1.0U | 322 | 7.22 | 5.0 |
| 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 |
| | 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 |
| | 4/24/2018 | 11 | 153 | 5.0U | NM | NM | NM |
| | 11/8/2018 | 10.7 | 141 | 1.0U | 152 | 1.31 | 3.2 |
| | 4/25/2019 | 6 | 75 | 1.0U | -72 | 13.12 | 0.0 |
| | 10/16/2019 | 4.3 | 55 | 1.0U | 216 | 1.35 | 5.0 |
| 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 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|---------------------------------|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| MW-87D1 ⁽¹⁾ (cont'd) | 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 |
| | 4/19/2018 | 49 | 9.14 | 1.0U | 238 | 17.12 | 2.9 |
| | 11/5/2018 | 57.4 | 27 | 1.0U | 195 | 15.79 | 0.0 |
| | 4/26/2019 | 40 | 20 | 1.0U | 191 | 14.49 | 0.0 |
| | 10/16/2019 | 21.1 | 8.3 | 1.0U | 256 | 12.10 | 2.6 |
| 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 |
| | 4/19/2018 ⁽⁵⁾ | 834 | 64.4 | 20U | NM | NM | NM |
| | 11/5/2018 | 731 | 85.7 | 1.0U | 277 | 2.89 | 0.1 |
| | 4/26/2019 | 990 | 100 | 1.0U | 210 | 11.76 | 0.0 |
| | 10/16/2019 | 1000 | 85.4 | 1.0U | 228 | 3.24 | 1.9 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | 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 | 2.0 UJ | 29 | 12.12 | 0.00 |
| | 4/25/2017 | 14 | 4.9 | 1.0 U | 63 | 6.65 | 0.45 |
| | 10/17/2017 | 11 | 5.4 | 1.4 | 143 | 17.94 | 0.00 |
| | 4/20/2018 | 10.1 | 3.8 | 0.51 J | 163 | 16.54 | 1.43 |
| | 11/8/2018 | 7.5 | 2.67 | 1.0 U | 83 | 6.67 | 0.14 |
| | 4/24/2019 | 7 | 2 | 1.0 U | 90 | 15.02 | 0.00 |
| | 10/17/2019 | 9.1 | 2.9 | 1.0 U | 139 | 13.33 | 2.46 |
| 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 | 1.0 U | 123 | 8.05 | 0.3 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe^{+2} (mg/L) |
|---------------------------------|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| MW-88D2 ⁽¹⁾ (cont'd) | 10/17/2017 | 17 | 16 | 1.0U | -51 | 0.00 | 0.1 |
| | 5/4/2018 | 41.5 | 34.1 | 0.44 | NM | NM | NM |
| | 11/8/2018 | 13.2 | 24.1 | 1.0U | 2 | 2.14 | 2.2 |
| | 4/24/2019 | 14 | 22 | 1.0U | 30 | 8.43 | 0.2 |
| | 10/17/2019 | 6.9 | 11.1 | 1.0U | 38 | 1.72 | 2.5 |
| 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 |
| | 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 |
| | 4/20/2018 ⁽⁵⁾ | 16.8 | 18.4 | 4.8 | NM | NM | >5 |
| | 1/12/2018 | 25 | 13.7 | 0.98J | 70 | 1.98 | 4.7 |
| | 4/23/2019 | 13 | 12 | 0.7J | 156 | 4.23 | 0.0 |
| | 10/15/2019 | 14.9 | 13.9 | 2 | 226 | 4.89 | 5.0 |
| 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 |
| | 4/20/2018 | 6.89 | 5.31 | 0.53J | 105 | 1.24 | >5 |
| | 11/12/2018 | 5.79 | 5.26 | 1.0U | 37 | 4.70 | 3.7 |
| | 4/23/2019 | 8 | 7 | 0.6J | 128 | 12.08 | 0.1 |
| | 10/15/2019 | 6.7 | 5.9 | 1.0U | 72 | 2.11 | NM |
| 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 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g/L}$) | TCE ($\mu\text{g/L}$) | VCM ($\mu\text{g/L}$) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|---------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|-------------|--------------|----------------------------|
| MW-90D1 ⁽²⁾ (cont'd) | 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 |
| | 4/26/2018 ⁽⁵⁾ | 14.8 | 5.78 | 1.0U | NM | NM | NM |
| | 11/6/2018 | 10.6 | 4.59 | 1.0U | NM | NM | NM |
| | 4/25/2019 | 4 | 2 | 1.0U | NM | NM | NM |
| | 10/14/2019 | 5.6 | 4.7 | 1.0U | 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 |
| | 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 |
| | 4/26/2018 ⁽⁵⁾ | 13 | 5.1 | 1.0U | NM | NM | NM |
| | 11/6/2018 | 19 | 11.3 | 1.0U | NM | NM | NM |
| | 4/25/2019 | 17 | 12.0 | 1.0U | NM | NM | NM |
| | 10/14/2019 | 17 | 16.1 | 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 |
| | 4/24/2018 ⁽⁵⁾ | 56 | 2370 | 50U | NM | NM | NM |
| | 11/20/2018 | 17.9 | 319 | 1.0U | 91 | 1.31 | >5 |
| | 5/8/2019 | 36 | 750 | 1.0U | 151 | 6.35 | 0 |
| | 10/27/2019 | 18.3 | 357 | 1.0U | 153 | 2.35 | 4.02 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|---------|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| 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 |
| | 4/24/2018 | 59 | 2300 | 50U | NM | NM | NM |
| | 11/20/2018 | 23.9 | 522 | 1.0U | 151 | 3.26 | 2.6 |
| | 5/8/2019 | 32 | 750 | 1.0U | -77 | 6.35 | 0.0 |
| 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 |
| | 5/22/2018 ⁽⁵⁾ | 55 | 1910 | 50U | NM | NM | 4.62 |
| | 11/5/2018 | 115 | 436 | 5.0U | 253 | 4.40 | 0.10 |
| | 4/23/2019 | 37 | 319 | 2.0U | 139 | 8.64 | 1.04 |
| | 10/13/2019 | 16.5 | 237 | 1.0UJ | -123 | 5.04 | 5.00 |
| 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 |
| | 4/24/2018 ⁽⁵⁾ | 1.0U/1.0U | 3.97/3.92 | 1.0U/1.0U | NM | NM | NM |
| | 11/5/2018 | 0.33J | 1.57 | 1.0U | 42 | 3.18 | 0.08 |
| | 4/23/2019 | 1.0U | 1 | 1.0U | 77 | 13.08 | 0.26 |
| | 10/13/2019 | 1.0U | 1.0U | 1.0U | -32 | 0.46 | 2.73 |
| 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 |
| MW-62I | 5/10/2010 | 5.4 | 8.1 U | 3.5 J | 100 | 10.95 | 0.0 |
| | 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 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|------------------------|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------|--------------------------------|--|
| 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 | 1.4 J | 2.2 J | 2.0 UJ | 35 | 0.02 | NM |
| | 4/26/2017 | 1.0 U | 1.0 U | 1.0 U | 190 | 11.67 | 0.8 |
| | 10/16/2017 | 0.6 J | 0.9 J | 1.0 U | 137 | 7.45 | 0.2 |
| | 4/24/2018 | 3.8 | 6.9 | 1.0 U | 223 | 19.44 | 3.2 |
| | 11/5/2018 | 10.9 | 12.0 | 1.0 U | 84 | 6.40 | NM |
| | 4/23/2019 | 27 | 24.0 | 0.7 J | 177 | 8.12 | 0.1 |
| | 10/13/2019 | 8.4 | 13.4 | 1.0 UJ | 275 | 9.61 | 5.0 |
| MW-67S ⁽²⁾ | 5/20/2010 | 26/27 | 37/39 | 87/95 | -170 | 0.00 | 7.0 |
| | 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 | 2.0 UJ | 26 | 0.29 | 0.2 |
| | 4/26/2017 | 67 | 61 | 1.0 U | 100 | 4.02 | NM |
| | 10/16/2017 | 60 | 66 | 0.7 J | 87 | 2.77 | 0.0 |
| | 4/24/2018 | 43.8 | 53.4 | 1.0 U | 243 | 9.39 | 1.6 |
| | 11/5/2018 | 51.3 | 51.4 | 1.21 | NM | NM | NM |
| | 4/23/2019 | 2 | 0.6 J | 1.0 U | 152 | 7.11 | 0.2 |
| | 10/13/2019 | 1.0 U | 1.0 | 1.0 U | 141 | 0.00 | 4.2 |
| 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 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g/L}$) | TCE ($\mu\text{g/L}$) | VCM ($\mu\text{g/L}$) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|--------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|-------------|--------------|----------------------------|
| MW-67D ⁽²⁾ (cont'd) | 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 |
| | 4/24/2018 | 1.0U | 1.0U | 1.0U | NM | NM | NM |
| | 11/5/2018 | 1.0U | 0.4J | 1.0U | 8 | 2.62 | NM |
| | 4/23/2019 | 1.0U | 1.0U | 1.0U | 139 | 6.83 | 0.1 |
| | 10/13/2019 | 1.0U | 1.0U | 1.0UJ | 71 | 0.77 | 5.0 |
| 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 |
| | 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 |
| | 4/24/2018 | 60.4 | 84.4 | 66 | 163 | 3.39 | 0.5 |
| | 1/5/2018 | 67.4 | 83.3 | 27.9J | -36 | 1.79 | 1.5 |
| | 4/23/2019 | 58 | 84 | 42 | -97 | 4.72 | 0.0 |
| | 10/13/2019 | 18.4 | 28.2 | 5.2J | -81 | 0.00 | 1.6 |
| 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 |
| | 4/24/2018 | 2.54 | 8.1 | 1.0U | NM | NM | >5.0 |
| | 11/5/2018 | 3.75 | 9.34 | 1.0U | 0 | 1.59 | 0.0 |
| | 4/23/2019 | 3 | 13 | 1.0U | 83 | 7.22 | 0.2 |
| | 10/13/2019 | 5.9 | 20.3 | 1.0UJ | 121 | 4.38 | 5.0 |
| 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 |
| | 10/17/2019 | 1.0U | 3.9 | 14.7 | -92 | 0.88 | 5.0 |
| 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 |
| | 10/17/2019 | 29.9 | 4.3 | 1.0U | -100 | 2.30 | 5.0 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
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| Well | Date Sampled | PCE ($\mu\text{g/L}$) | TCE ($\mu\text{g/L}$) | VCM ($\mu\text{g/L}$) | ORP (mV) | DO (mg/L) | Fe ⁺² (mg/L) |
|-----------------------|--------------|----------------------------|----------------------------|----------------------------|-------------|--------------|----------------------------|
| 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 |
| | 10/17/2019 | 1.0U | 1.0U | 1.0U | 6 | 2.68 | 4.2 |
| 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 |
| | 10/17/2019 | 1.0U | 1.0U | 1.0U | NM | NM | NM |
| 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 |
| | 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 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
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) | 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 |
| | 5/10/2018 | 20 | 631 | ND | NR | NR | NR |
| | 2/13/2019 | 17 | 589 | ND | NR | NR | NR |
| | 8/6/2019 | 17 | 546 | 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 |
| | 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 |

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Select Laboratory and Field Parameter Results
Operable Unit 3
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) | 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 |
| | 2/28/2018 ⁽⁶⁾ | 26 | 306 | 2.2 | NR | NR | NR |
| | 5/10/2018 ⁽⁶⁾ | 28 | 332 | 2.0 | NR | NR | NR |
| | 2/13/2019 ⁽⁶⁾ | 31 | 333J | 1.7 | NR | NR | NR |
| | 8/6/2019 | 28 | 298 | 1.3 | NR | NR | NR |
| 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 |
| | 6/11/2018 | 19 | 139 | 36 | NR | NR | NR |

Table 2

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Select Laboratory and Field Parameter Results
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well | Date Sampled | PCE ($\mu\text{g}/\text{L}$) | TCE ($\mu\text{g}/\text{L}$) | VCM ($\mu\text{g}/\text{L}$) | ORP (mV) | DO (mg/L) | Fe⁺² (mg/L) |
|-------------|---------------------|--|--|--|---------------------|---|--|
|-------------|---------------------|--|--|--|---------------------|---|--|

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

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Biosparge System Well Status December 31, 2019
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well Designation | Date Completed | Well Functional | Comments/Proposed Action |
|-------------------------|-----------------------|------------------------|---|
| IW-1D1A | 04/28/11 | Y | |
| IW-1D1L | 04/28/11 | N | |
| IW-1D2A | 04/28/11 | Y | |
| IW-2D1A | 04/8/11 | Y | |
| IW-2D1L | 04/8/11 | N | |
| IW-2D2A | 04/8/11 | Y | |
| IW-3D1A | 03/25/11 | Y | |
| IW-3D1L | 03/25/11 | N | |
| IW-3D2A | 03/25/11 | Y | |
| IW-4D1A | 01/27/11 | Y | |
| IW-4D1L | 01/27/11 | N | |
| IW-4D2A | 01/27/11 | Y | |
| IW-5D1A | 04/12/11 | Y | |
| IW-5D1L | 04/12/11 | N | |
| IW-5D2A | 04/12/11 | Y | |
| IW-6D1A | 01/17/11 | Y | |
| IW-6D1L | 01/17/11 | N | |
| IW-6D2A | 01/17/11 | N | DO in downgradient MW-73 >2.0 mg/L. No action planned. |
| IW-7D1A | 03/29/11 | N | DO in downgradient MW-77 >2.0 mg/L. No action planned. |
| IW-7D1L | 03/29/11 | N | |
| IW-7D2A | 03/29/11 | Y | |
| IW-15D1A | 10/05/10 | Y | DO in downgradient MW-87 >2.0 mg/L. No action planned. |
| IW-15D1L | 10/05/10 | N | |
| 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 | N | |
| IW-16D2A | 11/01/05 | Y | |
| IW-17D1A | 12/01/05 | Y | |
| IW-17D1L | 12/01/05 | N | |
| IW-17D2A | 12/01/05 | N | DO in downgradient MW-81 >2.0 mg/L. No 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 | N | |
| IW-18D2A | 01/09/06 | Y | |
| IW-19D1A | 01/13/06 | Y | DO in downgradient MW-82/88 >2.0 mg/L. |
| IW-19D1L | 01/13/06 | N | |
| IW-19D2A | 01/13/06 | Y | DO in downgradient MW-82/88 >2.0 mg/L. |
| IW-20D1A | 10/13/10 | Y | DO in downgradient MW-85 >2.0 mg/L. |
| IW-20D1L | 10/13/10 | N | |
| IW-20D2A | 10/13/10 | Y | DO in downgradient MW-85 >2.0 mg/L. |
| IW-21D1A | 10/23/10 | N | |
| IW-21D1L | 10/23/10 | N | |
| IW-21D2A | 10/23/10 | Y | DO in downgradient MW-89 >2.0 mg/L. |
| IW-22D1A | 11/03/10 | Y | |
| IW-22D1L | 11/03/10 | N | |
| IW-22D2A | 11/03/10 | Y | |
| 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. |
| MW-53D2 | 06/05/95 | Y | Well no longer needed to monitor remediation of VCM subplume. Obstruction in well prevents sampler insertion. |

Table 3

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Biosparge System Well Status December 31, 2019
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well Designation | Date Completed | Well Functional | Comments/Proposed Action |
|------------------|----------------|-----------------|---|
| 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 | |
| MW-70D2 | 02/02/11 | Y | |
| MW-72D1 | 03/16/11 | Y | |
| MW-72D2 | 03/16/11 | Y | |
| MW-73D1 | 02/11/11 | Y | |
| 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 | |
| MW-81D1 | 11/01/05 | Y | |
| MW-81D2 | 11/01/05 | Y | |
| MW-82D1 | 02/15/06 | Y | Manhole cover requires repair |

Table 3

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Biosparge System Well Status December 31, 2019
Operable Unit 3
Hooker/Ruco Site
Hicksville, New York

| Well Designation | Date Completed | Well Functional | Comments/Proposed Action |
|-------------------------|-----------------------|------------------------|--|
| MW-82D2 | 02/15/06 | Y | Manhole cover requires repair |
| MW-83D1 | 11/06/05 | Y | |
| MW-83D2 | 11/06/05 | Y | |
| MW-84D1 | 04/12/06 | Y | Well casing degraded, may require future repair |
| MW-84D2 | 04/12/06 | Y | Well casing degraded, may require future repair |
| 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 | |
| MW-86D1 | 11/11/10 | Y | |
| MW-86D2 | 11/11/10 | Y | |
| 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 | |
| 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. |

Note:

NA Not Applicable