

From: Doshi, Reeti <Reeti.Doshi@aecom.com>
Sent: Tuesday, October 02, 2018 3:17 PM
To: Spellman, John (DEC)
Cc: tlbazicek@nyseg.com
Subject: Mechanicville - Groundwater Monitoring Report
Attachments: 2017 Mechanicville Monitoring Report.pdf

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Dear John,

Hope you have been doing well. Attached please find the groundwater monitoring report for the former MGP site in Mechanicville, NY. Please let me know if you have any question or comment on the report.

Thank you.

Reeti

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December 5, 2018

SENT VIA ELECTRONIC MAIL

Mr. John Spellman
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7014

Subject: **Mechanicville Site Management
Annual Status Report
Site #: 546033
NYSEG – Mechanicville Central Avenue Former MGP Site**

Dear Mr. Spellman,

On behalf of New York State Electric and Gas Corporation (NYSEG), AECOM has prepared this letter to describe events associated with site management activities at the Mechanicville Central Avenue Former Manufactured Gas Plant (Site) in Mechanicville, NY. The report summarizes the annual activities performed at the Site in 2018 in accordance with the site management plan (SMP) approved by the New York State Department of Environmental Conservation (NYSDEC) in April 2011 as well as the periodic review report (PRR) approved by the NYSDEC in August 2016.

The Mechanicville former MGP Site is located on North Central Avenue in Mechanicville, Saratoga County, NY. The Site is bordered on the east by North Central Avenue (formerly the Champlain Canal); on the south by Ferris Lane; on the west by G. A. Bove & Sons, a fuel distributor; and on the north by the Anthony Kill, a small tributary that flows eastward into the Hudson River.

The SMP requires the following activities:

- Measuring non aqueous phase liquids (NAPL) at selected monitoring wells and removal of NAPL from wells with greater than 6 inches (0.5 feet) of measureable NAPL;
- Monitoring of the Anthony Creek for NAPL blebs quarterly for the first year and revised the monitoring frequency to annual as per the 2016 PRR;
- Annual streambank inspections;
- Groundwater sampling of selected wells once every two years until the results meet the groundwater standards, criteria, and guidelines (SCGs) for at least two consecutive sampling events. Last groundwater sampling event was conducted in 2017 and the next one will be in 2019; and
- Indoor air quality sampling is required prior to change in site usage or site development; no buildings are presently located at the site.

NAPL Monitoring

On August 31, 2018, wells TW-1, TW-2, TW-3, MW-1D, MW-10D, MW-33D, MW-42D and MW-45I were monitored to measure the presence of NAPL in each well. The well locations are depicted in Figure 1. To measure NAPL, a weighted cotton string was lowered down the monitoring well casing until the bottom of the monitoring well was reached. The string was then removed from the well and the length of NAPL present on the string was measured. Well MW-34D was decommissioned during

the Anthony Kill Bridge replacement activities in 2014 and therefore not gauged. Missing bolts from some of the well covers were replaced during this visit.

A metal detector was used to successfully locate MW-1D, which was covered by stones. The metal detector as well as the survey equipment was used to successfully locate MW-35I in the overgrown area on the car repair property. However a boat and a trailer were parked over it, making the well inaccessible for gauging. Well cover for MW-44I was identified, but there was no sign of well under it. Area around the empty cover was also scanned with the metal detector and the stones were moved in an attempt to locate the well, but MW-44I was not found. Damage to MW-44I was also recorded during the 2016 semi-annual visit and it was noted that the well cover was removed and the top of the well was covered with stone from the recent paving activities at the site. Pictures of the well MW-35I and empty well cover in the general area of MW-44I are included in the photo log (Attachment 1). Based on the observations and failed attempts to locate the well MW-44I, we would request for it to be considered abandoned, and be removed from the NAPL monitoring list.

During this monitoring period, four of the wells had measurable NAPL; three with thicknesses above six inches. Table 1 summarizes the NAPL thickness in select monitoring wells in August 2018.

Table 1 - Summary of NAPL Monitoring (August 2018)

Monitoring Well	NAPL Thickness (inches)	NAPL Mixture Removed This Period (Gallons)
TW-1	18	14
TW-2I	0	0
TW-3	0	0
MW-1D	0	0
MW-10D	20.25	3
MW-33D	0	0
MW-34D	Decommissioned	0
MW-35I	Not Accessible	0
MW-42D	1	0
MW-44I	Damaged	0
MW-45I	48	19

NAPL RECOVERY

NAPL was recovered from three wells (TW-1, MW-10D, and MW-45I) with NAPL accumulation of more than 6-inches in November 2018. Combination of peristaltic pump and bailers was used to recover maximum NAPL from the wells. Approximately 36 gallons of NAPL mixture was removed from the three wells and stored into a 55-gallon drum pending disposal at an approved disposal facility in accordance with all state and federal regulations. All solid waste (i.e. disposable personal protective equipment, tubing, buckets, strings, wipes, etc.) generated during the gauging and recovery event were stored on-site in a separate 55-gallon drum. Both drums were properly labeled and closed pending disposal.

STREAMLINE AND CREEK OBSERVATION

The Anthony Kill was observed for signs of visible NAPL blebs on August 31, 2018. No blebs were observed after one hour of monitoring. Following the observation period, existing sediments were probed with a stick near the stream bank in the area where sediment removal occurred during remedial activities. Upon probing of the stream sediment at the designated location, sheen appeared from the sediments in the vicinity of the probed area approximately one-three feet from the bank. Pictures of the blebs are included in the attached photo log (Attachment 1). Blebs continued to appear from the stream bed for approximately five minutes after the sediments were probed. After five minutes the blebs dissipated. The observations from the August 2018 event are consistent with past streamline and creek observation events. A summary of this site inspection and streambank observations are presented in Attachment 2.

STREAMBANK STABILIZATION

An annual streambank analysis was completed during this site visit. The stream bank, with the exception of the rip rap area, appeared to be completely vegetated with grass and clover in good health. Photographs taken during the site inspection are included in Attachment 1.

ANNUAL SITE INSPECTION

The annual site inspection was also performed by the Engineer on August 31, 2018. The site usage and conditions are consistent with the previous year. Since there are no new occupied structures at the site, indoor air quality monitoring is not required. The concrete slab, asphalt pavement, and gravel cover at the site prevent human exposure to the underlying soils. No significant erosion was noticed at the site. The annual site inspection form is included as Attachment 3.

If you have any questions please contact me at (646) 220-8786 or Reeti.Doshi@aecom.com.

Yours sincerely,



Reeti Doshi
Project Manager

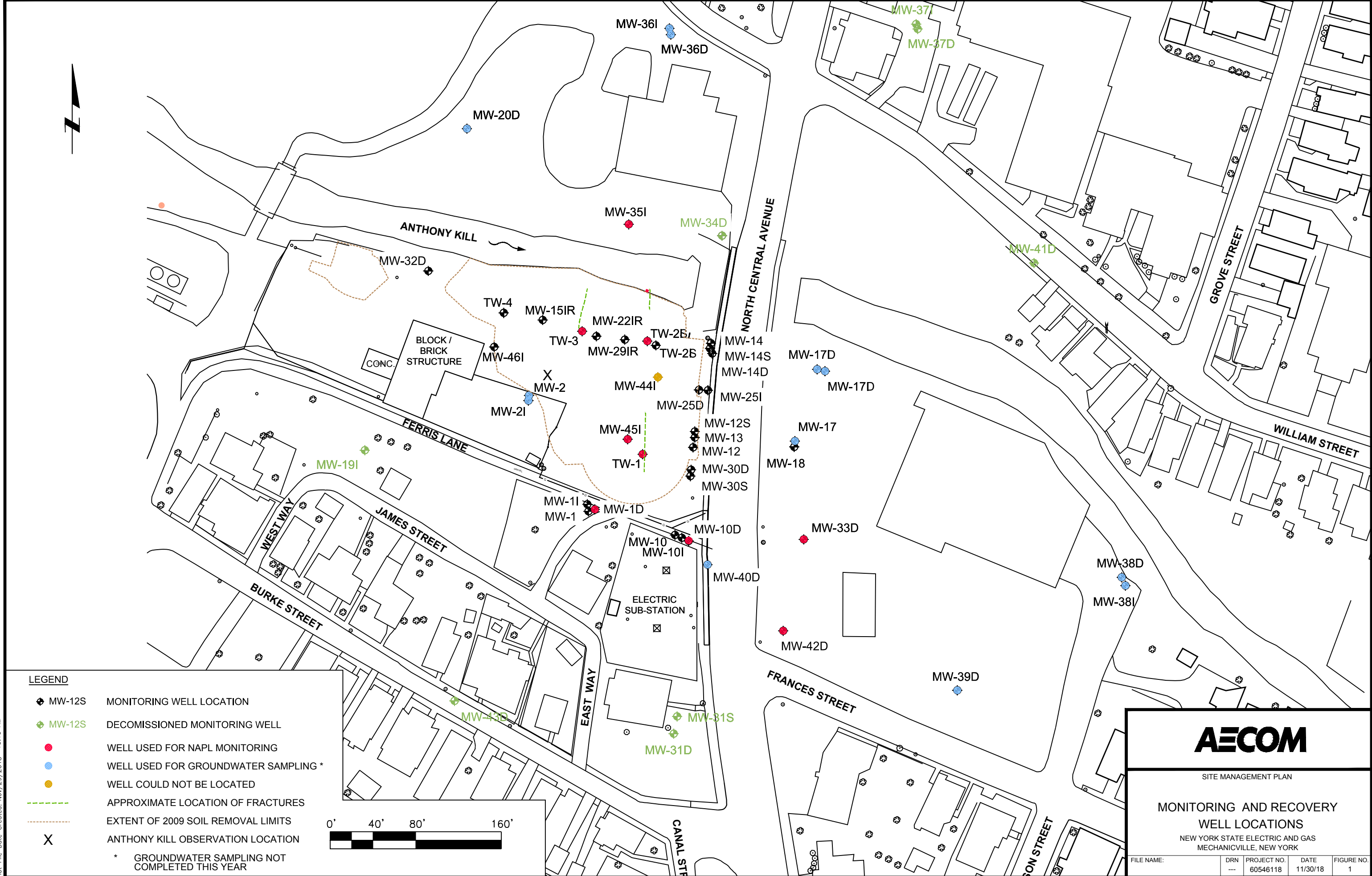
cc: T. Blazicek, NYSEG

Attachments:

- Figure 1 – Site Layout Map
- Attachment 1 – Photo Log
- Attachment 2 – Anthony Kill Creek Observation Form
- Attachment 3 – Annual Site Inspection Form

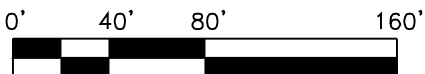
FIGURE

Plotted By: meisterk
Layout-Sheet Name: SM-MW-FIG1
Plot File Date Created: Nov/29/2018 10:10 AM



LEGEND

- MW-12S MONITORING WELL LOCATION
- MW-12S DECOMISSIONED MONITORING WELL
- WELL USED FOR NAPL MONITORING
- WELL USED FOR GROUNDWATER SAMPLING *
- WELL COULD NOT BE LOCATED
- APPROXIMATE LOCATION OF FRACTURES
- EXTENT OF 2009 SOIL REMOVAL LIMITS
- X ANTHONY KILL OBSERVATION LOCATION
- * GROUNDWATER SAMPLING NOT COMPLETED THIS YEAR



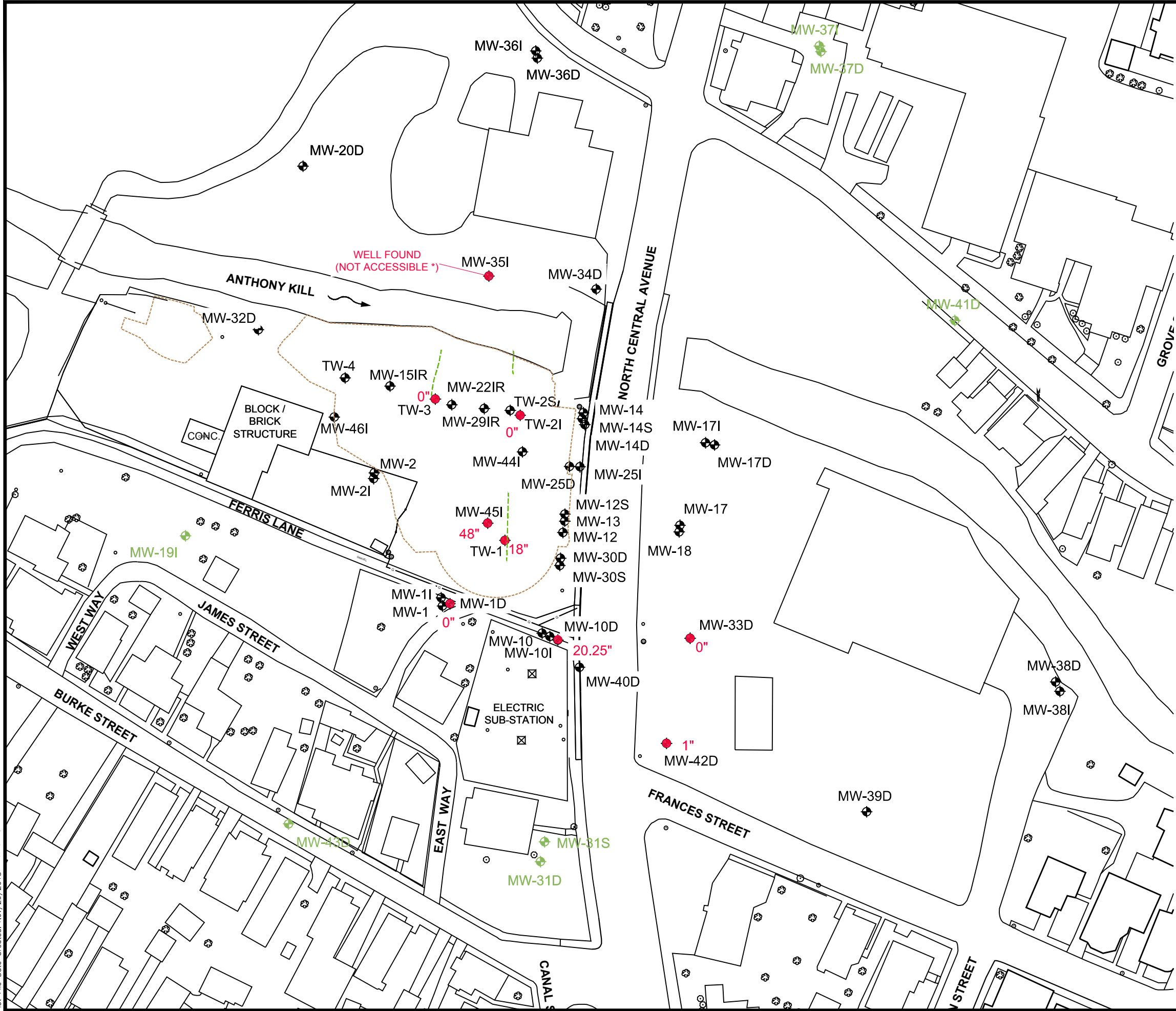
AECOM

SITE MANAGEMENT PLAN

MONITORING AND RECOVERY
WELL LOCATIONS

NEW YORK STATE ELECTRIC AND GAS
MECHANICVILLE, NEW YORK

FILE NAME:	DRN	PROJECT NO.	DATE	FIGURE NO.
	---	60546118	11/30/18	1

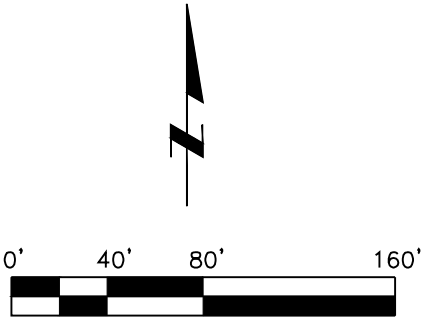


LEGEND

- MW-44I MONITORING WELL LOCATION
- WELL USED FOR NAPL MONITORING
- 2.5" NAPL THICKNESS (INCHES) -AUGUST 2018
- APPROXIMATE LOCATION OF FRACTURES
- EXTENT OF 2009 SOIL REMOVAL

NOTES

* WELL FOUND ON ADJACENT PROPERTY. NOT ACCESSIBLE DUE TO BOAT AND TRAILER PARKED OVER WELL.

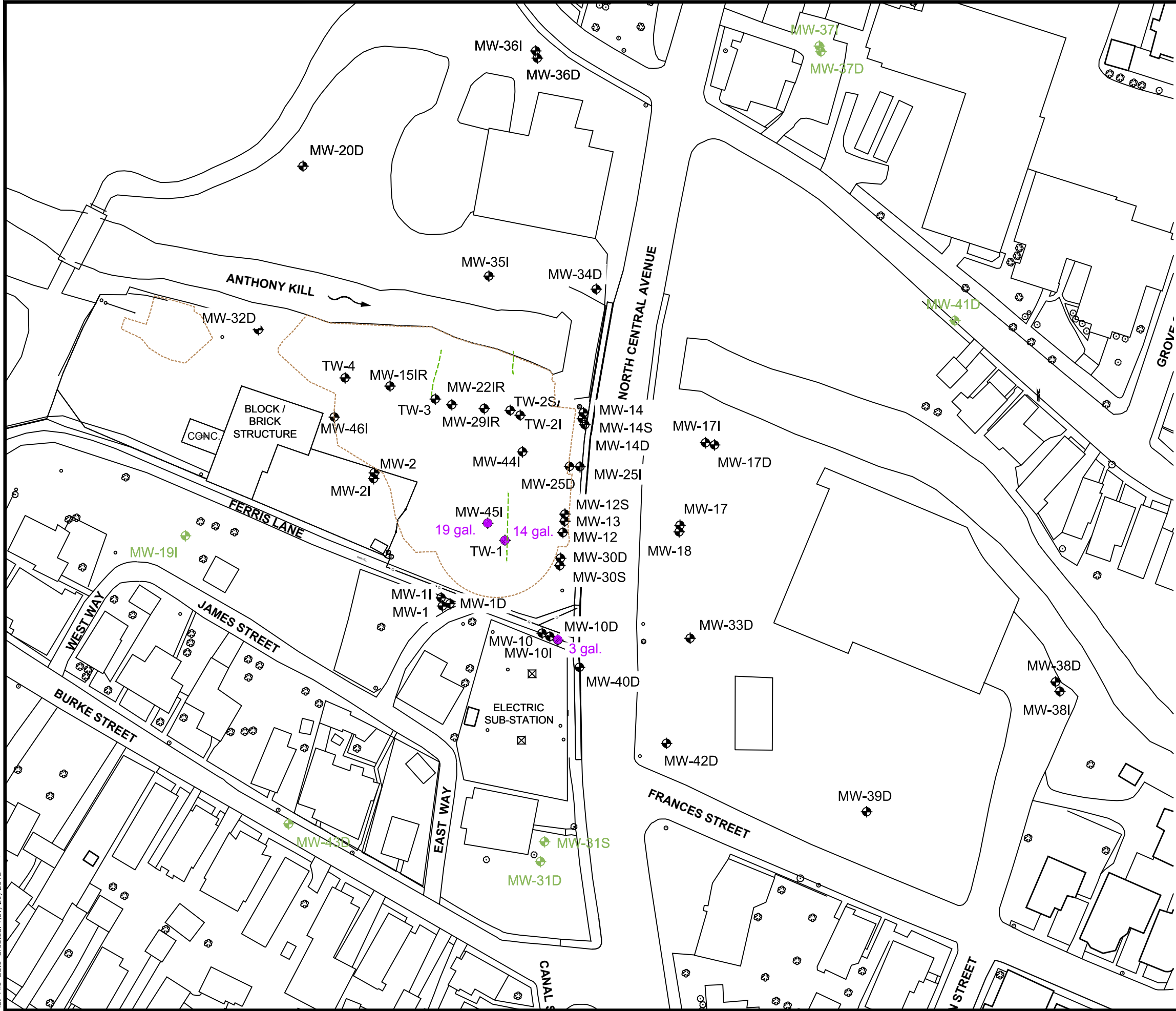


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NAPL MONITORING RESULTS
AUGUST 2018

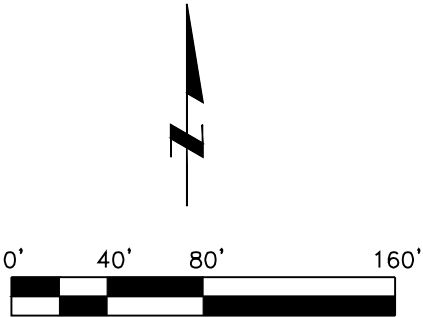
NEW YORK STATE ELECTRIC AND GAS
MECHANICVILLE, NEW YORK

FILE NAME:	DRN	PROJECT NO.	DATE	FIGURE NO.
	---	60546118	11 / 2018	2



LEGEND

- MW-44I MONITORING WELL LOCATION
- WELL USED FOR NAPL RECOVERY
- APPROXIMATE LOCATION OF FRACTURES
- EXTENT OF 2009 SOIL REMOVAL
- XX gal. APPROXIMATE VOLUME OF FLUID (NAPL + WATER) RECOVERED FROM WELL



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**NAPL RECOVERY RESULTS
NOVEMBER 2018**

NEW YORK STATE ELECTRIC AND GAS
MECHANICVILLE, NEW YORK

FILE NAME:	DRN	PROJECT NO.	DATE	FIGURE NO.
	---	60546118	11 / 2018	3

ATTACHMENT 1
Photo Log

Client Name: Mechanicville Former MGP Site		Site Location: Mechanicville, New York	Project No. 94560
Photo No. 1	Date: 11/15/18		
Direction Photo Taken: West			
Description: View of MW-35I under the Boat			

Photo No. 2	Date: 11/15/18	
Direction Photo Taken: North		
Description: View of MW-44I casing.		



PHOTOGRAPHIC LOG

Client Name: Mechanicville Former MGP Site		Site Location: Mechanicville, New York	Project No. 94560
Photo No. 3	Date: 8/31/18		
Direction Photo Taken: South			
Description: View of the General Site Area.			

Photo No. 4	Date: 8/31/18	
Direction Photo Taken: East		
Description: View Streambank Vegetation		



PHOTOGRAPHIC LOG

Client Name: Mechanicville Former MGP Site		Site Location: Mechanicville, New York	Project No. 94560
Photo No. 5	Date: 8/31/18	 A photograph of a stream with green aquatic plants and a blue bleb.	
Direction Photo Taken: Down			
Description: NAPL bleb observed when stream sediments were probed.			

ATTACHMENT 2
Anthony Kill Creek Observation Form

Anthony Kill Creek Observation Form
Mechanicville Former MGP Site

Date	8/31/2018	Notes Gerlinde Wolf
Cloud Cover	60%	
Sun Angle	Behind Cloud	
Precipitation	None	
Time Start	1:54 PM	
Time End	2:54 PM	
# Blebs	0	
Frequency	0/hr	
Location of Observation		On rip rap next to the bridge
Water Level from Mark	26.24	Top of center rail
Stream Elevation		
Were Sediments Probed	Yes	Probed multiple locations where sediment removal was done in past.
Observation after Probing		Sheen and blebs were observed after probing. The sheen and blebs dissipated after 5 minutes.
Stream Bank Stabilized?	Yes	
Approx. % Vegetation Cover	100%	
Health of Vegetation	Good	
Number of Trees		Some dead trees as noted in the previous years. No change.
Soil Cover	Good	

ATTACHMENT 3
Annual Site Inspection Form

Site-Wide Annual Inspection Form

Mechanicville Former MGP Site North Central Avenue Mechanicville, New York

Item	Yes	No	N/A	Comments
Where applicable, is the perimeter fence in good condition?	X			
Are there any signs of erosion on site or along stream bank?		X		
Is 95% of the streambank covered with natural vegetation?	X			
Has remedial performance criteria been achieved				
Has sampling and analysis of appropriate media been performed during the monitoring event?			X	Gauging and Monitoring Only
Has the maintenance checklist been completed? (If a system is installed)			X	
Are site records including the Site Management Plan complete and up-to-date?	X			
If applicable, have there been any modifications made to the remedial or monitoring system?			X	
If applicable, does the remedial or monitoring system need to be changed or altered at this time?			X	
Has there been any intrusive activity, excavation, or construction occurred at the site?		X		
Were the activities mentioned above, performed in accordance with the SMP?	X			
Are the monitoring wells in good condition (e.g., covers, casings)?	X			Bolts on some wells were replaced. Some well covers have stripped threads, only cover was located for MW-44I, suspecting well damage
Was the Anthony Kill Creek monitored for Oily Blebs during this time?	X			
Was there a change in the use of the site or were there new structures constructed on the site?		X		
If the answer above is YES, was a vapor intrusion evaluation done?			X	
Were new mitigation systems installed based on monitoring results?		X		
Was any DNAPL collected from wells during this period?	X			NAPL was recovered from three wells after the gauging event
Are there any DNAPL drums on-site that need disposal?	X			Three drums were left at the site after the NAPL recovery event. The drum pickup and disposal at an approved facility is being scheduled.

Note: Upon completion of the form any non-conforming items warranting corrective action should be identified here within.

Name of Inspector: Gerlinde Wolf
Inspector's Company: AECOM

Signature of Inspector: _____
Date: 8/31/2018