

Fifth Annual Report Interim Remedial Measure for NAPL Recovery

August 2018 Through July 2019
Former Equity Works MGP Site, Brooklyn, New York
NYSDEC Site No.: 224050
Order on Consent Index #: A2-0552-0606
EPA ID number for the Site: NYR 000 225 615

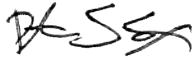
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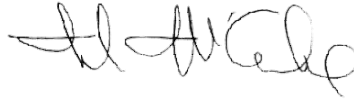
Quality information

Prepared by



Peter S. Cox, PG
Project Manager

Approved by



Mark M. McCabe, Program
Manager

Prepared for:

National Grid

Prepared by:

AECOM
250 Apollo Drive
Chelmsford
MA, 01824
USA
aecom.com

Table of Contents

Executive Summary	1-1
1. Introduction	1-1
2. Recovery Well Installation and Operation.....	2-1
2.1 Recovery Well Designs.....	2-1
2.2 Initial Monitoring and NAPL Recovery.....	2-1
2.2.1 Primary Recovery Wells	2-2
2.2.2 Secondary Recovery Wells	2-2
2.2.3 Gauging Wells	2-2
2.3 System Operation	2-2
2.3.1 Automated Wells.....	2-2
2.3.2 Gauging Wells	2-3
3. System Performance	3-1
3.1 NAPL Recovery	3-1
3.1.1 Automated Wells.....	3-1
3.1.2 Gauging Wells	3-1
3.2 Waste Management.....	3-1
3.3 System Maintenance	3-2
3.4 Incidents/Unplanned Releases.....	3-2
4. Recommendations for Future Operation	4-1
5. References.....	5-1

Tables

Figures

Appendix A Waste Disposal Documentation

Figures

Figure 1-1	Site Location
Figure 1-2	Site Properties
Figure 2-1	Locations of On-Site and Perimeter Recovery Wells
Figure 2-2	Completed Well Location
Figure 2-3	Location of Automated Wells
Figure 2-4	Control Trailer
Figure 3-1	Cumulative Volume of Mixed Fluids Collected
Figure 3-2	NAPL Thickness Versus Time – Gauging Wells
Figure 4-1	NAPL Recharge Rates Versus Time – Automated Wells

Tables

Table 2-1	Categories of Recovery Wells
Table 3-1	NAPL Monitoring and Recovery – Automated Wells
Table 3-2	NAPL Monitoring and Recovery – Gauging Wells
Table 3-3	Summary of Waste Management

Executive Summary

National Grid's consultant, AECOM, has prepared this Interim Remedial Measure (IRM) Annual Report to document the fifth year of operation of the non-aqueous phase liquid (NAPL) recovery system within the footprint of the former Equity Manufactured Gas Plant (MGP) site (the Site) located at 254 Maspeth Avenue in Brooklyn, New York during the period of August 2018 through July 2019. The IRM is being conducted pursuant to a Multi-site Order on Consent and Administrative Settlement, Index # A2-0552-0606, between The Brooklyn Union Gas Company (BUG) d/b/a National Grid NY, and the New York State Department of Environmental Conservation (NYSDEC). Details regarding the construction of the NAPL recovery IRM remedy are included in the IRM for NAPL Recovery Construction Completion Report (CCR), submitted to the NYSDEC in May 2015 (AECOM, 2015).

The Site is located in a historically industrialized area and operated as a MGP from approximately 1893 to 1929. BUG acquired the MGP in approximately 1903 and transferred ownership of the Site in 1951. The Site currently consists of three adjoining properties – 222 Maspeth Avenue, 252 Maspeth Avenue, and 254 Maspeth Avenue. The 222 Maspeth Avenue property was historically used by Cooper Tank as a solid waste recycling facility, with the 252 and 254 parcels used to support Cooper Tank's recycling operations. More recently, the 222 Maspeth Avenue parcel is used to refurbish and ship roll-off containers. The 252 Maspeth Avenue property is leased to a tenant who parks and maintains buses, and the 254 Maspeth Avenue parcel is leased to a construction contractor as a lay-down space to support their construction operations.

The IRM activities included the following:

- installation of 5 recovery wells at appropriate locations within the central areas of the Site to reduce the quantity of NAPL, and at 18 selected perimeter locations to control the potential for off-site migration.
- Installation of two recovery wells within the former No.1 Relief Holder in 2018.
- on-going measurement and recovery of NAPL that collects in the recovery wells.

Data collected to date indicate that NAPL collection rates at 12 of the 23 recovery well locations (2 on-site and 10 perimeter locations) warrant the continued operation of pumps to support automated recovery. The well pumps are controlled with timers that are adjusted, as required, with a goal of containing the NAPL within the sump of each well, but at a level above the inlet to the pump to minimize the collection of groundwater. The remaining 13 wells are managed using manual recovery techniques on a quarterly basis.

Since system startup through July 31, 2019, the system has operated with an average on-line factor of 97% without incidents or unplanned releases from the system. Based on system measurements, approximately 22,300 gallons of mixed fluids have been collected from the recovery system and managed as an alternative fuel, initially at the Tradebe Facility in Cohoes, New York until March of 2017 and more recently at Veolia Technical Solutions Facility in Middlesex, New Jersey. An estimate of the organic/water ratios over the monitoring period indicates that the mixed fluids collected typically contain 60 to 75% organic, resulting in over 13,390 gallons of NAPL being removed from the site to date.

1. Introduction

National Grid's consultant, AECOM, is submitting this 5th Annual Report outlining the Interim Remedial Measure (IRM) for NAPL Recovery progress during its fifth year of operation. The NAPL recovery system is located within the footprint of the former Equity Works Manufactured Gas Plant (MGP) site (the Site). The Site consists of three adjoining properties – 222 Maspeth Avenue, 252 Maspeth Avenue, and 254 Maspeth Avenue located in Brooklyn, New York. The location of the Site and the orientation of the individual properties are illustrated in Figures 1-1 and 1-2, respectively.

The IRM is being implemented pursuant to a Multi-site Order on Consent and Administrative Settlement, Index # A2-0552-0606, between The Brooklyn Union Gas Company (BUG) d/b/a National Grid NY, and the New York State Department of Environmental Conservation (NYSDEC), in accordance with applicable guidelines of the NYSDEC and the New York State Department of Health (NYSDOH).

This document is organized in the following manner: a summary of activities associated with the initial installation and operation of the recovery wells is presented in Section 2; the results from the fifth year's monitoring activities are documented in Section 3 and proposed revisions to the system's operation and monitoring program are discussed in Section 4.

2. Recovery Well Installation and Operation

National Grid conducted the IRM to collect recoverable NAPL while site-wide investigation and remedial alternative and design activities are completed. The design of the NAPL recovery system included the installation of 23 recovery wells at locations that were determined to have the potential to collect mobile NAPL and be compatible with Cooper Tank's construction and long-term operational activities. Consistent with the NYSDEC approved work-plan (AECOM, 2013), recovery wells were installed in the following areas of the Site:

- On-Site—5 recovery wells (RW-1 through 5) were installed at locations within the 252 Maspeth Avenue property.
- Site Perimeter—18 recovery wells (RW-6 through 23) were installed along the perimeter of the Site on the 222, 252 and 254 Maspeth Avenue properties.
- Two additional recovery wells (RW-24 and RW-25) were installed in 2018 inside the former No. 1 Relief Holder and added to the NAPL recovery O&M program.

Recovery well locations are shown on Figure 2-1. The perimeter locations are spaced at approximately 18 ft on center, with the exception of the area along the driveway of 254 Maspeth Avenue where the presence of a subsurface structure has required spacing of approximately 30 feet between the three recovery wells (RW-6, -7 and -8). The On-Site and Site Perimeter locations were equipped with the infrastructure, i.e., conduits for electrical service and tubing, for the subsequent automation of NAPL recovery activities.

2.1 Recovery Well Designs

Recovery wells were designed to accommodate the uncertainty of long-term NAPL recovery rates. All well risers were constructed of 6-inch diameter schedule 40 polyvinyl chloride (PVC). Recovery well screens were constructed of 6-inch diameter 0.020-inch slot wire wrap stainless steel. Five (5) and ten (10) foot lengths of screen were used, as required, to address soil intervals where NAPL (i.e., saturated thickness greater than 1-inch) have been observed. Centralizers were installed at the top and bottom of each screen. The screen size was selected based on the grain-size information obtained during the Pre-Design Investigation (PDI). Each well was equipped with a 5-foot long, 6-inch diameter, stainless steel sump to collect NAPL, with the exception of new wells RW-24 and RW-25 which were screened to the former No. 1 Relief Holder foundation to avoid penetrating the holder bottom. The annular space above the filter pack was filled with a bentonite seal (minimum of 3 to 4 feet thick). Note that additional bentonite seals were used at locations where multiple screen intervals were installed. The annular space above the bentonite seal was filled with a grout mixture from the bentonite seal to approximately one to two feet below the top of casing (TOC). Recovery wells at the On-Site and Site Perimeter locations were completed in a 4-foot by 4-foot traffic rated well vault. Illustrations of an in-place recovery well and completed well location are provided in Figure 2-2.

2.2 Initial Monitoring and NAPL Recovery

The NAPL recovery system is intended to operate in a manner that contains the NAPL levels at the locations within the well sumps (5 ft. in length). As part of the installation of the system, initial monitoring activities were conducted to provide a preliminary estimate of potential collection rates. The results were used to determine which locations would require automation for the cost-effective recovery of NAPL. The monitoring activities provided the ability to group the locations into three categories based on the observed recharge rates. They were grouped as follows: Primary Recovery Wells (produce approximately 1 gallon per day (gpd) of NAPL recovered); Secondary Recovery Wells (approximately 0.1 to 0.5 gpd of NAPL recovered) and Gauging Wells (< 0.1 gpd of NAPL recovered). The distribution of wells within these categories is provided on Table 2-1.

2.2.1 Primary Recovery Wells

The majority of NAPL (approximately 85 percent of total) was collected from the eight primary locations. The manual management of NAPL at these locations would require that recovery activities be conducted on a weekly basis to ensure that the storage capacity of the well sumps (approximately 7.5 gallons) not be exceeded. This frequency of manual monitoring/collection was not thought to be cost-effective or practical given site access issues and the level of activity on the Cooper Tank facility. As a result, the wells at these eight locations were automated by setting NAPL recovery pumps in the wells.

2.2.2 Secondary Recovery Wells

Approximately fifteen percent of the NAPL was collected from seven secondary wells. The manual management of NAPL at these locations would require that recovery activities be conducted on a monthly basis to ensure that the storage capacity of the well sumps is not exceeded. Long-term manual monitoring/recovery at this frequency was not thought to be cost effective, and these locations were also automated by setting NAPL recovery pumps in the wells.

2.2.3 Gauging Wells

NAPL levels at the 13 remaining wells were consistently observed to be within the wells sumps at each location or within the former No. 1 Relief Holder foundation. It was believed that NAPL at these locations could be effectively managed on a quarterly basis using manual recovery techniques. Note that one of the secondary wells (RW-11) was converted to a gauging well during the first year of operation, bringing the total to 13 wells.

The initial measurements of the quantity of NAPL collected from locations within the former No. 1 Relief Holder indicate that RW-24 and RW-25 can also be effectively managed on a quarterly basis.

2.3 System Operation

Discussions of the recovery/collection methods for the automated and gauging wells are provided below.

2.3.1 Automated Wells

The Primary and Secondary recovery well locations (Figure 2-3) are equipped with fixed speed pumps manufactured by Pump Works and/or Linear Pumps. Note that the equipment designed by Linear Pumps has been determined to be better suited to site conditions and will be used to replace the Pump Works equipment over time. The well pumps are controlled with timers that are adjusted, as required, with a goal of containing the NAPL within the sump of each well, but at a level above the inlet to the pump to minimize the collection of groundwater.

Collected NAPL is accumulated in a 500-gallon capacity double-walled polyethylene tank located above ground in the system's control trailer on the 254 Maspeth Avenue parcel (Figure 2-4). The accumulation tank is equipped with a high liquid level detector to prevent over-filling, as well as secondary containment. The system is equipped with additional alarms and communication equipment to ensure its safe operation.

The contents of the tank are periodically gauged by field staff using the following method:

- The tank is accessed through the topmost access port;
- An interface probe is lowered to the bottom of the tank;
- The probe is left in place for a period of 5 minutes to allow the separate layers of NAPL and water to resolve;
- The probe is slowly raised until the water level is encountered;

The thicknesses of the NAPL and water levels are used to estimate the relative organic/water composition of the mixed fluids.

2.3.2 Gauging Wells

The Gauging Wells are monitored during quarterly inspection activities and accumulated NAPL is recovered using an air lift system that consists of an air compressor and sample line (1 inch outside diameter black iron pipe) that runs from the bottom of the well sump to a closed 55-gallon drum and is operated in the following manner:

- A small stream of compressed air is introduced into the bottom of the sample line through a "T" connection.
- The upward movement of the air "bubble" creates a vacuum that draws NAPL upward from the sump and into the drum.
- The consistency of the stream is observed until the fluid being removed appears to be clear (i.e., NAPL is no longer being removed). At that point, the air flow is discontinued and the volume of collected NAPL is measured and recorded.

The collected NAPL is stored in sealed drums and collected with the NAPL from the accumulation tank at regular intervals by a certified waste hauler.

3. System Performance

The following discussion provides summaries of NAPL recovery and waste management observations during the fifth year of system operation (August 2018 to July 2019), as well as a discussion of the associated maintenance and response activities.

3.1 NAPL Recovery

Monitoring and recovery activities were conducted on an approximate quarterly basis through the year. The results from the monitoring of the automated and gauging wells are discussed below.

3.1.1 Automated Wells

The results from the gauging activities during the system's operation are summarized in Table 3-1. Adjustments to the pumping rates were generally appropriate to contain NAPL within the sumps of the wells. However, experience during the first five years of operation demonstrate that although general trends of the flow of NAPL to a well can be established, there are short-term variabilities in flow and/or minor mechanical issues (e.g. pump screen clogging, tripped fuses) that can challenge the ability to continually maintain a matching pumping rate. Pump duration adjustments are made on an on-going basis when data indicate NAPL thickness is near or above the sump level in the recovery wells.

Approximately 3,462 gallons of mixed fluids were collected from the system during the fifth year of operation (August 1, 2018 through July 31, 2019). An illustration of the cumulative volume of mixed fluids collected over time is provided in Figure 3-1. From startup through July 2019, approximately 22,317 gallons of mixed fluids have been removed by the system based on readings from the level sensor in the recovery tank. Note that the estimates of total recovered volume presented in Table 3-1 (based on in truck volumes listed on the manifests) can vary slightly from the "tank" level sensor estimate due to the variability over time between the level sensor readings and the "in truck" volumes recorded by the waste hauling company. In the past, observation of the relative proportions of organic/water have been highly variable; however, the use of the standardized protocol presented in the Year 2 Report has provided more consistent results. During Year 5 operations, the observed NAPL to water ratio of collected mixed fluids was approximately 60% NAPL. A conservative estimate of the organic/water ratios since system startup indicates that the collected material likely contained over 13,390 gallons of NAPL.

3.1.2 Gauging Wells

The 2015-2019 data from the gauging wells is presented in Table 3-2. As indicated, manual recovery on a quarterly basis is appropriate to maintain DNAPL levels within the sumps. During Year 5 operations, approximately 107 gallons of mixed fluids were recovered from the 13 gauging wells.

Figure 3-2 presents a graphical illustration of the trend in DNAPL thickness in the "gauging" recovery wells during the first five years of operation. As illustrated, thicknesses have generally decreased over time with typical variation. This suggests that the collection system is having a potentially significant effect on reducing the quantity of recoverable DNAPL in the areas where the gauging wells are located.

3.2 Waste Management

The collected NAPL was managed as an alternative fuel at the Tradebe Facility in Cohoes, New York until March of 2017 and more recently at Veolia Technical Solutions Facility in Middlesex, New Jersey. A summary of the waste shipments and associated quantities from both the automated and gauging wells is presented in Table 3-3.

The initial shipments of mixed fluids during Years 1 and 2 were managed as a non-hazardous waste in accordance with NYSDEC Guidance DER-4, "Management of Coal Tar Waste and Coal Tar Contaminated Soils and Sediment". From time to time the results from the analysis of the mixed fluids in

the tank indicated a flash point that we greater than 140° F. Although the results were believed to be the result of inconsistencies in sampling and analysis, shipments after February 5, 2016 during Year 2 operations were conservatively managed as a D001 Ignitable Waste using the RCRA ID number for the Site: NYR 000 225 615. Documentation of the shipments for Year 5 operations are provided in Appendix A.

3.3 System Maintenance

There were no significant maintenance issues with the system during the monitoring period. The following maintenance activities were accomplished during the fifth year of operation:

- Periodic cleaning of the system trailer to remove wood dust generated by Cooper Tank recycling operations.
- Quarterly cleaning of recovery well pump intake screens as needed and replacement of vault lid hardware (latches, hinges, etc.) that get damaged by site operations.
- Repair of the SCADA 3000 programmable logic controller (PLC), which failed on March 8, 2019 causing temporary downtime.

During the current reporting period, the system was on-line 336 days out of a total of 365 days of operation. This reflects an on-line factor of 92%, which is slightly lower than prior years of operation. The 29 days off-line included several days when the tank was at capacity so the system was shut down to accommodate the schedule for tank pump-outs, and the downtime caused by the failed PLC from March 8, 2019 to March 27, 2019.

3.4 Incidents/Unplanned Releases

There were no incidents or unplanned releases during the reporting period.

4. Recommendations for Future Operation

National Grid continues to conduct additional evaluations of recharge rates and the composition of mixed fluids to determine if it will be practical to refine the operation of the system, e.g. transition automated wells to gauging wells, over time.

Starting in June 2014, and continued during various quarterly gauging events, a pilot program was initiated to evaluate the recharge rates for select wells. During the evaluation, NAPL was removed from the well and NAPL thicknesses were monitored periodically over the next 24 hours or longer, with results reported in gallons/day. The results for three wells located along the southern edge of the 252 Maspeth Avenue parcel (RW-18, -19 and -20) and one well along the eastern edge of the 254 Maspeth Avenue parcel (RW-10) are summarized in Figure 4-1. As illustrated, NAPL recharge rates for prior years indicate a decreasing trend, with some expected variability.

During Year 3 operations (AECOM, 2017), National Grid conducted a recharge evaluation to evaluate the possibility that the decreasing recharge rates (above) could be associated with “fouling” of the well screens. The results from the evaluation were presented in the Year 3 Annual Report and demonstrated that significant NAPL recharge was noted in all wells, confirming that recovery well screen fouling is not currently an issue.

Data collected in 2018 and 2019 indicated a continued decrease in NAPL recharge rates in RW-10, -18, -19, and -20 compared to baseline (2014) levels. The evaluation will be continued at these wells and possibly additional wells during Year 6 operations. We also plan to evaluate running the NAPL recovery pumps on a weekly versus daily basis to determine if this improves the NAPL to water collection ratios.

The results of the above actions will be reviewed as part of the next annual report to determine if there is a trend in the rate of NAPL collection and if any modifications to the operation of the system are required.

5. References

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Tables

Table 2-1
Categories of Recovery Wells
Former Equity Works MGP Site, Brooklyn, New York
Primary Recovery Wells (collection rate < 1 gpd)

Well	Location	
RW-2	252 Parcel	on-site
RW-3	252 Parcel	on-site
RW-10	254 Parcel	perimeter
RW-12	254 Parcel	perimeter
RW-13	254 Parcel	perimeter
RW-18	254 Parcel	perimeter
RW-19	254 Parcel	perimeter
RW-20	254 Parcel	perimeter

Secondary Recovery Wells (collection rates 0.1 to 0.5 gpd)

Well	Location	
RW-8	254 Parcel	perimeter
RW-9	254 Parcel	perimeter
RW-11	254 Parcel	perimeter
RW-21	254 Parcel	perimeter
RW-22	222 Parcel	perimeter

Gauging Wells (collection rate < 0.1 gpd)

Well	Location	
RW-1	252 Parcel	on-site
RW-4	252 Parcel	on-site
RW-5	252 Parcel	on-site
RW-6	254 Parcel	perimeter
RW-7	254 Parcel	perimeter
RW-11	254 Parcel	perimeter
RW-14	254 Parcel	perimeter
RW-15	254 Parcel	perimeter
RW-16	254 Parcel	perimeter
RW-17	254 Parcel	perimeter
RW-23	222 Parcel	perimeter
RW-24	222 Parcel	on-site
RW-25	222 Parcel	on-site

Note:

- ¹ Based on data from initial gauging events - May 2013 through February 2014

**Table 3-1
NAPL Monitoring and Recovery - Automated Wells
Former Equity Works MGP Site, Brooklyn, New York**

Location		Depth of Well (ft.)		Typical Pre-Recovery NAPL Thickness (ft.)	NAPL Thickness (ft)																	
Parcel	Well ID	Design	Measured		7/29/2015	10/15/2015	1/15/2016	4/28/2016	7/28/2016	10/17/2016	1/19/2017	4/6/2017	7/26/2017	10/26/2017	1/19/2018	4/5/2018	7/25/2018	11/5/2018	1/30/2019	4/3/2019	8/13/2019	
On-Site	252	RW- 2	51.00	49.70	12	0.06	5.43	8.98	0.55	3.42	0.20	3.33	0.01	6.05	3.62	8.82	1.38	1.52	0.14	6.10	9.55	0.00
		RW- 3	51.00	50.40	14	0.63	4.72	11.74	1.25	3.06	0.50	9.20	6.02	12.04	11.02	13.42	1.11	13.95	10.21	11.33	11.15	0.30
Perimeter	254	RW- 8	48.00	46.72	3	0.06	0.15	1.89	0.98	0.10	2.41	3.63	2.05	0.01	0.01	0.01	0.00	2.71	5.10	5.83	5.42	6.35
		RW- 9	50.00	48.87	6	0.06	1.73	7.32	13.50	7.78	0.10	4.92	6.30	12.30	0.01	0.01	0.00	0.00	0	2	5.25	7.55
		RW- 10	46.00	45.30	11	0.06	6.25	11.44	3.03	0.20	0.05	6.32	6.60	0.95	0.01	0.01	0.00	0.02	0.02	2.72	6.42	7.99
		RW- 11	46.00	45.73	8	---	---	---	---	---	---	---	---	---	---	---	---	0.91	1.41	1.30	0.82	1.05
		RW- 12	46.00	45.48	13	4.01	2.65	10.45	10.60	2.25	10.11	1.20	0.01	2.85	2.65	0.75	4.30	5.60	0.10	0.01	2.55	0.85
	RW- 13	46.00	45.53	12	0.06	0.35	10.51	6.01	0.1	8.08	5.53	6.2	0.01	0.01	0.01	6.95	10.81	0	0	1.52	0.15	
	RW- 18	50.00	47.50	10	8.80	0.10	trace	0.10	0.10	0.05	0.01	0.01	0.01	0.01	0.01	0.01	3.65	0.10	0.01	7.71	0.02	
	RW- 19	52.00	50.18	12	0.06	0.1	7.71	0.15	2.72	0.05	5.56	0.01	6.2	0.01	0.01	0.01	0	0	0	9.68	0.23	
	RW- 20	52.00	50.75	11	9.01	1.8	2.0	1.4	2.2	1.9	2.0	0.0	2.1	2.0	1.2	0.0	1.31	1.45	2.00	10.02	5.55	
	RW- 21	50.00	49.80	5	0.06	0.1	trace	8.65	0.1	5.97	0.01	0	0	0.01	2.12	1.82	3.70	---	2.60	4.01	3.00	
222	RW- 22	46.00	42.95	8	1.88	8.34	0.57	0	0.1	0.1	0.01	1.51	0.01	---	0.01	0.01	0.02	---	---	2.02	0.00	
Recovered Gallons (cumulative from system startup)					4215	5539	7156	9277	11477	12531	14071	15277	16263	16750	17730	18792	19316	19877	21035	21629	23127	
Average Gallons per Day					11.1	12.1	13.1	14.3	15.5	15.3	15.4	15.4	14.8	14.0	13.9	13.9	13.2	12.7	12.7	12.6	12.5	

Notes:

Bold Primary Recovery Wells

--- Not available. At RW-11, pump transferred to RW-22 during 10/3/14 event

RW-11 converted to a Gauging Well

Recovered Gallons (cumulative) is total amount pumped (based on disposal manifests) and does not include correction factor for NAPL to water ratio

Gallons per Day does not include correction factor for NAPL to water ratio

**Table 3-2
NAPL Monitoring and Recovery - Gauging Wells
Former Equity Works MGP Site, Brooklyn, New York**

Location		Depth of Well (ft.)		Typical Pre-Recovery NAPL Thickness (ft.)	NAPL Thickness (feet)													Mixed Fluids Quantity Recovered (gal.)																									
Parcel	Well ID	Design	Measured		7/28/2016	10/17/2016	1/19/2017	4/6/2017	7/26/2017	10/26/2017	1/19/2018	4/5/2018	7/25/2018	11/5/2018	1/30/2019	4/3/2019	8/13/2019	7/28/2016	10/17/2016	1/19/2017	4/6/2017	7/26/2017	10/26/2017	1/19/2018	4/5/2018	7/25/2018	11/5/2018	1/30/2019	4/3/2019	8/13/2019													
On-Site	252	RW- 1	45.00	43.35	3	1.50	0.98	1.55	0.01	1.66	1.02	0.95	1.00	1.52	1.52	0.73	1.11	1.72	5.0	5.0	5.0	0.0	5.0	3.0	3.0	2.0	4.0	4.0	3.0	4.0	3.0												
		RW- 4	51.00	49.91	trace	trace	0.05	0.01	0.01	0.06	0.00	0.01	0.01	0.02	---	0.54	1.15	0.02	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	---	4.0	0.0												
		RW- 5	47.00	44.45	2	1.23	0.05	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.02	---	0.55	0.73	0.00	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	3.0	0.0												
Perimeter	254	RW- 6	47.00	45.72	3	2.91	2.67	3.75	2.55	2.95	3.23	2.85	2.00	2.33	2.71	1.80	1.65	2.55	7.0	7.0	7.0	7.0	7.0	5.0	6.0	4.5	6.0	5.0	3.0	4.5													
		RW- 7	48.00	46.05	1	---	---	---	1.46	0.75	0.01	0.54	1.30	0.60	0.70	0.73	0.72	0.82	---	---	---	0.0	3.0	0.0	2.0	3.0	2.0	3.0	2.0	2.0	3.0												
		RW- 11	46.00	45.73	4	2.25	1.33	2.20	1.22	2.85	1.30	0.80	0.80	0.91	1.41	1.30	0.82	1.05	6.0	3.5	5.0	3.5	4.0	3.0	3.0	4.0	3.5	3.0	4.0	5.0													
		RW- 14	45.00	45.13	trace	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
		RW- 15	45.00	43.72	trace	trace	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
		RW- 16	50.00	49.72	1	---	---	0.56	0.0	0.0	0.0	1.7	1.81	0.02	---	---	0.0	---	---	---	---	0.0	0.0	0.0	0.0	5.0	0.0	0.0	---	---	---												
		RW- 17	48.00	49.60	6	4.42	3.55	3.72	3.20	4.67	4.03	3.14	2.90	4.65	4.83	2.93	2.27	4.22	10.0	6.0	12.0	7.0	9.0	7.0	7.0	6.0	8.0	10.0	5.0	8.0	8.0												
	222	RW- 23	44.00	41.69	2	---	---	---	0.01	0.01	---	---	---	---	---	---	---	---	---	---	---	0.0	0.0	---	0.0	0.0	---	---	---	---	---												
		RW- 24	26.50	25.95	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	0.12	0.00	0.00	0.00	NI	NI	NI	NI	NI	NI	NI	NI	0.0	0.0	0.0	0.0													
		RW- 25	26.25	24.93	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	1.75	0.01	0.11	0.80	NI	NI	NI	NI	NI	NI	NI	NI	3.5	1.0	1.0	5.0													
Total																		33.0	21.5	29.0	17.5	32.0	18.0	20.0	25.0	22.5	30.0	19.0	29.0	28.5													
Cumulative from System Startup																		283.0	304.5	333.5	351.0	383.0	401.0	421.0	446.0	468.5	498.5	517.5	546.5	575.0													

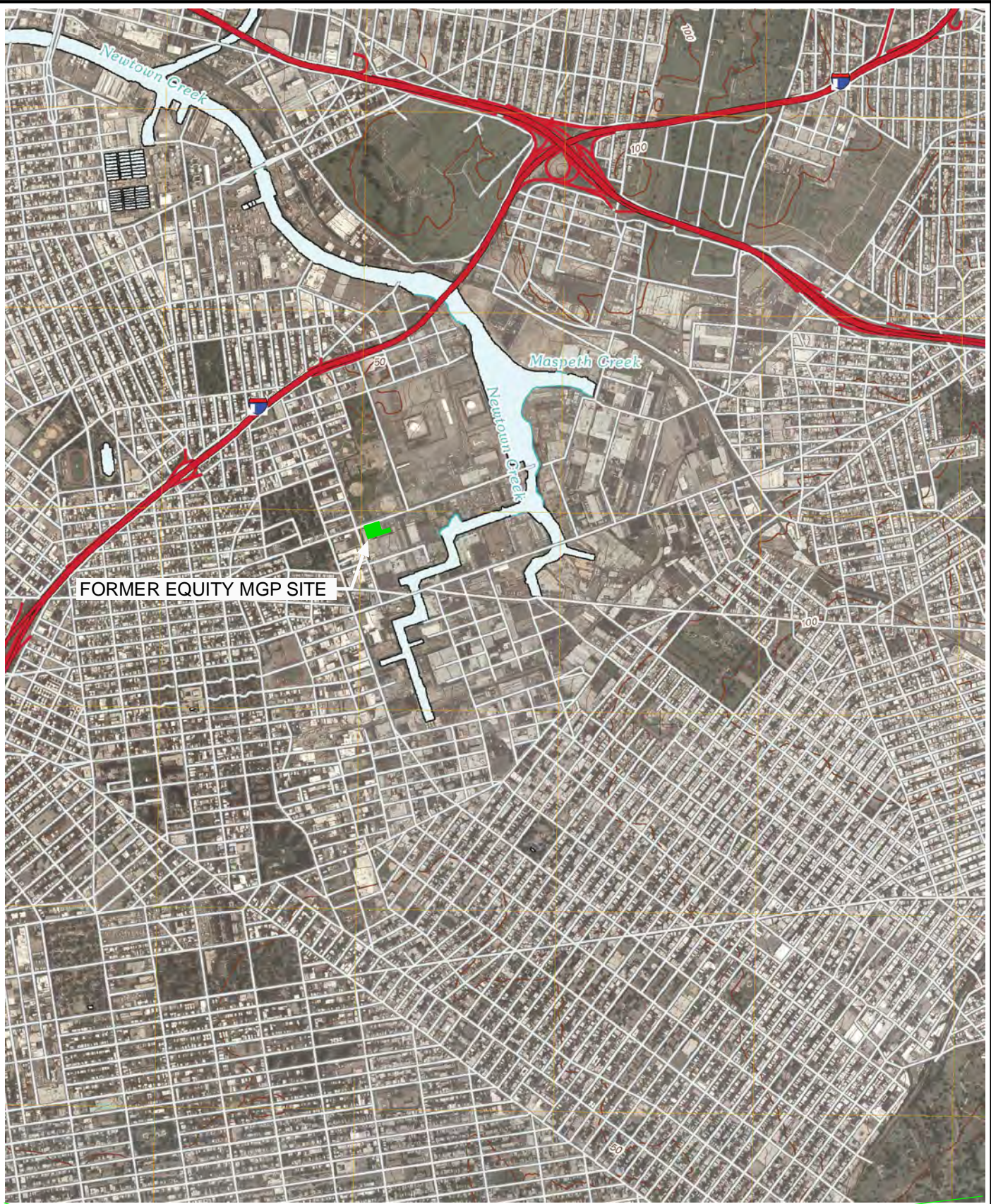
Notes:
 RW-11 converted to a Gauging Well during 10/3/14 event
 No manual gauging and removal during June 2015 due to time/access limitation
 --- = Unable to access due to ongoing Cooper Tank site operations or equipment blocking recovery well that could not be moved
 xt installed

**Table 3-3
Summary of Waste Management
Former Equity Works MGP Site, Brooklyn, New York**

Date	Quantity Shipped (gallons)
6/8/2015	466
6/24/2015	490
7/9/2015	550
7/24/2015	437
8/17/2015	493
9/10/2015	335
9/29/2015	496
10/22/2015	617
11/18/2015	550
12/22/2015	450
2/5/2016	581
2/19/2016	545
3/11/2016	462
4/5/2016	533
5/2/2016	540
5/31/2016	625
6/27/2016	495
7/25/2016	540
9/1/2016	540
10/6/2016	514
11/10/2016	550
12/14/2016	500
1/12/2017	490
3/10/2017	553
4/6/2017	653
5/22/2017	520
7/28/2017	466
9/29/2017	487
11/17/2017	495
12/22/2017	485
2/15/2018	571
4/6/2018	491
6/29/2018	524
8/15/2018	561
11/7/2018	567
12/20/2018	591
2/7/2019	594
5/6/2019	530
6/10/2019	483
7/17/2019	485

Note: Shipments prior to June 2015 not included on table.

Figures



FORMER EQUITY MGP SITE



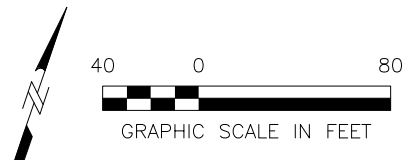
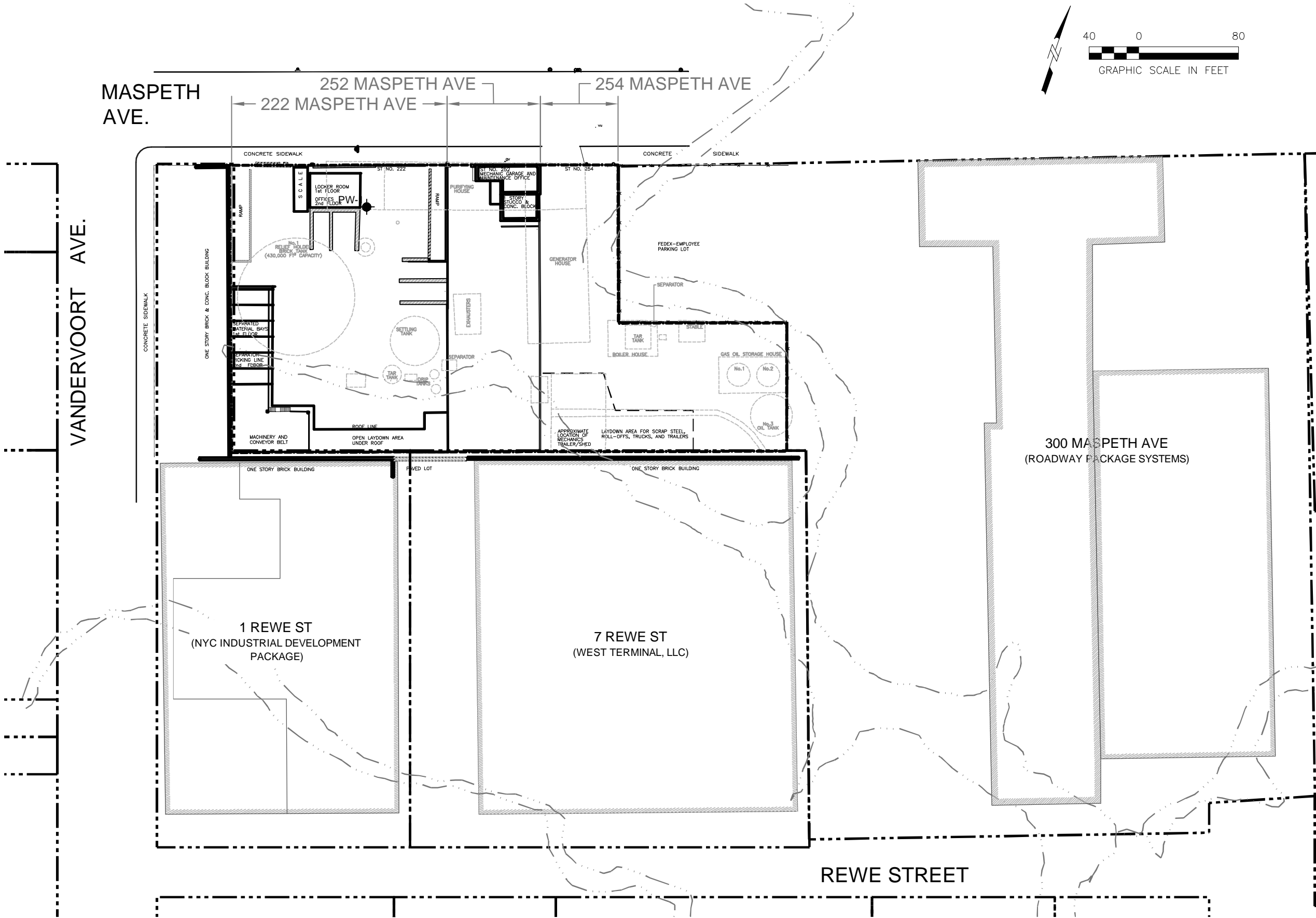
NATIONAL GRID
FORMER EQUITY WORKS MGP SITE,
BROOKLYN NY

SITE LOCATION

DATE: 12/2012

DRWN: BcV/C-MA

FIGURE 1-1



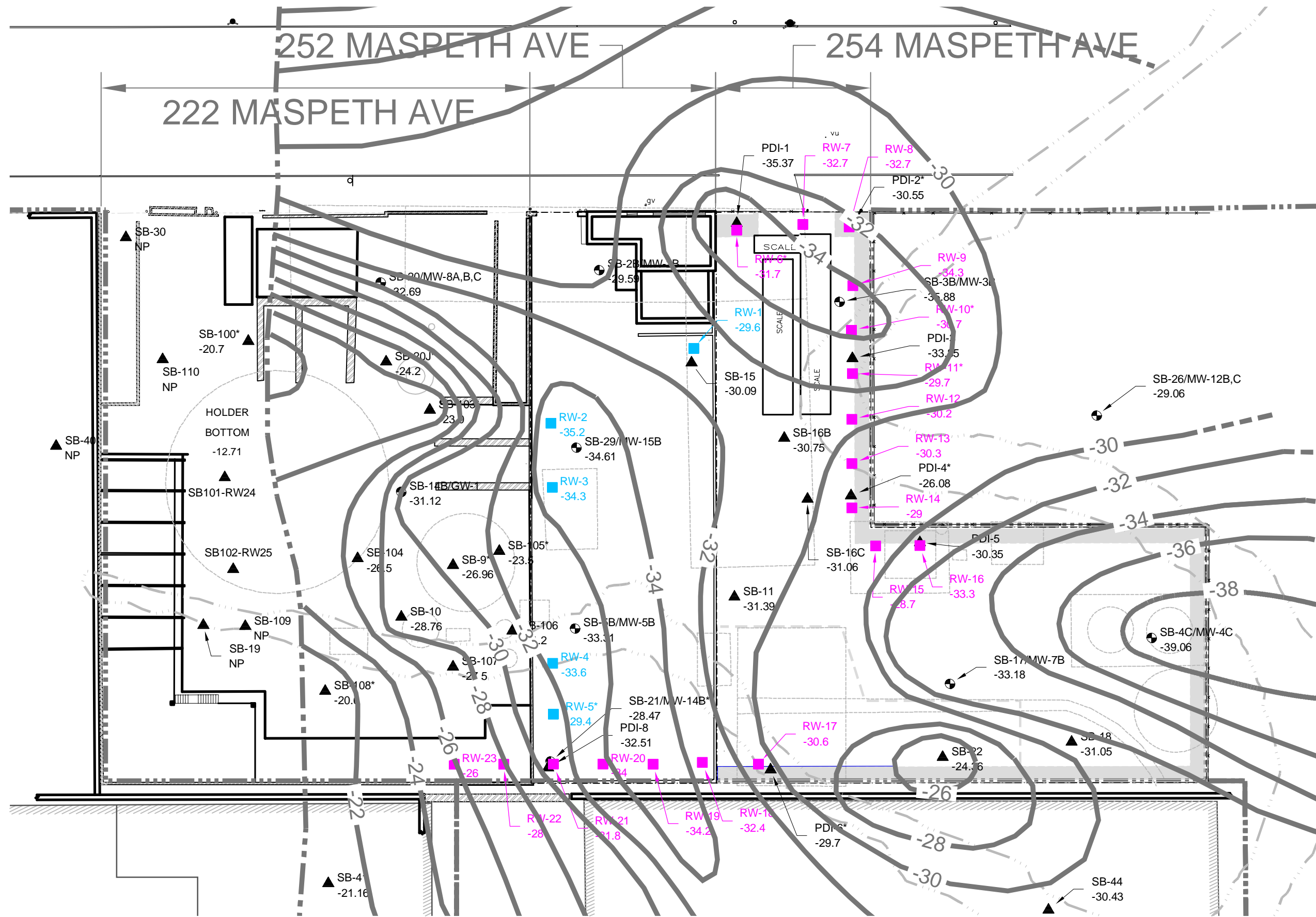
LEGEND:

	PROPERTY LINE
	APPROXIMATE ADJACENT PROPERTY
	ROADWAY EASEMENT
	CURB
	BUILDING WALL
	CONCRETE WALL
	FENCE
	HISTORIC WATERCOURSE
	HISTORIC STRUCTURE
	CURRENT FEATURE

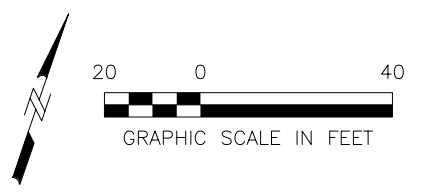


NATIONAL GRID FORMER EQUITY WORKS MGP SITE, BROOKLYN NY 60137362-400		SITE PROPERTIES
DATE: 12/2012	DRWN: BcV/C-MA	FIGURE 1-2

File: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2019\60137362-660_A5.dwg Layout: Layout1 User: Bourdeau Plotted: Sep 19, 2019 - 2:57pm



- LEGEND:**
- PROPERTY LINE
 - APPROXIMATE ADJACENT PROPERTY
 - ROADWAY EASEMENT
 - CURB
 - BUILDING WALL
 - CONCRETE WALL
 - FENCE
 - HISTORIC WATERCOURSE
 - HISTORIC STRUCTURE
 - CURRENT FEATURE
 - SB-4 RI SOIL BORING
 - MW-1 RI MONITORING WELL
 - PDI-1 PDI SOIL BORING
 - RW-1 SITE INTERIOR RECOVERY WELL
 - RW-1 SITE PERIMETER RECOVERY WELLS
 - CLAY SURFACE ELEVATION CONTOUR (FT NAVD 88) DASHED WHERE INFERRED
 - INTERPRETED LIMITS OF INTERMEDIATE CLAY UNIT
 - OBSERVED CLAY ELEVATION (FT NAVD 88)
 - * ELEVATION NOT USED FOR CONTOURING
 - SR SHALLOW REFUSAL
 - NP INTERMEDIATE CLAY NOT PRESENT
 - WALL FOOTER



NATIONAL GRID FORMER EQUITY WORKS MGP SITE, BROOKLYN NY 60137362-350		LOCATIONS OF ON-SITE AND PERIMETER RECOVERY WELLS
DATE: 01/02/19	DRWN: JB	FIGURE 2-1



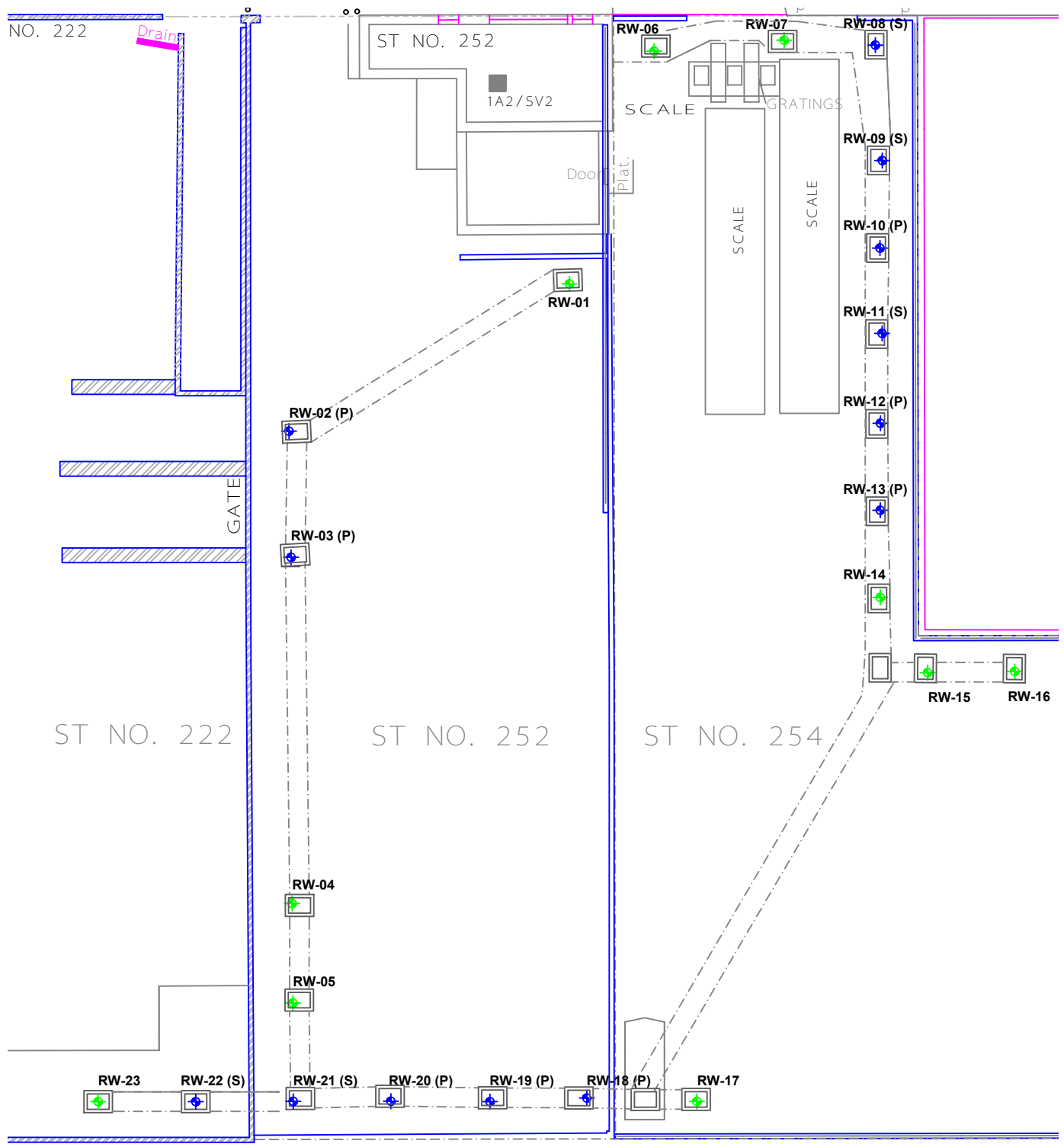


AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE,
BROOKLYN, NY
60137362.660

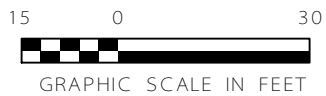
COMPLETED WELL
LOCATION

Figure 2-2



LEGEND

- RW-02 (P) AUTOMATED WELLS - PRIMARY (APPROX. COLLECTION RATE > 1 GPD)
- RW-08 (S) AUTOMATED WELLS - SECONDARY (APPROX. COLLECTION RATE 0.5-0.1 GPD)
- RW-01 GAUGING WELLS (APPROX. COLLECTION RATE < 0.1GPD)



NATIONAL GRID FORMER EQUITY WORKS MGP SITE, BROOKLYN NY 60137362.660		LOCATION OF AUTOMATED WELLS
DATE: 10/30/2013	DRWN: BcV/C-MA	FIGURE 2-3



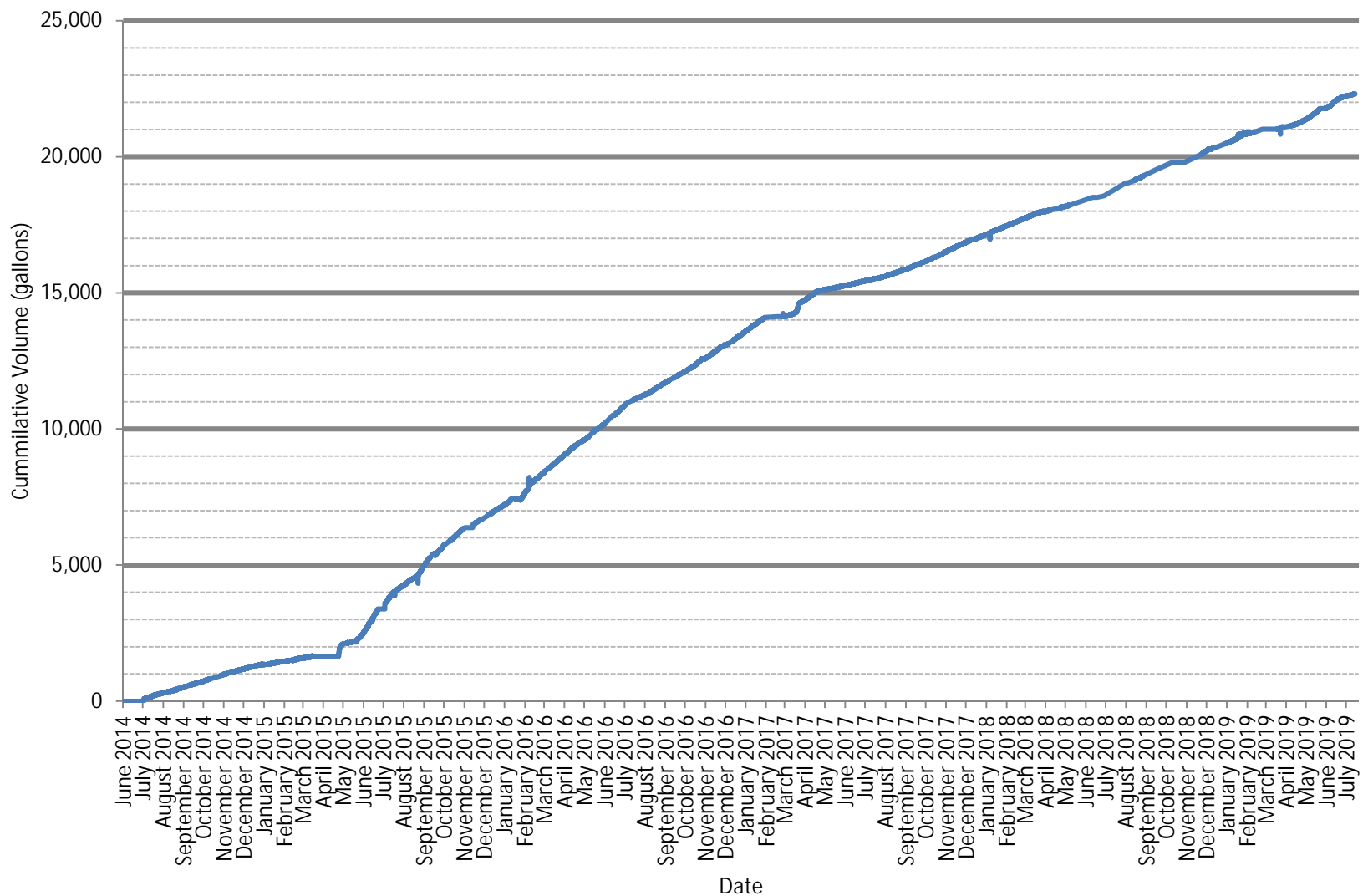
AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE,
BROOKLYN, NY
60137362.660

CONTROL TRAILER

Figure 2-4

**Figure 3-1
Cumulative Volume of Mixed Fluids Collected
IRM for NAPL Recovery
Former Equity Works MGP Site**



Note: Mixed Fluids are estimated to contain 55% NAPL

Figure 3-2
NAPL Thickness Versus Time - Gauging Wells
Former Equity Works MGP Site, Brooklyn, New York

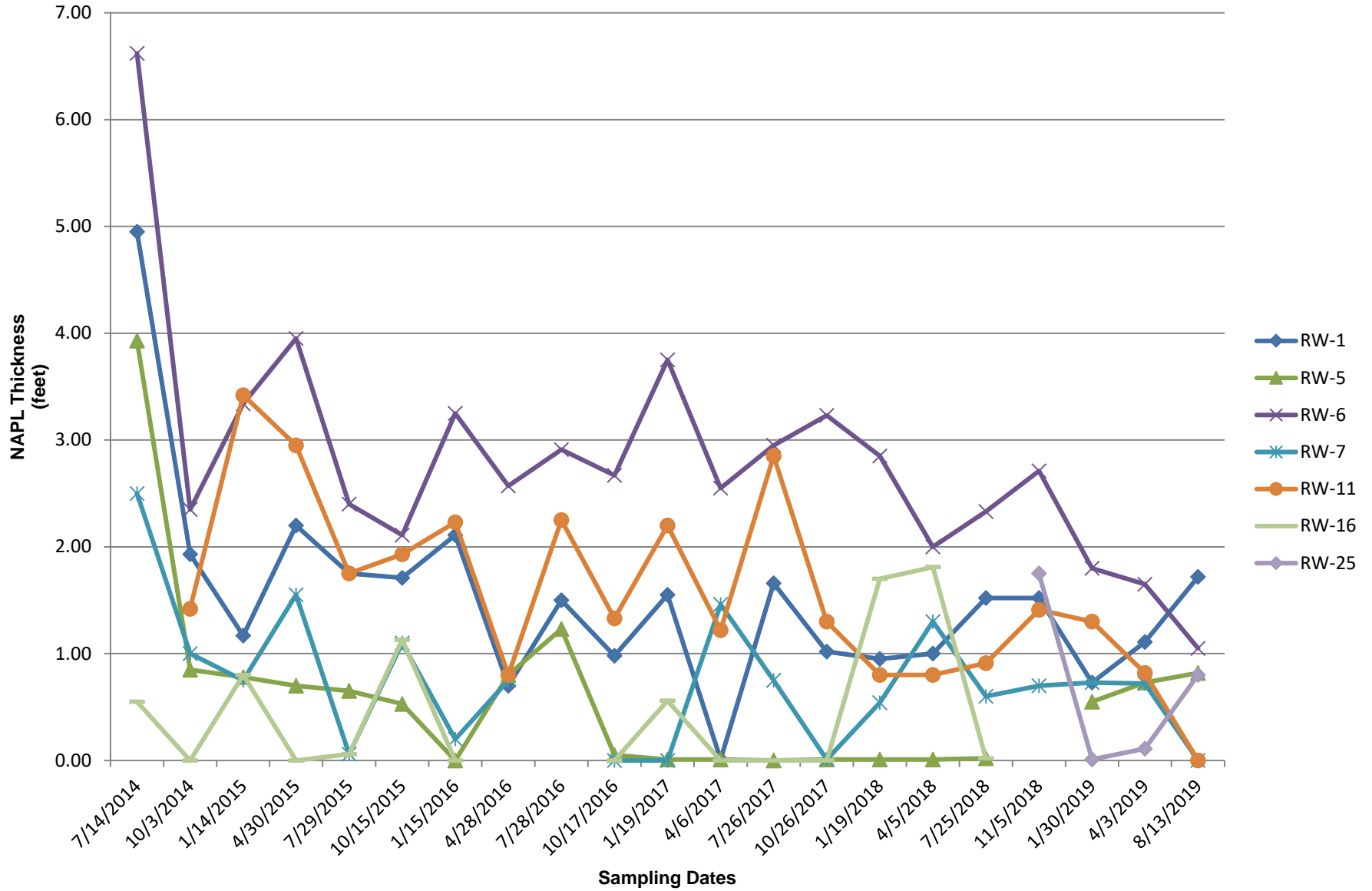
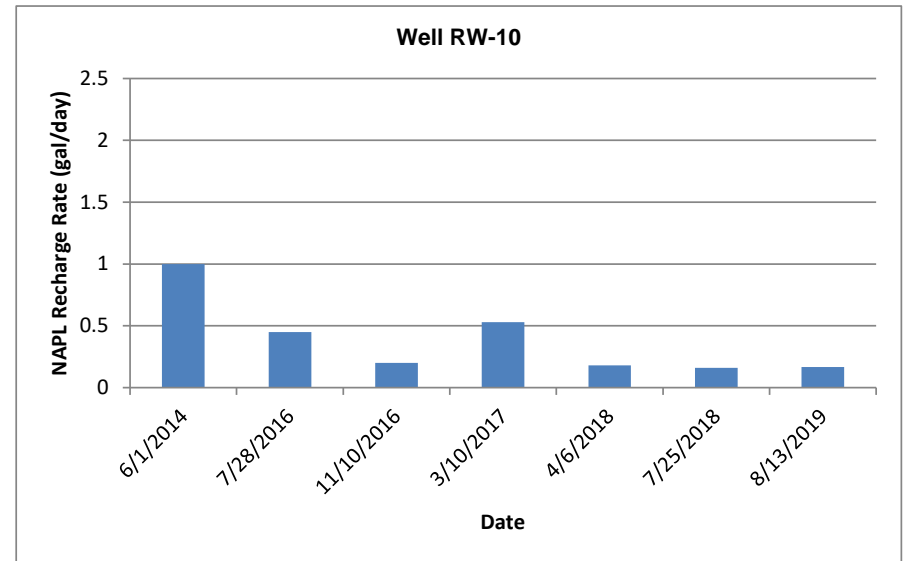
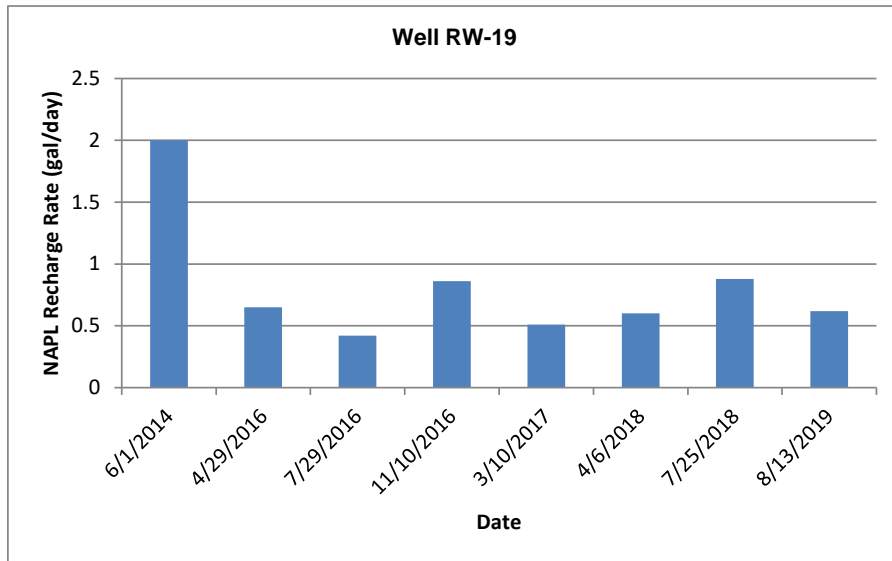
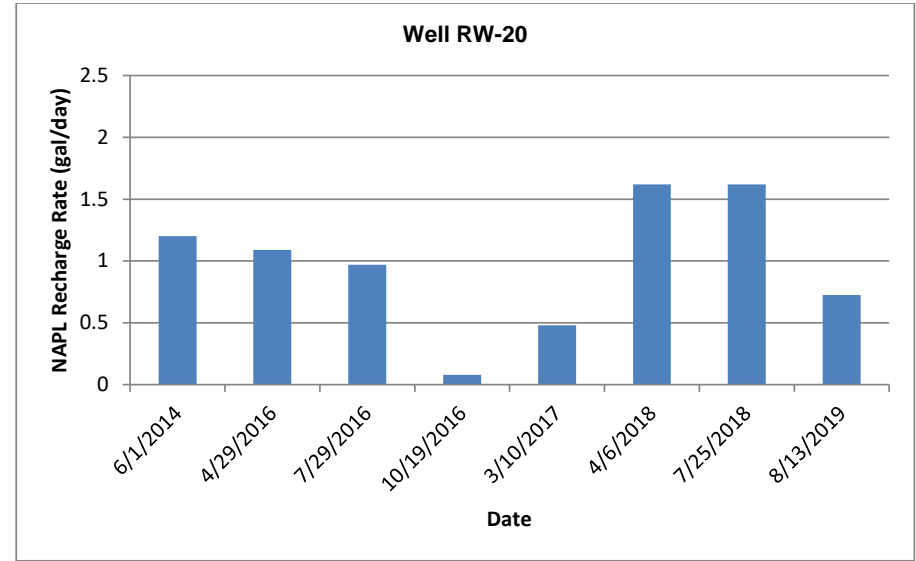
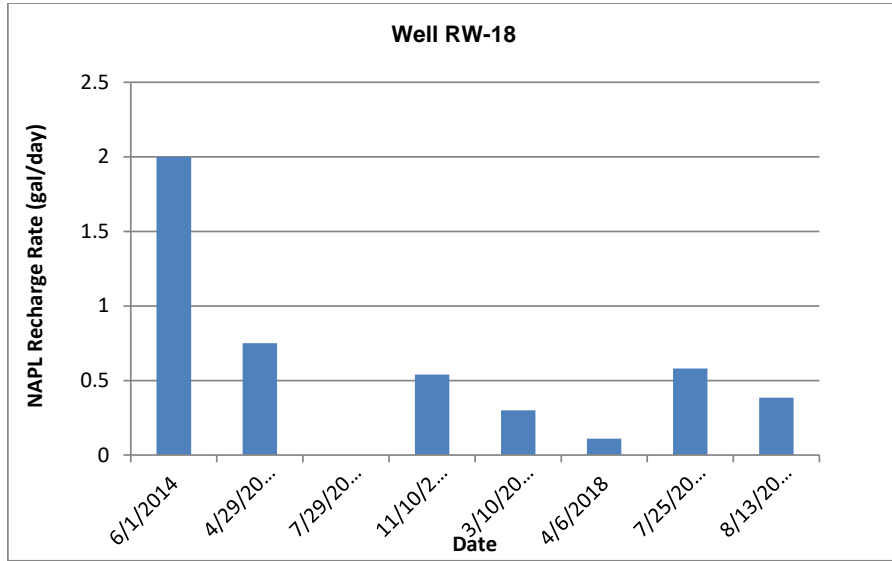


Figure 4-1
NAPL Recharge Rates Versus Time - Automated Wells
Former Equity Works MGP Site, Brooklyn, New York



Appendix A Waste Disposal Documentation

August 15, 2016 Manifest

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYR000721614	2. Page 1 of 1	3. Emergency Response Phone (772) 918-0067	4. Manifest Tracking Number 001314692 VES		
5. Generator's Name and Mailing Address EQUITY WORKS MGP SITE 175 E. OLD COUNTRY ROAD WICKSVILLE, NY 11801 Generator's Phone: 516 545 2526		Generator's Site Address (if different than mailing address) 254 MASPETH AVE BROOKLYN, NY 11211					
6. Transporter 1 Company Name ENVIRON. TRANSPORT GROUP INC				U.S. EPA ID Number NJ D 0 0 0 6 9 2 0 6 1			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address VEOLIA EE TECHNICAL SOLUTIONS 125 FACTORY LANE MIDDLETOWN, NJ 08846 Facility's Phone: 732 469-5100				U.S. EPA ID Number NJ D 0 0 2 4 5 4 5 4 4			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3, II, RQ (D001, D018)	1	TT	573	0	D003	B
	2.					D018	
	3.						
	4.						
14. Special Handling Instructions and Additional Information HR Service Contracted by VERTE + Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. + D WIP 101578/ MARBULES (COAL TAR CONTAMINATED WATER) ACTUAL GALLONS RECEIVED: _____							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Megan Dasek agent for International				Signature Megan Dasek agent for International		Month Day Year 08 15 18	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name James Blinnelli				Signature James Blinnelli		Month Day Year 08 15 18	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	



Land Disposal Restriction Notification Form

Generator Name EQUITY WORKS MGP SITE

EPA ID Number NYR000225015

Manifest 001314692VES

This notice is being provided in accordance with 40 CFR 268.7 to inform you that this shipment contains waste restricted from land disposal by the USEPA under the land disposal restriction program. Identified below for each container is the designation of the waste as a wastewater or non-wastewater, the Clean Water Act (CWA) permit status associated with the treatment/disposal facility, applicable waste codes and any corresponding subcategories, list of any F001-F005 solvent constituents that are present in the waste, and any underlying hazardous constituents (UHC) that are present.

This notice is also being provided in accordance with 6 NYCRR 376.1(g)(1).

Container Number: HN-3118092000-001 (1/ 1)

WIP / Approval Code:	101578 / MARBULK5
Form Designation / CWA Status:	Non-Wastewater / Non-CWA
Waste Codes (Subcategories):	D001 (IGNITABLE CHARACTERISTIC WASTE, LIQUIDS >= 10% TOC PER 261.2 1(a)(1)), D018
Constituents (F001 - F005):	None
UHCs Present:	NAPHTHALENE (CRUDE OR REFINED), TOLUENE
Treatment Requirements	Restricted waste requires treatment to applicable standards.
Additional Notices:	

I hereby certify that all information in this and associated land disposal restriction documents is complete and accurate to the best of my knowledge and information.

Signature *Megan D. ...*

Title agent for National Grid

Date 8/15/18



PACKING SUMMARY

Generator Number: 640920
 EQUITY WORKS MGP SITE
 254 MASPETH AVE
 BROOKLYN, NY 11211

Manifest Number: 001314692VES
 Field System ID: HN
 Work Order Number: 3118092000
 Date Shipped: 08/15/2018

Attn:
 EPA ID: NYR000225615

Container#: HN-3118092000-001 Waste Area: Manifest Page/Line: 01 / 1

WIP: 101578 Disposal Code: MARBULK5 PHY State: L

Date Accumulated: 08/15/2018 Gen Drum ID:

Shipping Name: UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3, II, RQ (D001,D018)

No. of Commons: 01 Outer Container: TANKER-TT Inner Container:

Primary Waste Codes: D001,D018,B PCB Serial #: OOS Date: / /

Total Cmns Wt: 5000 SIC: 1389 Source: G49 Form: W606 System: H061 Cubic Ft.: 625.00

Individual Common Weights: 1 @ 5000 (GALLONS)

Units	Container Size	Net Weight	Chemical Name	EPA/State Codes
1	TANKTR		BENZENE [21000B] NAPHTHALENE [57000B] TOLUENE [12000B] COAL TAR CONTAMINATED WATER [95%] MAY CONTAIN SOME COAL TAR SOLIDS [5%]	D001, D018, B



Activity Report

JOB NO: 3118092000
BILL DOC NO HN19191532
GENERATOR NO 640920

WO NO: 3118092000
EPA ID: NYR000225615

BILL TO: NATIONAL GRID
175 E OLD COUNTRY RD
HICKSVILLE, NY 118014257
(516) 545-2255

JOB SITE: EQUITY WORKS MGP SITE
254 MASPETH AVE
BROOKLYN, NY 11211
(516) 545-2586

CONTACT: JOSEPH ODIERNA

CONTACT: WILLIAM RYAN, PROJECT MANAGE

MANIFEST NUMBER(S):
001314692VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		08/15/2018	N05

DESCRIPTION	# CONT.	CONT./CODE	QTY	UOM	PG/LN	WASTE AREA
Manifest # 001314692VES WIP 101578 / Approval MARBULK5 COAL TAR CONTAMINATED WATER	1	TANKER-TT		G	1 / 1	

08/15/2018 Misc. - STATE REGULATORY FEES 4419 1 EACH
(EACH)
MANIFEST FEE

--

Total Hours: 0
of Containers: 1

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.



CUSTOMER Verde

PO# _____

DROP

SPOT: _____
Date Time

DRIVER: _____ TRACTOR#: _____ TRAILER#: _____

FACILITY NAME _____ ADDRESS _____

TIME IN: _____ TIME OUT: _____

COMMENTS: _____

DRIVER RELEASED FROM DUTY TIME: _____ CUSTOMER INITIAL: _____

PRINT: _____ SIGNATURE: _____

DUMP BOX VAN TANK ROLL OFF

ROLLOFF#: _____

LINER: _____

MANIFEST#: 00134699

SPOT CHARGE: \$ _____

PRELOAD CHARGE: \$ _____

PICK-UP

PICK UP: 8:15 AM 09/20
Date Time

DRIVER: _____ TRACTOR#: 205 TRAILER#: 17907

FACILITY NAME _____ ADDRESS _____

TIME IN: 9:00 AM TIME OUT: 9:00 AM

COMMENTS: _____

DRIVER RELEASED FROM DUTY TIME: _____ CUSTOMER INITIAL: _____

PRINT: Meghan D'Ascoti SIGNATURE: Meghan D'Ascoti

RENTAL:

_____ @ \$ _____ = \$ _____
of Days Per Day

PICK/UP DEMURRAGE:

_____ @ \$ _____ = \$ _____
of Hrs. Per Hr.

INT. STOP CHARGE: \$ _____

**INTERMEDIATE/
SITE WORK**

INT./SITE WORK: _____
Date Time

DRIVER: _____ TRACTOR#: _____ TRAILER#: _____

FACILITY NAME _____ ADDRESS _____

TIME IN: _____ TIME OUT: _____

COMMENTS: _____

DRIVER RELEASED FROM DUTY TIME: _____ CUSTOMER INITIAL: _____

PRINT: _____ SIGNATURE: _____

INTERMEDIATE/SITE WORK:

_____ @ \$ _____ = \$ _____
of Hrs. Per Hr.

UNLOAD DEMURRAGE:

_____ @ \$ _____ = \$ _____
of Hrs. Per Hr.

LINER: \$ _____

TANK WASH: \$ _____

_____ TONS @ \$ _____ = \$ _____

_____ LOADS @ \$ _____ = \$ _____

LINE HAUL RATE: \$ _____

F/S _____ % = \$ _____

PERMITS: \$ _____

TOLLS: \$ _____

INVOICE TOTAL: \$ _____

UNLOAD

UNLOAD: 8:15 AM 09/20
Date Time

DRIVER: _____ TRACTOR#: _____ TRAILER#: _____

FACILITY NAME _____ ADDRESS _____

TIME IN: _____ TIME OUT: _____

COMMENTS: _____

DRIVER RELEASED FROM DUTY TIME: _____ CUSTOMER INITIAL: _____

PRINT: _____ SIGNATURE: _____

November 7, 2018 Manifest



233183

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYR000225615	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0067	4. Manifest Tracking Number 001494506 VES			
5. Generator's Name and Mailing Address JOE CORDERNA EQUITY WORKS MGP SITE 175 E. OLD COUNTRY ROAD HICKSVILLE, NY 11801 Generator's Phone: 516 545-2588		Generator's Site Address (if different than mailing address) 254 MASPETH AVE BROOKLYN, NY 11211						
6. Transporter 1 Company Name ENVIRON. TRANSPORT GROUP INC.					U.S. EPA ID Number NJD000692061			
7. Transporter 2 Company Name					U.S. EPA ID Number			
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS 125 FACTORY LANE MIDDLETOWN, NJ 08846 Facility's Phone: 732 469-5100		U.S. EPA ID Number NJD002454544						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes		
		No.	Type					
		X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLIUM DISTILLATES), 3, II, RQ (D001, D018)	1	TT	567 611	G	D001 B D018
		2.						
		3.						
4.								
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTB + Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf + 1) WIP 101578 - MARBULKS - MIXED NAPL IMPACTED GROUND WATER - ACTUAL GALLONS RECEIVED: <u>567</u>								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Officer's Printed/Typed Name Brian Bermingham		Signature 			Month Day Year 11 10 18			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name James Bianculli Signature Month Day Year 11 07 18 Transporter 2 Printed/Typed Name Signature Month Day Year								
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____								
18b. Alternate Facility (or Generator) Facility's Phone: _____					U.S. EPA ID Number			
18c. Signature of Alternate Facility (or Generator)					Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. M4061		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name April Watkins Signature Month Day Year 11 17 18								

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

December 20, 2018 Manifest



Activity Report

JOB NO: 3196266000
BILL DOC NO JS81217578
GENERATOR NO 640920

WO NO: 3196266000
EPA ID: NYR000225615

BILL TO: NATIONAL GRID
175 E OLD COUNTRY RD
HICKSVILLE, NY 118014257
(516) 545-2255

JOB SITE: EQUITY WORKS MGP SITE
254 MASPETH AVE
BROOKLYN, NY 11211
(516) 545-2586

CONTACT: JOSEPH ODIERNA

CONTACT: WILLIAM RYAN, PROJECT MANAGE

MANIFEST NUMBER(S):
001494560VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		12/20/2018	N05

DESCRIPTION	# CONT.	CONT CODE	QTY	UOM	PG/LN	WASTE AREA
Manifest # 001494560VES WIP 101578 / Approval MARBULK5 MIXED NAPL IMPACTED GROUND WATER	1	VACTRU-TT	391	G	1 / 1	

--	--	--	--	--	--	--

Total Hours: 0
of Containers: 1

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.

Activity Report

JOB NO: 3196266000
 BILL DOC NO JS81217578
 GENERATOR NO 640920

WO NO: 3196266000
 EPA ID: NYR000225615

BILL TO: NATIONAL GRID
 175 E OLD COUNTRY RD
 HICKSVILLE, NY 118014257
 (516) 545-2255

JOB SITE: EQUITY WORKS MGP SITE
 254 MASPETH AVE
 BROOKLYN, NY 11211
 (516) 545-2586

CONTACT: JOSEPH ODIERNA

CONTACT: WILLIAM RYAN, PROJECT MANAGE

MANIFEST NUMBER(S):
 001494560VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		12/20/2018	N05

Comments:

PICK UP IS SCHEDULED FOR 1:00 PM ON THURSDAY, DECEMBER 20TH. DELIVERY INTO VEOLIA MIDDLESEX IS SCHEDULED FOR 6:30 PM SAME DAY.

Signature: Megan Dascoli

Print Name: Megan Dascoli

Customer authorizes Contractor to make changes on Customer's behalf in regards to transporters used and to perform the Services, including adding or changing transporters listed on manifests. If Customer provides an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Contractor shall select only those transporters on that list when providing transportation services to Customer. If Customer does not provide an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Customer authorizes Contractor to select any permitted transporter to provide transportation services to Customer.

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.



PACKING SUMMARY

Generator Number: 640920
 EQUITY WORKS MGP SITE
 254 MASPETH AVE
 BROOKLYN, NY 11211

Manifest Number: 001494560VES
 Field System ID: JS
 Work Order Number: 3196266000
 Date Shipped: 12/20/2018

Attn:
 EPA ID: NYR000225615

Container#: JS-3196266000-001 Waste Area: Manifest Page/Line: 01 / 1

WIP: 101678 DisposalCode: MARBULK5 PHV State: L

Date Accumulated: 12/20/2018 Gen Drum ID:

Shipping Name: UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3, II, RQ
 (D001,D018)

No. of Commons: 01 Outer Container: VACTRU-TT Inner Container:

Primary Waste Codes: D001,D018,B PCB Serial #: OOS Date: / /

Total Crms Wt: 5000 SIC: 1389 Source: G49 Form: W606 System: H061 Cubic Ft.: 625.00

Individual Common Weights: 1 @ 5000 (GALLONS)

Units	Container Size	Net Weight	Chemical Name	EPA/State Codes
1	TANKTR		BENZENE [21000B] NAPHTHALENE [57000B] TOLUENE [12000B] NAPL IMPACTED WATER [95%] MAY CONTAIN NAPL SOLIDS [5%]	D001, D018, B



Land Disposal Restriction Notification Form

Generator Name EQUITY WORKS MGP SITE

EPA ID Number NYR000225815

Manifest 001494580VES

This notice is being provided in accordance with 40 CFR 268.7 to inform you that this shipment contains waste restricted from land disposal by the USEPA under the land disposal restriction program. Identified below for each container is the designation of the waste as a wastewater or non-wastewater, the Clean Water Act (CWA) permit status associated with the treatment/disposal facility, applicable waste codes and any corresponding subcategories, list of any F001-F005 solvent constituents that are present in the waste, and any underlying hazardous constituents (UHC) that are present.

This notice is also being provided in accordance with 6 NYCRR 376.1(g)(1).

Container Number: **JS-3198268000-001 (1/ 1)**

WIP / Approval Code:	101578 / MARBULK5
Form Designation / CWA Status:	Non-Wastewater / Non-CWA
Waste Codes (Subcategories):	D001 (IGNITABLE CHARACTERISTIC WASTE, LIQUIDS >= 10% TOC PER 261.2 1(a)(1)), D018
Constituents (F001 - F005):	None
UHCs Present:	NAPHTHALENE (CRUDE OR REFINED), TOLUENE
Treatment Requirements:	Restricted waste requires treatment to applicable standards.
Additional Notices:	

I hereby certify that all information in this and associated land disposal restriction documents is complete and accurate to the best of my knowledge and information.

Signature *Myron Dorval - agent for*
National Grid
Title *agent for* Date *12/2/18*
National Grid

Please print or type.

Form Approved. OMB No. 2050-0039

2356411

GENERATOR	UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYR000225615	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Manifest Tracking Number 001494560 VES				
	5. Generator's Name and Mailing Address JOE ODIERNA EQUITY WORKS MGP SITE 175 E. OLD COUNTRY ROAD HICKSVILLE, NY 11801 Generator's Phone: 516 545-2586				Generator's Site Address (if different than mailing address) 254 MARPETH AVE BROOKLYN, NY 11211					
TRANSPORTER	6. Transporter 1 Company Name ENVIRON. TRANSPORT GROUP INC				U.S. EPA ID Number NJ D 0 0 0 6 9 2 0 6 1					
	7. Transporter 2 Company Name				U.S. EPA ID Number					
DESIGNATED FACILITY	8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS 125 FACTORY LANE MIDDLESSEX, NJ 08846				U.S. EPA ID Number NJ D 0 0 2 4 5 4 5 4 4					
	Facility's Phone: 732 469-5100									
9a. HM		9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
X		1. UN1993, WASH FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3, II, EQ (D001, D018)			1 T T		591	G	D001	B
		2.							D018	
		3.								
		4.								
14. Special Handling Instructions and Additional Information HR. Service Contracted by VENTS - Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. + D) WIP 101578 - MIXED NAPL IMPACTED GROUND WATER - MARBULK5 ** ACTUAL GALLONS RECEIVED: 591 ** 172										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offeror's Printed/Typed Name: Megan Dascoli: agent for National Grid Signature: Megan Dascoli Month: 12 Day: 20 Year: 18										
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:										
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Ray Florica Signature: Month: 12 Day: 20 Year: 18 Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:										
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month: Day: Year:										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H1061 2. 3. 4.										
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: April Wiatkowski Signature: Month: 12 Day: 20 Year: 18										

Veolia Environmental Services

125 Factory Lane Middlesex, NJ 08846

(732) 469-5100

Weigh Ticket

Date Scheduled: 12/20/2018 19:00:00
Customer Name: EQUITY WORKS MGP SITE
Transporter: ENVIRONMENTAL TRANSPORT GROUP,INC.
Trailer #: 172

Weigh Ticket #: 206476
Order Number: 233984
OrderType: WR
Weighing Tractor: YT6

General Notes

Type	Weight	U of M	Date	Capture Type	Specific Weighing Notes
Gross	37,700	Lb	12/20/18 6:36 pm	Electronic	
Tare	33,000	Lb	12/20/18 8:22 pm	Electronic	

Net: 4,700.00 Lb

February 7, 2019 Manifest



2 36834

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYR000225615	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Manifest Tracking Number 001495867 VES		
5. Generator's Name and Mailing Address JOE ODIERNA EQUITY WORKS MGP SITE 175 E. OLD COUNTRY ROAD HICKSVILLE, NY 11801 Generator's Phone: 516 545-2586			Generator's Site Address (if different than mailing address) 254 MASPETH AVE BROOKLYN, NY 11211				
6. Transporter 1 Company Name ENVIRON. TRANSPORT GROUP INC.			U.S. EPA ID Number NJ D 0 0 0 6 9 2 0 6 1				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS 125 FACTORY LANE MIDDLESEX, NJ 08846 Facility's Phone: 732 469-5100			U.S. EPA ID Number NJ D 0 0 2 4 5 4 5 4 4				
9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s. (BENZENE, PETROLEUM DISTILLATES), 3, II, RQ (D001, D018)		I T T		615	G	D001 B D018
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS - Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. - 1) WIP 101578 MIXED NAPL IMPACTED GROUND WATER - MARBULK5 Actual Gallons Rec'd: 594 Trlr 412							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Megan Dascoli agent for National Grid			Signature Megan Dascoli agent for National Grid		Month 02	Day 07	Year 19
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Rich Subian Signature _____ Month Day Year 02 07 19 Transporter 2 Printed/Typed Name Signature _____ Month Day Year							
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number _____ 18b. Alternate Facility (or Generator) U.S. EPA ID Number _____ Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator) _____ Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H061 2. 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Donna Buro Signature _____ Month Day Year 02 07 19							

GENERATOR

TRANSPORTER INTL

DESIGNATED FACILITY

<u>Date</u>	<u>Code Nbr</u>	<u>SampleNbr</u>	<u>Broker</u>	<u>Generator</u>	<u>Ship To</u>
2/7/2019	S160-7242	19038-00053	VEOLIA ES TECHNICAL SOLUTIONS, LLC	EQUITY WORKS MGP SITE	

<u>OP #</u>	<u>Ord# -</u>	<u>LR#</u>	<u>Fuel Lot#</u>	<u>Still Run</u>	<u>Source Tank</u>	<u>Dest.</u>	<u>Gals</u>
	236834				412	T-221	615 gal

2/7/2019 2:14:19 PM SKAWAGUCHI
VERY HEAVY.

CHARACTERISTICS

Test Method	ASIS S160-7242
SP GR	1.07
Color	D/BRN
H2O solubil	20
KF%	63.76
pH	7.15
BTU/#	5933
BTU/gal	52863.03
Lbs/gal	8.91
Ash	0
Cl%	0.17
Peroxide ppm	0

METALS			
Name	Code	PPM	Msg

DISTILLATION

--

DISCLAIMER - THIS IS A VEOLIA ES TECHNICAL SOLUTIONS, L.L.C. INTERNAL DOCUMENT ONLY. THESE ARE PRELIMINARY LAB RESULTS AND MAY NOT HAVE BEEN REVIEWED OR CONFIRMED.

<u>Date</u>	<u>Code Nbr</u>	<u>SampleNbr</u>	<u>Broker</u>	<u>Generator</u>	<u>Ship To</u>				
2/7/2019	S160-7242	19038-00053	VEOLIA ES TECHNICAL SOLUTIONS, LLC	EQUITY WORKS MGP SITE					
<u>OP #</u>	<u>Ord# -</u>	<u>LR#</u>	<u>Fuel Lot#</u>	<u>Still Run</u>	<u>Source Tank</u>	<u>Dest.</u>	<u>S160</u>	<u>615 gal</u>	<u>Gals</u>
	236834				412	T-221			615 / B

COMPOSITION

Chemical

<u>Weight %</u>	<u>Volume %</u>	<u>Normalized Weight %</u>

<u>PCBs</u>	<u>Code</u>	<u>PPM</u>	<u>Msg</u>
<u>PCB</u>			



Activity Report

JOB NO: 3224383000
BILL DOC NO JS09796870
GENERATOR NO 640920

WO NO: 3224383000
EPA ID: NYR000225615

BILL TO: NATIONAL GRID
175 E OLD COUNTRY RD
HICKSVILLE, NY 118014257
(516) 545-2255

JOB SITE: EQUITY WORKS MGP SITE
254 MASPETH AVE
BROOKLYN, NY 11211
(516) 545-2586

CONTACT: JOSEPH ODIERNA

CONTACT: WILLIAM RYAN, PROJECT MANAGE

MANIFEST NUMBER(S):
001495867VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE				TERR.
		02/07/2019				N05
DESCRIPTION	# CONT.	CONT./CODE	QTY	UOM	PG/LN	WASTE AREA
Manifest # 001495867VES WIP 101578 / Approval MARBULK5 MIXED NAPL IMPACTED GROUND WATER	1	VACTRU-TT		G	1 / 1	

Total Hours: 0
of Containers: 1

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.

Activity Report

JOB NO: 3224383000 WO NO: 3224383000
BILL DOC NO JS09796870 EPA ID: NYR000225615
GENERATOR NO 640920

BILL TO: NATIONAL GRID
175 E OLD COUNTRY RD
HICKSVILLE, NY 118014257
(516) 545-2255

JOB SITE: EQUITY WORKS MGP SITE
254 MASPETH AVE
BROOKLYN, NY 11211
(516) 545-2586

CONTACT: JOSEPH ODIERNA

CONTACT: WILLIAM RYAN, PROJECT MANAGE

MANIFEST NUMBER(S):
001495867VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		02/07/2019	N05

Comments:

BE ON-SITE @ 7 AM - SITE CONTACT: MEGAN DASCOLI, AECOM - CELL PHONE # 908-623-0145 / DELIVER LOAD TO VEOLIA, MIDDLESEX @ 1:30 PM

Signature: Megan Dascoli, agent for National Grid

Print Name: Megan Dascoli

Customer authorizes Contractor to make changes on Customer's behalf in regards to transporters used and to perform the Services, including adding or changing transporters listed on manifests. If Customer provides an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Contractor shall select only those transporters on that list when providing transportation services to Customer. If Customer does not provide an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Customer authorizes Contractor to select any permitted transporter to provide transportation services to Customer.

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.



PACKING SUMMARY

Generator Number: 640920
 EQUITY WORKS MGP SITE
 254 MASPETH AVE
 BROOKLYN, NY 11211

Manifest Number: 001495867VES
 Field System ID: JS
 Work Order Number: 3224383000
 Date Shipped: 02/07/2019

Attn:
 EPA ID: NYR000225615

Container#: JS-3224383000-001 Waste Area: Manifest Page/Line: 01 / 1

WIP: 101578 DisposalCode: MARBULK5 PHY State: L

Date Accumulated: 02/07/2019 Gen Drum ID:

Shipping Name: UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3, II, RO (D001,D018)

No. of Commons: 01 Outer Container: VACTRU-TT Inner Container:

Primary Waste Codes: D001,D018,B PCB Serial #: OOS Date: / /

Total Cmns Wt: 5000 SIC: 1389 Source: G49 Form: W606 System: H061 Cubic Ft.: 625.00

Individual Common Weights: 1 @ 5000 (GALLONS)

Units	Container Size	Net Weight	Chemical Name	EPA/State Codes
1	TANKTR		BENZENE [21000B] NAPHTHALENE [57000B] TOLUENE [12000B] NAPL IMPACTED WATER [95%] MAY CONTAIN NAPL SOLIDS [5%]	D001, D018, B

Veolia Environmental Services

125 Factory Lane Middlesex, NJ 08846
(732) 469-5100

Weigh Ticket

Date Scheduled: 02/07/2019 13:30:00
Customer Name: EQUITY WORKS MGP SITE
Transporter: ENVIRONMENTAL TRANSPORT GROUP, INC.
Trailer #: 412

Weigh Ticket #: 206640
Order Number: 236834
OrderType: WR
Weighing Tractor: YT7

General Notes

Type	Weight	U of M	Date	Time	Capture Type	Specific Weighing Notes
Gross	38,080	Lb	2/7/19	2:00 pm	Electronic	
Tare	32,780	Lb	2/7/19	2:33 pm	Electronic	

Net: 5,300.00 Lb

May 6, 2019 Manifest



Activity Report

JOB NO: 3277583000
BILL DOC NO JS09499373
GENERATOR NO 640920

WO NO: 3277583000
EPA ID: NYR006225615

BILL TO: NATIONAL GRID
175 E OLD COUNTRY RD
HICKSVILLE, NY 11801-4257
(908) 623-0145

JOB SITE: EQUITY WORKS MGP SITE
254 MASPETH AVE
BROOKLYN, NY 11211
(908) 623-0145

CONTACT: MEGAN DASCOLI

CONTACT: MEGAN DASCOLI

MANIFEST NUMBER(S):
001714542VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		05/06/2019	N05

DESCRIPTION	# CONT.	CONT. CODE	QTY	UOM	PG/LN	WASTE AREA
Manifest # 001714542VES WIP 101578 / Approval MARBULKS MIXED NAPL IMPACTED GROUND WATER	1	VACTRU-TT		G	1 / 1	

Total Hours: 0
of Containers: 1

Comments:

Signature: Megan Dascoli

Print Name: Megan Dascoli agent for National Grid

Customer authorizes Contractor to make changes on Customer's behalf in regards to transporters used and to perform Services, including adding or changing transporters listed on manifests. If Customer provides an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Contractor shall select only those transporters on that list when providing transportation services to Customer. If Customer does not provide an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Customer authorizes Contractor to select any permitted transporter to provide transportation services to Customer.

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.



PACKING SUMMARY

Generator Number: 640920
 EQUITY WORKS MGP SITE
 254 MASPETH AVE
 BROOKLYN, NY 11211

Manifest Number: 001714542VES
 Field System ID: JS
 Work Order Number: 3277583000
 Date Shipped: 05/06/2019

Alt#:
 EPA ID: NYR000225615

Container#: JS-3277583000-001 Waste Area: Manifest Page/Line: 01 / 1
 WIP: 101578 Disposal Code: MARBULK5 PHY State: L
 Date Accumulated: 05/06/2019 Gen Drum ID:
 Shipping Name: UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3, II, RO
 (D001,D018)
 No. of Commons: 01 Outer Container: VACTRU-TT Inner Container:
 Primary Waste Codes: D001,D018,B PCB Serial #: OOS Date: / /
 Total Crns Wt: 5000 SIC: 1389 Source: G49 Form: W606 System: H051 Cubic Ft: 625.00
 Individual Common Weights: 1 @ 5000 (GALLONS)

Units	Container Size	Net Weight	Chemical Name	EPA/State Codes
1	TANKTR		BENZENE [21000B] NAPHTHALENE [57000B] TOLUENE [12000B] NAPL IMPACTED WATER [95%] MAY CONTAIN NAPL SOLIDS [5%]	D001, D018, B

404



238488

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYR000225615	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0037	4. Manifest Tracking Number 001714542 VES		
5. Generator's Name and Mailing Address EQUITY WORKS MGP SITE 175 E. OLD COUNTRY ROAD HICKSVILLE, NY 11801 Generator's Phone: 516 545-2586		JOE ODIERNA Generator's Site Address (if different than mailing address) 254 MASPETH AVE BROOKLYN, NY 11211-0000					
6. Transporter 1 Company Name ENVIRON. TRANSPORT GROUP INC.				U.S. EPA ID Number NJ D 0 0 0 6 9 2 0 6 1			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS 125 FACTORY LANE MIDDLESEX, NJ 08846 Facility's Phone: 732 469-5100				U.S. EPA ID Number NJ D 0 0 2 4 5 4 5 4 4			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3, II, RQ (D001, D018)	1	T T	530	G	D001 B D018
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS -/- Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. -/- I) W: 101578; A: MARBULK5; MIXED NAPL IMPACTED GROUND WATER							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name: Megan Dascoli, agent for National Grid Signature: Megan Dascoli Month Day Year: 03 06 19							
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: James Banuli Signature: James Banuli Month Day Year: 05 06 19 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month Day Year: _____						
DESIGNATED FACILITY	18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____						
	18b. Alternate Facility (or Generator) Facility's Phone: _____				U.S. EPA ID Number		
	18c. Signature of Alternate Facility (or Generator) Month Day Year: _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H001		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Dina Brown Signature: Dina Brown Month Day Year: 05 16 19							

Date 5/6/2019 **Code Nbr** S160-7242 **SampleNbr** 19126-00065 **Broker** VEOLIA ES TECHNICAL SOLUTIONS, LLC **Generator** EQUITY WORKS MGP SITE **Ship To**
OP # **Ord# -** 238488 **LR#** **Fuel Lot#** **Still Run** **Source Tank** 404 **Dest.** T-221 S160 530 gal **Gals** 530 / B

CHARACTERISTICS	
Test Method	ASIS S160-7242
SP GR	1.06
Color	D/BRN
H2O solubil	16
KF%	24.19
pH	6.98
BTU/#	12129
BTU/gal	107099.07
Lbs/gal	8.83
Ash	0
Cl%	0.13
Peroxide ppm	0

METALS			
Name	Code	PPM	Msg

DISTILLATION

DISCLAIMER - THIS IS A VEOLIA ES TECHNICAL SOLUTIONS, L.L.C. INTERNAL DOCUMENT ONLY. THESE ARE PRELIMINARY LAB RESULTS AND MAY NOT HAVE BEEN REVIEWED OR CONFIRMED.

<u>Date</u>	<u>Code Nbr</u>	<u>SampleNbr</u>	<u>Broker</u>	<u>Generator</u>	<u>Ship To</u>
5/6/2019	S160-7242	19126-00065	VEOLIA ES TECHNICAL SOLUTIONS, LLC	EQUITY WORKS MGP SITE	

<u>OP #</u>	<u>Ord# -</u>	<u>LR#</u>	<u>Fuel Lot#</u>	<u>Still Run</u>	<u>Source Tank</u>	<u>Dest.</u>		<u>Gals</u>
	238488				404	T-221	S160	530 gal 530 / B

COMPOSITION			
<u>Chemical</u>	<u>Weight %</u>	<u>Volume %</u>	<u>Normalized Weight %</u>

<u>PCBs</u>	<u>Code</u>	<u>PPM</u>	<u>Msg</u>

Veolia Environmental Services

125 Factory Lane Middlesex, NJ 08846

(732) 469-5100

Weigh Ticket

Date Scheduled: 05/06/2019 13:30:00

Customer Name: EQUITY WORKS MGP SITE

Transporter: ENVIRONMENTAL TRANSPORT GROUP, INC.

Trailer #: 404

Weigh Ticket #: 207043

Order Number: 238488

OrderType: WR

Weighing Tractor: YT7

General Notes

Type	Weight	U of M	Date	Capture Type	Specific Weighing Notes
Gross	35,700	Lb	5/6/19 1:28 pm	Electronic	
Tare	30,940	Lb	5/6/19 2:19 pm	Electronic	
Net:	4,760.00	Lb			

June 10, 2019 Manifest

239173
Form Approved. OMB No. 2050-0039

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYP 000 233615	2. Page 1 of 1	3. Emergency Response Phone (877) 819-0087	4. Manifest Tracking Number 001714584 VES			
5. Generator's Name and Mailing Address EQUITY WORKS MGP SITE 173 E. OLD COUNTRY ROAD HICKSVILLE, NY 11801 Generator's Phone: 516-545-2586		IOE ODIERNA		Generator's Site Address (if different than mailing address) 254 MASPETH AVE BROOKLYN, NY 11211 TT 610209				
6. Transporter 1 Company Name ENVIRON TRANSPORT GROUP INC		U.S. EPA ID Number NJ D 0 0 0 6 9 2 0 6 1						
7. Transporter 2 Company Name		U.S. EPA ID Number						
8. Designated Facility Name and Site Address VEOLIA EB TECHNICAL SOLUTIONS 125 FACTORY LANE MIDDLESEX, NJ 08846 Facility's Phone: 732-458-5100		U.S. EPA ID Number NJ D 0 0 2 4 5 4 5 4 4						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3, II, RQ (D001, D018)	1		483	G	D001	B
		2.					D018	
		3.						
		4.						
14. Special Handling Instructions and Additional Information HR Service Contracted by VESTS + Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. + U/W: 101578; A; MARBULK; MIXED NAPL IMPACTED GROUND WATER								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name Daniel Kuter as agent National		Signature <i>[Signature]</i>		Month Day Year 10 10 19				
TRANSPORTER INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:					
	17. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name Samir Bhandari		Signature <i>[Signature]</i>		Month Day Year 10 10 19			
Transporter 2 Printed/Typed Name		Signature		Month Day Year				
DESIGNATED FACILITY	18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: 3.000							
	18b. Alternate Facility (or Generator) Facility's Phone:		U.S. EPA ID Number					
	18c. Signature of Alternate Facility (or Generator)						Month Day Year	
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. 41061 2. 3. 105 4. 7660							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Apr. 1 4/1/19 MS Signature: <i>[Signature]</i> Month Day Year: 10 10 19								

Veolia Environmental Services

125 Factory Lane Middlesex, NJ 08846
(732) 469-5100

Weigh Ticket

Date Scheduled: 06/10/2019 16:00:00
Customer Name: EQUITY WORKS MGP SITE
Transporter: ENVIRONMENTAL TRANSPORT GROUP, INC.
Trailer #: 195

Weigh Ticket #: 207193
Order Number: 239173
OrderType: WR
Weighing Tractor: YT7

General Notes

Type	Weight	U of M	Date	Capture Type	Specific Weighing Notes
Gross	37,060	Lb	6/10/19 6:23 pm	Electronic	
Tare	32,940	Lb	6/10/19 7:08 pm	Electronic	
Net:	4,120.00	Lb			

QC Report

Location

6/11/2019

1

<u>Date</u>	<u>Code Nbr</u>	<u>SampleNbr</u>	<u>Broker</u>	<u>Generator</u>	<u>Ship To</u>				
6/10/2019	S160-7242	19161-00075	VEOLIA ES TECHNICAL SOLUTIONS, LLC	EQUITY WORKS MGP SITE					
<u>OP #</u>	<u>Ord# -</u>	<u>LR#</u>	<u>Fuel Lot#</u>	<u>Still Run</u>	<u>Source Tank</u>	<u>Dest.</u>	<u>PPM</u>	<u>Ship To</u>	<u>Gals</u>
	239173				195	T-215	S160	483 gal	483 / B

CHARACTERISTICS

Test Method	ASIS S160-7242
SP GR	1.041
Color	black
H2O solubil	0
KF%	25.43
pH	4.13
BTU/#	13991
BTU/gal	121301.97
Lbs/gal	8.67
Cl%	0.8
Peroxide ppm	0

METALS			
Name	Code	PPM	Msg

DISTILLATION

DISCLAIMER - THIS IS A VEOLIA ES TECHNICAL SOLUTIONS, L.L.C. INTERNAL DOCUMENT ONLY. THESE ARE PRELIMINARY LAB RESULTS AND MAY NOT HAVE BEEN REVIEWED OR CONFIRMED.

QC Report

Location

6/11/2017

4

<u>Date</u> 6/10/2019	<u>Code Nbr</u> S160-7242	<u>SampleNbr</u> 19161-00075	<u>Broker</u> VEOLIA ES TECHNICAL SOLUTIONS, LLC		<u>Generator</u> EQUITY WORKS MGP SITE	<u>Ship To</u>			
<u>OP #</u>	<u>Ord# -</u> 239173	<u>LR#</u>	<u>Fuel Lot#</u>	<u>Still Run</u>	<u>Source Tank</u> 195	<u>Dest.</u> T-215	S160	483 gal	<u>Gals</u> 483 / B

COMPOSITION			
<u>Chemical</u>	<u>Weight %</u>	<u>Volume %</u>	<u>Normalized Weight %</u>

<u>PCBs</u>	<u>Code</u>	<u>PPM</u>	<u>Msg</u>

DISCLAIMER - THIS IS A VEOLIA ES TECHNICAL SOLUTIONS, L.L.C. INTERNAL DOCUMENT ONLY. THESE ARE PRELIMINARY LAB RESULTS AND MAY NOT HAVE BEEN REVIEWED OR CONFIRMED.



Activity Report

JOB NO: 3298776000 WO NO: 3298776000
 BILL DOC NO JS09394894 EPA ID: NYR000225615
 GENERATOR NO 640920

BILL TO: NATIONAL GRID
 175 E OLD COUNTRY RD
 HICKSVILLE, NY 11801-4257
 (516) 545-2255

JOB SITE: EQUITY WORKS MGP SITE
 254 MASPETH AVE
 BROOKLYN, NY 11211
 (516) 545-2586

CONTACT: JOSEPH ODIERNA

CONTACT: WILLIAM RYAN, PROJECT MANAGE

MANIFEST NUMBER(S):
 001714584VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE				TERR
		06/18/2019				N05
DESCRIPTION	# CONT.	CONT./CODE	QTY	UOM	PG./LN	WASTE AREA
Manifest # 001714584VES WP 101578 / Approval MARBULK5 MIXED NAPL IMPACTED GROUND WATER	1	VACTRU-11		G	1 / 1	

Total Hours: 0
 # of Containers: 1

Comments:

Signature: _____

Print Name: _____

Customer authorizes Contractor to make changes on Customer's behalf in regards to transporters used and to perform Services, including adding or changing transporters listed on manifests. If Customer provides an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Contractor shall select only those transporters on the list when providing transportation services to Customer. If Customer does not provide an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Customer authorizes Contractor to select any permitted transporter to provide transportation services to Customer.

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.

July 17, 2019 Manifest

239648

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYR000225615	2. Page 1 of (total pages) 1	3. Emergency Response Phone (277) 818-0087	4. Manifest Tracking Number 001714630 VES				
5. Generator's Name and Mailing Address JOE ODIERNA EQUITY WORKS MGP SITE 175 E. OLD COUNTRY ROAD HICKSVILLE, NY. 11801 Generator's Phone: 516 545 2586		Generator's Site Address (if different than mailing address) 254 MASPETH AVE BROOKLYN, NY. 11211-0000							
6. Transporter 1 Company Name ENVIRON. TRANSPORT GROUP INC.		U.S. EPA ID Number NJ D 0 0 0 6 9 2 0 6 1							
7. Transporter 2 Company Name		U.S. EPA ID Number							
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS 125 FACTORY LANE MIDDLESEX, NJ 08846 Facility's Phone: 732 469-5100		U.S. EPA ID Number NJ D 0 0 2 4 5 4 5 4 4							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3, II, RQ (D001, D018)	No.	Type	485	G	D001	B	
		2.					D018		
		3.							
		4.							
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS - Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf - 1) W: 101578 A-MARBULK'S MIXED NAPL IMPACTED GROUNDWATER ACTUAL GALLONS RECEIVED: 556									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable International and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name Gregg Rickett on behalf of National Grid			Signature			Month Day Year 10/17/19			
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials								
	Transporter 1 Printed/Typed Name DAVE DELMAN			Signature			Month Day Year 10/17/19		
Transporter 2 Printed/Typed Name			Signature			Month Day Year			
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: 1 70.00 700000								
	18b. Alternate Facility (or Generator)						U.S. EPA ID Number		
	Facility's Phone:								
	18c. Signature of Alternate Facility (or Generator)						Month Day Year 3 30		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H061		2.		3.		4. 9200			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a.									
Printed/Typed Name Dinner Burre			Signature			Month Day Year 10/17/19			

Veolia Environmental Services

125 Factory Lane Middlesex, NJ 08846
(732) 469-5100

Weigh Ticket

Date Scheduled: 07/17/2019 13:30:00
Customer Name: EQUITY WORKS MGP SITE
Transporter: ENVIRONMENTAL TRANSPORT GROUP, INC.
Trailer #: 195

Weigh Ticket #: 207327
Order Number: 239648
OrderType: WR
Weighing Tractor: YT6

General Notes

Type	Weight	U of M	Date	Capture Type	Specific Weighing Notes
Gross	37,060	Lb	7/17/19 2:03 pm	Electronic	
Tare	36,860	Lb	7/17/19 2:52 pm	Manual	manually recorded

Net: 200.00 Lb

<u>Date</u>	<u>Code Nbr</u>	<u>SampleNbr</u>	<u>Broker</u>	<u>Generator</u>	<u>Ship To</u>		
7/17/2019	S130-7105 S160-7242	19198-00052	VEOLIA ES TECHNICAL SOLUTIONS, LLC	EQUITY WORKS MGP SITE			
<u>OP #</u>	<u>Ord# -</u>	<u>LR#</u>	<u>Fuel Lot#</u>	<u>Still Run</u>	<u>Source Tank</u>	<u>Dest.</u>	<u>Gals</u>
	239648				195	T-213 T-222	219 gal 267 gal
						S130 S160	485 / B

CHARACTERISTICS		
Test Method	BOT : 55.00% S160-7242	TOP : 45.00% S130-7105
SP GR	1.071	1.012
Color	BLACK	HAZY
H2O solubil	0	100
KF%	15.32	96.07
NVR		0.22
pH	5.97	7.99
BTU/#	11845	
BTU/gal	105657.40	
Lbs/gal	8.92	8.43
Ash	0	
Cl%	0.38	
Peroxide ppm	0	0

METALS			
Name	Code	PPM	Msg

Date	Code Nbr	SampleNbr	Broker	Generator	Location	Ship To	
7/17/2019	S130-7105 S160-7242	19198-00052	VEOLIA ES TECHNICAL SOLUTIONS, LLC	EQUITY WORKS MGP SITE			
OP #	Ord# -	LR#	Fuel Lot#	Still Run	Source Tank	Dest.	Gals
	239648				195	T-213 T-222	219 gal 267 gal
						S130 S160	485 / B

DISTILLATION

COMPOSITION

Chemical	Weight %	Volume %	Normalized Weight %

PCBs

PCB	Code	PPM	Msg



PACKING SUMMARY

Generator Number: 640920
 EQUITY WORKS MGP SITE
 254 MASPETH AVE
 BROOKLYN, NY 11211

Manifest Number: 001714630VES
 Field System ID: JS
 Work Order Number: 3318727000
 Date Shipped: 07/17/2019

Attn:
 EPA ID: NYR000225615

Container#: JS-3318727000-001	Waste Area:	Manifest Page/Line: 01 / 1		
WIP: 101578	DisposalCode: MARBULK5	PHY State: L		
Date Accumulated: 07/17/2019		Gen Drum ID:		
Shipping Name: UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3, II, RQ (D001,D018)				
No. of Commons: 01	Outer Container: VACTRU-TT	Inner Container:		
Primary Waste Codes: D001,D018,B	PCB Serial #:	COS Date: / /		
Total Cmns Wt: 5000	SIC: 1389	Source: G49		
		Form: W606		
		System: H061		
		Cubic Ft.: 625.00		
Individual Common Weights: 1 @ 5000 (GALLONS)				
<u>Units</u>	<u>Container Size</u>	<u>Net Weight</u>	<u>Chemical Name</u>	<u>EPA/State Codes</u>
1	TANKTR		BENZENE [21000B] NAPHTHALENE [57000B] TOLUENE [12000B] NAPL IMPACTED WATER [95%] MAY CONTAIN NAPL SOLIDS [5%]	D001, D018, B



Activity Report

JOB NO: 3318727000
BILL DOC NO JS09291704
GENERATOR NO 640920

WO NO: 3318727000
EPA ID: NYR000225615

BILL TO: NATIONAL GRID
175 E OLD COUNTRY RD
HICKSVILLE, NY 11801-4257
(516) 545-2255

JOB SITE: EQUITY WORKS MGP SITE
254 MASPETH AVE
BROOKLYN, NY 11211
(908) 623-0145

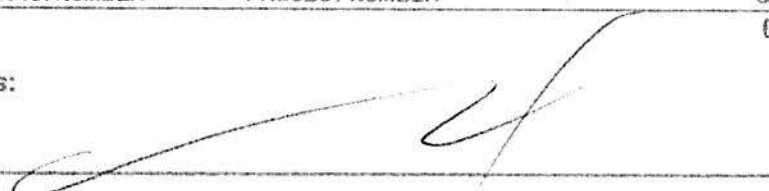
CONTACT: JOSEPH ODIERNA

CONTACT: MEGAN DASCOLI

MANIFEST NUMBER(S):
001714630VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		07/17/2019	N05

Comments:

Signature: 

Print Name: Grickert on Behalf of National Grid

Customer authorizes Contractor to make changes on Customer's behalf in regards to transporters used and to perform Services, including adding or changing transporters listed on manifests. If Customer provides an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Contractor shall select only those transporters on that list when providing transportation services to Customer. If Customer does not provide an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Customer authorizes Contractor to select any permitted transporter to provide transportation services to Customer.

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