AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Manhattan, NY
60137362
May 2015

Completion Report
Interim Remedial Measure for NAPL Recovery

Former Equity Works MGP Site
Brooklyn, New York
NYSDEC Site No.: 224050
Order on Consent Index #: A2-0552-0606

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Manhattan, NY
60137362
May 2015

Completion Report
Interim Remedial Measure for NAPL Recovery

Former Equity Works MGP Site
Brooklyn, New York
NYSDEC Site No.: 224050
Order on Consent Index #: A2-0552-0606

Prepared by Mark McCabe, Program Manager

Reviewed By Mike Gardner, Sr. Engineer

Reviewed by Peter S. Cox, Project Manager

Engineering Certification

I, Michael J. Gardner, certify that I am currently a NYS registered professional engineer and that this Interim Remedial Measure for NAPL Completion Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance (DER-10).

Respectfully submitted,

AECOM, Inc.

Michael Gardner

Michael J. Gardner
Registered Professional Engineer
New York License No. 089344

5/20/15
Date

Contents

List of Appendices

List of Tables

List of Figures

Acronyms

BUG	Brooklyn Union Gas Company
CAMP	Community Air Monitoring Plan
EEA	EEA Inc.
ESA	Environmental Site Assessment
ESI	Environmental Subsurface Investigation
FDNY	Fire Department of New York
ft	Feet
ft bgs	Feet Below Ground Surface
ft^2	Square Feet
GFE	Gannett Fleming Environmental
gpd	Gallon Per Day
gpm	Gallons Per Minute
HASP	Health and Safety Plan
IRM	Interim Remedial Measure
mg/m^3	Milligrams Per Cubic Meter
MGP	Manufactured Gas Plant
NAPL	Non-Aqueous Phase Liquid
NYCRR 6	New York Codes, Rules and Regulations Chapter 6
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCBs	Polychlorinated Biphenyls
PDI	Pre-Design Investigation
PM10	Respirable Particulate Matter that is 10 micrometers or smaller
PPE	Personal Protection Equipment
ppmv	Parts Per Million By Volume
PVC	Polyvinyl Chloride
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
SVOCs	Semivolatile Organic Compounds
TCLP	Toxicity Characteristic Leaching Procedure
TOC	Top Of Casing
TPH	Total Petroleum Hydrocarbons
TVOC	Total Volatile Organic Compounds
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds

Executive Summary

National Grid's consultant, AECOM, has prepared this Interim Remedial Measure (IRM) Completion Report to document the installation of a NAPL recovery system within the footprint of the former Equity Works Manufactured Gas Plant (MGP) site (the Site) located at 254 Maspeth Avenue in Brooklyn, New York. The IRM, as well as environmental investigation and other associated remedial activities, are being conducted pursuant to a Multi-site Order on Consent and Administrative Settlement, Index # A2-0552-0606, between The Brooklyn Union Gas Company (BUG), now d/b/a National Grid NY, and the New York State Department of Environmental Conservation (NYSDEC).

The site is located in a historically industrialized area. The Site was operated as a MGP from approximately 1893 to 1929. BUG 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 is used by Cooper Tank as a solid waste recycling facility, with the 252 and 254 parcels used to support Cooper Tank's recycling operations.

Cooper Tank has been issued a NYSDEC Part 360 Permit for the expansion of active recycling operations on the 252 and 254 Maspeth Avenue properties. Conditions of that permit require the construction of a perimeter wall around open areas of the 254 Maspeth property and the installation of a concrete pad with a storm water collection system across the entire surface of the 252 and 254 Maspeth Avenue properties. Since the installation of the wall and concrete pad would significantly limit access to subsurface areas of the Site, NYSDEC requested that National Grid conduct an IRM to control potential migration of non-aqueous phase liquid (NAPL) while a final site remedy is developed through the DER 10 process. The IRM activities included the following:

- installation of 5 NAPL 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.
- on-going measurement and recovery of NAPL that collects in the recovery wells.

It should be noted that NAPL recovery is not performed at all recovery wells due to either the absence of NAPL or the limited thickness of NAPL within the collection sump of certain recovery wells. All recovery wells were installed during the period of March 3 to April 10, 2013. All locations had a common design (6 inch diameter, 5 and 10 foot stainless screens, 5 foot long sump to retain collected NAPL) and were equipped with the infrastructure to support automated recovery, if required. Eleven manual monitoring events were conducted during the period when Cooper Tank was designing and completing the installation of the concrete pad on the 254 Maspeth Avenue property (May 2013 to February, 2014). NAPL was collected during these events and managed at a permitted off-site facility as an alternative fuel in accordance with NYSDEC DER-4, "Management of Coal Tar Waste and Coal Tar Contaminated Soils and Sediment". Data collected during these events indicated that NAPL collection rates at 13 of the 23 locations (2 on-site and 11 perimeter) warranted the installation of pumps to support automated recovery. The remaining 10 wells are managed using manual recovery techniques.

The pumps, associated controls and NAPL accumulation tank were installed during the period of June and July 2014. The fixed speed pumps are controlled by timers to ensure that the NAPL at each location is contained within the sump at a level above the pump inlet. The remaining locations are

monitored as part of the quarterly site inspection activities and NAPL is recovered on an as required basis to maintain the NAPL level within the sump.

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

The system is exempt from solid and hazardous waste permitting requirements under NYSDEC Guidance DER-10, "Technical Guidance for Site Investigation and Remediation" and the Consent Order for the Site since the substantive technical requirements of permits is met by the following:

- Development and Implementation of a Preparedness and Prevention Plan, Contingency Plan and Closure Plan.
- Maintaining Secondary Containment on the accumulation tank.

Additionally, the contents of the tank will be removed at a frequency of less than 90-days. It is expected that the contents will meet the requirements to be managed as an alternative fuel under NYSDEC DER-4. Collected NAPL that does not meet the requirements as an alternative fuels will be managed as a solid waste, and if necessary manifested as a hazardous waste for disposal at a permitted off-site facility.

The IRM monitoring and recovery activities will be documented in quarterly and annual Monitoring and Recovery Reports detailing the operation of the system, including NAPL collection rates, maintenance issues, unplanned releases/responses and a summary of off-site waste shipments for disposal.

1.0 Introduction

National Grid's consultant, AECOM, is submitting this Interim Remedial Measure (IRM) Completion Report to document the installation of the NAPL recovery system within the footprint of the former Equity Works Manufactured Gas Plant (MGP) site (the Site) which 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), now 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: the background of the 222, 252 and 254 Maspeth Avenue properties is summarized in Section 2, activities associated with the installation of the recovery wells are detailed in Section 3, monitoring and NAPL recovery activities are summarized in Section 4, proposed reporting procedures related to the operation of the recovery system are provided in Section 5, and references are included in Section 6.

2.0 Site Background

A brief historical summary of the Site and description of the current property layout are provided below.

2.1 Site History and Description

The Site is located in an historically industrialized area, which remains the same today. The Site was operated as a MGP from approximately 1893 to 1929. BUG sold the Site in September 1951. Subsequently, the Site was used for storage (pipe and valves) during the period of 1965 to 1981, and is believed to have been vacant during the period of 1986 to 1988. The Site is thought to have been used as a solid waste transfer facility since 1990 under the ownership of various parties.

2.2 Current Property Layout

Information related to the current ownership and use of the Site is provided below:

- 222 Maspeth Avenue – This property is owned by 222 Maspeth Avenue, LLC. and is currently used as an active waste recycling/waste transfer station operated by Cooper Tank Recycling (Cooper Tank). Currently, one enclosed building housing offices and one open building (no walls, with roof) housing waste recycling operations are located on the lot.
- 252 Maspeth Avenue – This property is owned by Giacomo and Giovanna Bordone and is currently leased by Cooper Tank. The property is used as a maintenance center for equipment and a two story concrete building is located on the north side of the property, along Maspeth Avenue.
- 254 Maspeth Avenue – This property is currently owned by 254 Maspeth Avenue, LLC. The property has been used for occasional storage of empty roll-off containers, parking of tractor-trailers, and Cooper Tank employee vehicle parking. Two rectangular, in-ground scales for determining truck tare weight and a storm water collection structure are located on the northern portion of the property.

Cooper Tank has been issued a NYSDEC Part 360 Permit for the recycling facility. This permit, which covers the expansion of the current 222 Maspeth Avenue operations into the 252 and 254 Maspeth Avenue properties required construction of a perimeter wall around open areas of the 254 Maspeth parcel, and the installation of a concrete pad with a storm water collection system across the entire surface of the 252 and 254 Maspeth Avenue properties. This work was completed by Cooper Tank in the spring of 2014 at the 254 Maspeth Avenue property. Installation of a storm water collection system and concrete surface pad at the 252 Maspeth Avenue property is delayed with an unknown completion date.

Since the installation of the wall and concrete pad would significantly limit access to subsurface areas of the Site, NYSDEC requested that National Grid conduct an IRM while a final site remedy is developed through the DER 10 process.

3.0 Recovery Well Installation

AECOM, on behalf of National Grid, conducted an IRM to collect NAPL while site-wide investigation and remedial design activities are completed. The design of the NAPL recovery system has been based on the installation of 23 NAPL recovery wells at locations that have the potential to collect NAPL, and are compatible with Cooper Tank's construction and long-term operational plans.

3.1 Mobilization and Site Preparation

Mobilization for the IRM occurred on March 8, 2013, and included the staging of the necessary equipment and personnel to manage investigation derived waste, implement the Health and Safety Plan (HASP) and setup an on-site decontamination facility.

Site preparation activities included utility clearance and installation of site and traffic controls. Prior to the start of field activities, Dig Safely New York was contacted, and companies with subsurface utilities present in the work area marked-out their utilities in areas immediately adjacent to the Site. Cooper Tank provided site drawings to identify the locations of on-site utility lines. The IRM contractor (Envirotrac) delineated and marked-off work areas to facilitate the effective flow of site traffic for their and for Cooper Tank vehicles. Proposed well locations were surveyed by geophysical methods to identify possible locations of subsurface structures not indicated on available drawings. All well locations were pre-cleared to a depth of 5 ft bgs.

3.2 Recovery Well Locations

Consistent with the NYSDEC approved work-plan (AECOM, 2013), NAPL recovery wells were installed in the following areas of the Site:

- **On-Site**–5 NAPL recovery wells (RW-1 through 5) were installed at locations within the 252 Maspeth Avenue property .
- **Site Perimeter** –18 NAPL recovery wells (RW-16 through 23) were installed along the perimeter of the Site on the 222, 252 and 254 Maspeth Avenue properties

An illustration of well locations is provided on Figure 3-1. The perimeter locations are spaced at approximately 18 feet - on center, with the exception of the area along the driveway of 254 Maspeth where the presence of a subsurface structure has required spacing of approximately 30 feet between the three NAPL recovery wells (RW-6, -7 and -8). All locations were equipped with the infrastructure i.e., conduits for electrical service and tubing, for the subsequent automation of NAPL recovery activities, if needed.

3.3 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) has 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 PDI. Each well was equipped with a 5-foot long, 6-inch diameter, stainless steel sump to collect NAPL. An illustration of a typical in-place recovery well, as installed using the procedures detailed below, is provided in Figure 3-2.

3.3.1 Well Installation Procedures

The NAPL recovery wells were installed during the period of March 14 to April 10, 2013. Soil borings were advanced at each of the locations, and soil samples collected for observation. A summary of NAPL observations is provided as Table 3-1, with copies of the boring logs provided in Appendix A. Based on the observations, the bottom of the well screen was set at the bottom of the observed NAPL saturated interval. A summary of the design/actual depths and screen intervals for well installation is also provided in Table 3-1. Multiple intervals of NAPL saturation that were separated by low permeability soils within a location were screened separately.

The diameter of the bore hole for all locations was at least four inches greater than the riser and screen diameter. The well casing assembly, consisting of the sump, centralizer, screen, and casing was then lowered into the borehole and grout was carefully tremied into the base of the borehole until it reached the top of each sump. A sand filter pack was then placed around the well screen and the riser to a minimum of two feet above the top of the well screen.. 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). Each recovery well was completed in a 4-foot by 4-foot traffic-rated well vault. A photograph of a completed location is provided as Figure 3-3.

It should be noted that the Work Plan outlined the use of a pre-determined quantity of cement/bentonite grout to be placed in the bottom of the boring to fill the annulus between the sump and the bore hole wall to the screen-sump interface where a cement basket was to be placed. However, well placement difficulties resulting in damage to the cement basket occurred during the first well installation. NYSDEC oversight personnel approved the alternate well installation method described in the paragraph above.

The elevation of the top of the vaults were set to be flush with the proposed final concrete ground surface for the facility. Installed wells were surveyed for elevation and location using a surveyor licensed in the State of New York. A minimum of 24-hours post-installation of the grout, each well was developed using surge and pump procedures to remove drilling fluids and fine-grained material from the sump, well screen, and filter pack. Development water was stored in on-site frac tanks prior to disposal at an approved off-site facility, as outlined in Section .3.2.2 below.

Equipment was routinely decontaminated to prevent the potential cross-contamination between boreholes and/or the spread of contaminated material outside of the IRM work areas. Large-scale equipment was pressure washed prior to leaving the Site. Decontamination water generated during cleaning of tools and equipment was temporarily stored on-site for later off-site disposal at an approved facility as outlined in Section .3.2.2 below. The installation of the infrastructure and controls for the system was completed on May 7, 2014.

3.3.2 Environmental Controls

Environmental controls were implemented to ensure that the work activities were conducted in accordance with the NYSDEC approved Work Plan (AECOM, 2013).

3.3.2.1 Air Monitoring

Site perimeter air monitoring was performed in accordance with NYSDOH requirements and the Community Air Monitoring Plan (CAMP) for the project. Concentrations of total volatile organic compounds (TVOC) ranged from 0.1 to 0.5 parts per million by volume (ppmv). Levels of respirable particulate matter (PM10) ranged from 0.01 to 0.8 milligrams per cubic meter (mg/m^3). Summary data sheets from the monitoring program are provided in Appendix B.

3.3.2.2 Waste Management

The installation of the recovery system resulted in the generation of the following wastes:

- Drill cuttings from the installation of the recovery wells (14.47 tons)
- Excavated soil and concrete/debris from the installation of the utility conduits running between the recovery wells and the recovery well vaults (783.6 tons)
- Purge water from the development of the wells and decontamination water (5,904 gallons)

In instances where existing analytical profiles were not available, the investigation derived wastes were characterized for the following analytical parameters: Toxicity Characteristic Leaching Procedure (TCLP), corrosivity, ignitability, reactivity, total petroleum hydrocarbons (TPH), and polychlorinated biphenyls (PCBs). All wastes were managed as solid wastes at a permitted off-site facility. Documentation of disposal at Bayshore Soil Management (soils), Bayshore Recycling Corporation (concrete/debris), and Clean Water of New York (purge/decon water) are provided in Appendix C. Note that the analysis of representative samples of the collected purge water from recovery well development indicated that material exhibited levels of benzene that exceeded the Toxicity Characteristic criterion for benzene. The frac tank containing the water was appropriately labeled to indicate that the contents had the potential to be a hazardous waste. Subsequently, the purge water was transferred to a second tank using a closed system that included an in-line carbon canister in accordance with New York Codes, Rules and Regulations Chapter 6 (NYCRR 6) Subpart 371.1(e)(3)(i). The rule exempts waste that is generated in a storage tank from regulation as a hazardous waste until it leaves the unit. Since the purge water was re-sampled in the second tank and found to have benzene levels that were less than the Toxicity Characteristic threshold, it was managed off-site as a solid waste. The spent carbon and sediment from the bottom of the frac tanks were managed in accordance with NYSDEC DER-4, “Management of Coal Tar Waste and Coal Tar Contaminated Soils and Sediment.” Personal protection equipment (PPE) was also managed at Bayshore Recycling, and is included in the quantity listed above.

4.0 Monitoring and NAPL Recovery

As part of the installation of the system, initial monitoring activities were conducted to provide a preliminary estimate of potential collection rates to determine which locations would require automation for cost-effective management of collected NAPL. Subsequent monitoring/recovery activities will be conducted on an as-required basis to a negotiated endpoint or until a final remedy is selected/implemented for the Site through the DER-10 process.

4.1 Initial Monitoring

Eleven (11) manual monitoring events were conducted during the period when Cooper Tank was completing the design and installation of the concrete pad on the 254 Maspeth Avenue property (May 2013 to February 2014). As part of the monitoring activities, the depth to water, total well depth, and depth to NAPL were measured at each location. All readings were evaluated for reasonableness, and re-measured as necessary to ensure accurate data.

Collected NAPL was recovered using an air lift system. The system consists of an air compressor and sample line (1-in outside diameter [O.D.] 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.

Summaries of the results from the monitoring activities are provided in Tables 5-1 (NAPL thickness) and 5-2 (recovered NAPL). As indicated on Table 5-2, manual gauging and recovery activities performed between May 2013 and February 2014 have provided the following findings:

- The majority of NAPL (approximately 85 percent of total) has been collected from eight locations that have been designated as “primary recovery wells.”
  - 2 interior wells
    - 252 Parcel - RW-2, RW-3
  - 6 perimeter
    - 254 Parcel – RW-10, RW-12, RW-13
    - 252 Parcel – RW-18, RW-19, RW-20
- Five other perimeter locations have accounted for the remaining 15% of NAPL collected. They have been designated as “secondary recovery wells.”
  - 254 Parcel – RW-8, RW-9, RW-11, RW-17

- 252 Parcel – RW-21

- None or limited quantities of NAPL have been observed in the 10 remaining wells. These have been designated as “gauging wells.” At these locations, wells are purged on a regular basis if levels of NAPL have the potential to exceed the sump height in the well.

The collected NAPL is currently being managed as an alternative fuel at the Tradebe Facility in Cohoes, New York. The approach meets the requirements for managing the NAPL as a solid waste in accordance with NYSDEC DER-4. Documentation for the management of recovered NAPL is provided in Appendix C.

4.2 On-going Monitoring and NAPL Recovery

The NAPL recovery system is intended to collect NAPL and develop data related to the nature and extent of to support the evaluation of potential long-term remedies for the Site. As a result, the NAPL recovery system will be operated in a manner that maintains the NAPL levels within the well sumps. The recovery approaches for the primary, secondary and gauging wells are described below:

- **Primary Recovery Wells** - The eight primary wells currently produce about 1 gpd each of NAPL. 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 monitoring/collection is 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.
- **Secondary Recovery Wells** - The five secondary wells currently produce about 0.1 to 0.5 gpd of NAPL. The manual management of NAPL at these five 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 is not thought to be cost effective, and these locations were also be automated.
- **Gauging Wells** – The ten gauging wells currently produce less than 0.1 gpd of NAPL. NAPL at these locations will be effectively managed using manual recovery techniques.

The locations of the automated wells are illustrated on Figure 4-1.

4.2.1 System Operation

The primary and secondary locations have been equipped with fixed speed pumps manufactured by Pump Works. The well pumps are controlled with timers that will be adjusted based upon the observed recharge rates. The initial pumping rates for these locations are provided below.

- Primary Recovery Wells – 0.2 gallons per minute (gpm) for approximately 5 minutes per day to achieve a recovery rate of approximately 1 gpd.
- Secondary Recovery Wells- 0.01 to 0.05 gpm for approximately 10 minutes per day to achieve a recovery rate of 0.1 to 0.5 gpd.

The timers will be adjusted as required to ensure that the NAPL is contained within the sump of each well, but at a level above the inlet to the pump to minimize the collection of groundwater. Collected NAPL accumulates in a 500 gallon capacity double walled polyethylene tank located above ground in the system’s control trailer on the 254 parcel (Figure 4-2). 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. National Grid has developed the following documents to support the operation of the NAPL recovery system:

- **Preparedness and Prevention Plan** – identifies communication/alarm systems and their associated maintenance/testing schedule, and will define staff training procedures. The document is used to familiarize local police, fire department and emergency response teams with the layout of the facility, nature of the waste, places where facility staff would normally be located and evacuation routes for site staff.
- **Contingency Plan** – describes the actions to be taken in response to unplanned releases of waste. It provides lists of emergency contacts/support equipment; describe the arrangements with local police, fire department and emergency responders and identifies an evacuation route for site personnel.
- **Closure Plan** – describes the approach for decommissioning the system, as well as detailing the steps necessary to decontaminate all of the system components and manage waste residuals.

Copies of the documents have been provided to Cooper Tank staff, as well as local police, fire and emergency responders.

The Gauging wells will be monitored during quarterly inspection activities and collected NAPL will be recovered using the air lift equipment described above. The NAPL will be transferred to the accumulation tank.

Accumulated NAPL will be collected as required for transport by a licensed contractor to the Tradebe Facility for use as an alternative fuel. Representative samples of the contents of the tank will be collected and analyzed as required to support the disposal activities. Samples will be submitted for proper waste characterization on an annual basis as required by the disposal facility.

4.2.2 System Permitting Requirements

The collected NAPL is designated as a solid waste under NYCRR 6 Subpart 360-1.2 (a)(2)(iii), i.e. “it will be accumulated before being disposed of”. Although the recovered NAPL will be a solid waste, NYSDEC guidance and regulations provide the following options for pursuing exemptions from associated permitting requirements for the accumulation tank.

- NYSDEC Guidance DER-10, “Technical Guidance for Site Investigation and Remediation” provides an exemption from certain permitting requirements for activities that are conducted as a component of a remedial program. Section 1.10 of DER-10 states that the NYSDEC will typically grant an exemption from state permits/ authorizations for activities conducted under appropriate oversight, e.g., an Order on Consent or Voluntary Cleanup Agreement, and in instances where NYSDEC determines that the proposed procedures/ activities will comply with the substantive technical requirements of the permit. Appendix 1-C of the guidance specifically lists the construction/ operation of solid waste management units as activities that are subject to the exemption described in Section 1.10 of the guidance. The potential for an exemption in instances where remedial activities meet the substantive technical requirements of a state permit is also incorporated in the referenced Consent Order for the Site (Section XIV, C.1). A review of the background information presented above demonstrates that the proposed operating practices for the NAPL accumulation tank are consistent with the technical and administrative requirements of the NYSDEC Solid Waste Management

regulations, NYCRR, 6 Subpart 360, and should make the system subject to a solid waste permitting exemption.

- NYCRR 6 Subpart 360-1.7 (b)(4) provides a separate and specific exemption from solid waste permitting for temporary storage facilities located at a single industry/commercial establishment and used exclusively for the management of waste at that facility. The intended purpose of the accumulation tank is also consistent with the requirements of this exemption from solid waste permitting.

Analytical results indicate that the NAPL has the potential to be classified a RCRA D018 Waste due to its benzene content. However, the results suggest that it is not likely to be designated as a Toxicity Characteristic waste for other constituents, or as an Ignitable, Corrosive or Reactive waste when generated. NYSDEC Guidance DER-4, “Management of Coal Tar Waste and Coal Tar Contaminated Soils and Sediment” provides a conditional hazardous waste exclusion for D018 wastes at former MGP sites in instances when the waste is managed in accordance with New York State solid waste management requirements and is thermally treated at a facility permitted to receive non-hazardous media. It is expected that the recovered NAPL will meet these criteria and qualify for the hazardous waste exclusion.

Concerns that future variability in waste composition for constituents other than benzene might ‘trigger’ the requirement for a hazardous waste permit may also be addressed by the exemptions referenced in DER-10 and the Consent Order. Additionally, NYCRR 6 Part 373-1.1(d)(1)(iv) provides a separate and specific exemption to hazardous waste permitting requirements for accumulation units if the contents are removed in less than 90-days, secondary containment is used and certain administrative requirements, including prevention and preparedness training for staff, and preparation of contingency/closure plans are met. The proposed operating/reporting procedures are also consistent with the requirements of this exemption from hazardous waste permitting. However, wastes not meeting the requirements of the DER-4 exemption would have to be manifested and managed as a hazardous waste upon removal from the accumulation tank.

Analytical results from samples of representative samples of collected NAPL indicate that it could be classified as a Class III A Combustible Liquid due to its flash point, and could require a storage permit from the Fire Department of New York (FDNY) for the quantities that are expected to be accumulated. However, e-mail communication with FDNY stated that the storage permit requirement would not apply to the collected material at the Site since it will consist of a mixture of NAPL and water (Appendix D).

5.0 Reporting

The IRM activities will be documented in an annual report for the first year of operation and quarterly Monitoring and Recovery Reports thereafter presenting the results from the on-going monitoring and NAPL recovery activities. The proposed contents of these periodic reports are outlined below.

The Reports will provide a summary of the monitoring events conducted during the period, including:

- A summary of observations from each well.
- Depths to water and NAPL in each well.
- Observed NAPL thickness in each well.
- Trends in observed NAPL thickness in each well.
- Quantity of mixed fluids recovered from each well.
- Manifests for the off-site management of waste.
- Documentation of unplanned releases and associated responses.
- Documentation of significant maintenance events.
- Recommendations for the subsequent monitoring and recovery activities.

6.0 References

AECOM, 2013. Interim Remedial Measure Work Plan for Product Recovery, Equity Works Former MGP Site, Brooklyn, New York, NYSDEC Site No.: 224050, Order on Consent Index #: A2-0552-0606. January 2013.

AECOM, 2012. Interim Site Management Plan, Equity Works Former Manufactured Gas Plant Site, Brooklyn, New York, NYSDEC Site No.: 224050, Order on Consent Index #: A2-0552-0606. November 28, 2012.

National Grid, 2012. National Grid Environmental Procedure 2-A, Aboveground Storage Tank Management, December 2012.

New York State Department of Environmental Conservation (NYSDEC), 2002. Management of Coal Tar Waste and Coal Tar Contaminated Soils and Sediment (DER-4), January 11, 2002.

NYSDEC, 2010. DER-10/Technical Guidance for Site Investigation and Remediation, May 10, 2010.

Tables

Table 3-1
Former Equity Works Product Recovery IRM
Well Observations and Installation Parameters

Well ID	Installation Date	Screened Interval bgs (ft)	Sump Interval bgs (ft)	Total Well Depth (ft)	Top of Intermediate Clay bgs (ft)	Observations
RW-01	3/15-3/16/13	25'-40'	40'-45'	45'	40'	Approximately 14' of sand from 26'-40' was saturated with tar.
RW-02	3/17/2013	36'-46'	46'-51'	51'	46'	Approximately 9.5' of sand from 36.5'-46' was saturated with tar.
RW-03	3/17/2013	31'-46'	46'-51'	51'	46'	Approximately 7.5' of sand from 32'-32.5', 37'-43' and 45'-46' was saturated with tar.
RW-04	3/21/2013	16'-21' & 36'-46'	46'-51'	51'	46'	Approximately 1' of fill from 20'-21', and 2' of sand 44'-46' were saturated with tar.
RW-05	3/14-3/15/13	32'-42'	42'-47'	47'	42'	Fill coated with TLM @18'-21', 33'-40' pockets of sand saturated/coated with TLM, 40'-42' sand saturated with TLM.
RW-06	3/20/2013	17'-22' & 32'-42'	42'-47'	47'	42'	Fill coated with TLM @18'-19', and 10' of sand from 32'-42' was saturated with tar.
RW-07	3/23-3/24/13	Not finished	43'-48'	48'	43'	Approximately 10' of sand from 33'-43' was saturated with tar.
RW-08	3/23/2013	33'-43'	43'-48'	48'	43'	Approximately 8' of sand from 35'-43' was saturated with tar.
RW-09	3/18/2013	35'-45'	45'-50'	50'	44.5'	Approximately 9.5' of sand from 35'-44.5' was saturated with tar.
RW-10	3/18-3/19/13	31'-41'	41'-46'	46'	41'	Approximately 4' of sand from 34'-38' and approximately 3' of sand layers interbedded with clay from 38'-41' was saturated with tar.
RW-11	3/19/2013	31'-41' & 16'-21'	41'-46'	46'	40'	Approximately 2' of fill from 16'-18' and 6' of san from 34'-40' were saturated with tar, beds of sand from 30'-34' were also saturated with tar.
RW-12	3/19/2013	31'-41'	41'-46'	46'	40.5'	Approximately 6.5' of sand from 34'-40.5' was saturated with tar.
RW-13	3/20/2013	31'-41'	41'-46'	46'	41'	Approximately 8' of sand from 32'-40' was saturated with tar.
RW-14	3/20/2013	15'-20' & 30'-40'	40'-45'	45'	40'	Fill saturated with TLM @16.5'-18', and 7' of sand from 32'-39' was saturated with tar.
RW-15	3/19-3/20/13	30'-40'	40'-45'	45'	40'	Approximately 10' of sand from 30'-40' was saturated with tar.
RW-16	3/18-3/19/13	30'-45'	45'-50'	50'	45'	Approximately 7' of sand from 30'-32', 35'-40' was saturated with tar, pockets of tar from 40'-45'
RW-17	4/8-4/10/13	28'-43'	43'-48'	48'	43'	Approximately 13.5' of sand from 26.5'-40' had a coating of TLM, with saturated zones from 26'-26.5' and 40'-43' with TLM
RW-18	3/14-3/15/13	35'-45'	45'-50'	50'	45'	Fill coated with TLM @ 19'-21', 33'-40' pockets of sand saturated/coated with TLM, 40'-45' sand saturated with TLM.
RW-19	3/16/2013	37'-47'	47'-52'	52'	46.5'	Approximately 5' of sand from 42'-47' was saturated with tar.
RW-20	3/15-3/16/13	37'-47'	47'-52'	52'	47'	Approximately 10' of sand 37'-47' was saturated with tar.
RW-21	3/18/2013	35'-45'	45'-50'	50'	45'	Approximately 6' of sand from 39'-45' was saturated with tar.
RW-22	3/16-3/17/13	31'-41'	41'-46'	46'	41'	Approximately 6' of sand from 35'-40.5' was saturated with tar.
RW-23	3/17/2013	24'-39'	39'-44'	44'	39'	Approximately 9' of sand from 25'-30' and 35'-39' was saturated with tar.

Table 4-1
Former Equity Works Manufactured Gas Plant Site
Product Monitoring and Recovery Event
Measured Thickness

Location			Measured NAPL Thickness (ft.)										
	Parcel	Well ID	5/17/2013	5/31/2013	6/6/2013	6/13/2013	7/23/2013	8/26/2013	9/13/2013	10/18/2013	11/15/2013	12/6/2013	2/27/2014
On-Site	252	RW- 1	0.85	0.90	1.01	0.85	0.81	0.86	1.91	NM	NM	NM	2.5
		RW- 2	13.03	8.40	5.02	3.35	12.35	11.65	9.34	12.15	11.72	10.22	13.25
		RW- 3	15.45	10.25	5.03	4.26	14.55	13.15	11.15	13.32	NM	NM	NM
		RW- 4	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
		RW- 5	1.33	1.80	1.75	2.10	2.32	3.25	4.35	4.30	0.72	0.21	2.11
Perimeter	254	RW- 6	0.81	1.41	1.55	1.40	1.81	2.20	NE	3.0	3.73	0.30	3.11
		RW- 7	0.02	NE	0.12	NE	0.62	NM	NM	NM	NM	NM	NM
		RW- 8	2.53	3.11	2.65	3.21	5.22	1.80	3.05	4.22	1.55	1.20	5
		RW- 9	6.02	1.95	2.65	3.43	6.65	4.61	6.24	8.23	4.20	2.80	9.25
		RW- 10	13.05	7.05	4.22	2.20	6.11	11.85	9.01	11.93	11.00	9.91	12.85
		RW- 11	2.57	3.22	3.35	4.01	5.65	1.65	2.42	1.80	1.35	1.12	4.31
		RW- 12	13.32	13.03	9.94	7.53	12.96	13.03	11.92	11.90	12.22	11.90	11.71
		RW- 13	13.50	12.61	6.98	5.00	11.93	11.45	10.60	11.42	11.70	9.15	12.33
		RW- 14	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
		RW- 15	1.02	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
		RW- 16	0.17	NE	NE	NE	0.15	0.03	NE	0.20	0.51	0.15	0.72
		RW- 17	1.40	1.60	1.12	0.71	3.35	3.75	4.75	6.02	6.60	0.23	5.85
	252	RW- 18	10.42	9.55	6.69	7.45	10.05	10.31	10.14	10.22	9.55	10.01	11.25
		RW- 19	13.18	11.45	7.42	7.50	12.62	12.45	11.55	11.42	11.05	11.65	12.75
		RW- 20	3.62	11.11	7.23	6.33	13.00	12.25	12.57	12.02	11.03	11.85	12.78
		RW- 21	3.75	4.05	0.85	1.58	4.40	4.02	3.24	5.81	4.05	3.60	10.02
	222	RW- 22	7.40	6.80	2.22	2.22	9.02	NM	9.31	9.45	9.32	9.40	9.35
		RW- 23	NM	NM	NM	NM	0.64	NM	1.17	1.20	NE	NE	1.54

Note:

NE - not encountered at thickness greater than 0.01 ft.

NM- not measured, not accessible

NAPL encountered, but not recovered

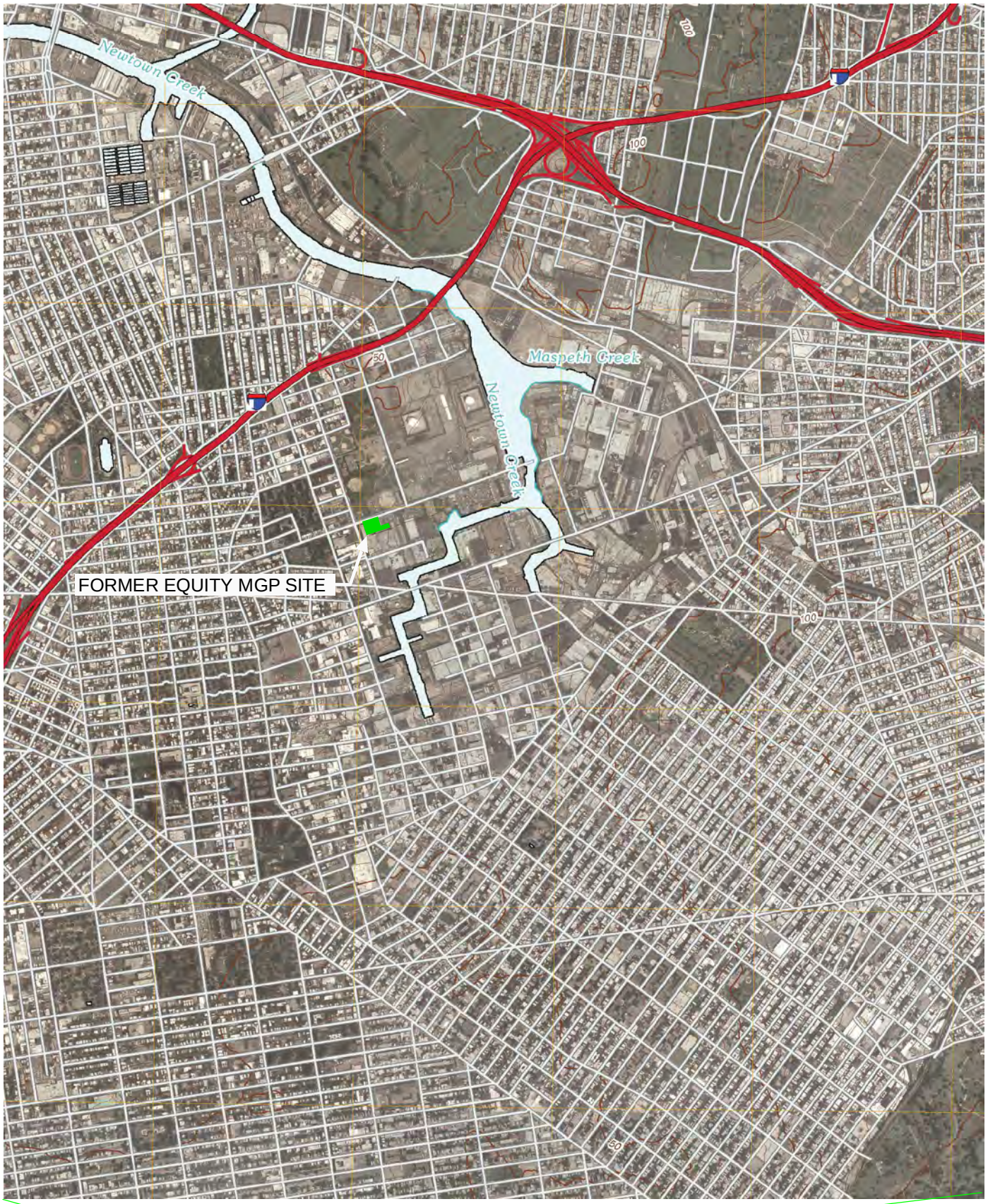
Table 4-2
Former Equity Works Manufactured Gas Plant Site
Product Monitoring and Recovery Event
Quantity of Product Recovered

Location			Gal. NAPL Per Day a											Total gal.	Percent	
	Parcel	Well ID	5/17/2013	5/31/2013	6/6/2013	6/13/2013	7/23/2013	8/26/2013	9/13/2013	10/18/2013	11/15/2013	12/6/2013	2/27/2014	to date	of Total	
On-Site	252	RW- 1	0	0	0	0	0	0	0	0	0	0	0	0		
		RW- 2	0.3	1.0	0.9	0.9	0.6	0.4	0.9	0.6	0.7	0.9	0.3	169	10.1	
		RW- 3	0.3	1.2	1.0	0.9	0.7	0.4	1.2	0.6	0	0	0	124	7.4	
		RW- 4	0	0	0	0	0	0	0	0	0	0	0	0		
		RW- 5	0	0	0	0	0	0	0	0.2	0	0	0	7	0.4	18.0
Perimeter	254	RW- 6	0	0	0	0	0	0	0		0	0	0	6	0.4	
		RW- 7	0	0	0	0	0	0	0		0	0	0	0		
		RW- 8	0	0.1	0	0	0.3	0	0	0.2	0.1	0	0	29	1.7	
		RW- 9	0.2	0	0	0	0.3	0	0	0.4	0.3	0	0	56	3.4	
		RW- 10	0.5	1.1	1.1	1.0	0.3	0.5	0.9	0.6	0.6	0.9	0.3	178	10.7	
		RW- 11	0	0.0	0.0	0	0.2	0.0	0.2	0.1	0.1	0	0.3	39	2.3	
		RW- 12	0.2	1.6	2.3	1.7	0.6	0.5	1.2	0.5	0.7	1.1	0.3	193	11.6	
		RW- 13	0.2	1.3	1.3	1.3	0.6	0.4	1.0	0.5	0.6	0.8	0.3	171	10.3	
		RW- 14	0	0	0	0	0	0	0	0	0	0	0	0		
		RW- 15	0	0	0	0	0	0	0	0	0	0	0	0		
		RW- 16	0	0	0	0	0	0	0	0	0	0	0	0		
		RW- 17	0	0	0	0	0	0	0	0	0.4	0	0	20	1.2	41.5
	252	RW- 18	0.2	0.8	1.2	1.2	0.5	0.3	0.9	0.5	0.6	0.9	0.1	144	8.6	
		RW- 19	0.3	1.2	1.4	1.3	0.7	0.4	1.1	0.6	0.6	1.0	0.2	172	10.3	
		RW- 20	0.3	1.2	1.2	0.9	0.6	0.4	1.2	0.6	0.7	1.0	0.3	179	10.7	
		RW- 21	0	0.6	0	0.0	0.3	0.1	0.0	0.3	0.3	0.3	0.3	59	3.5	33.2
	222	RW- 22	0.3	0.7	0.7	0.4	0.4	0.0	1.0	0.5	0.5	0.9	0.2	120	7.2	
		RW- 23	0	0	0	0	0	0	0	0	0	0	0.2	2	0.1	7.3
Total		System Total	2.8	10.8	11.1	9.6	6.1	3.4	9.6	6.2	6.4	8	3.1	1,668		

Notes:

[a] estimated of NAPL quantity (total fluids * estimated percent NAPL)

Figures



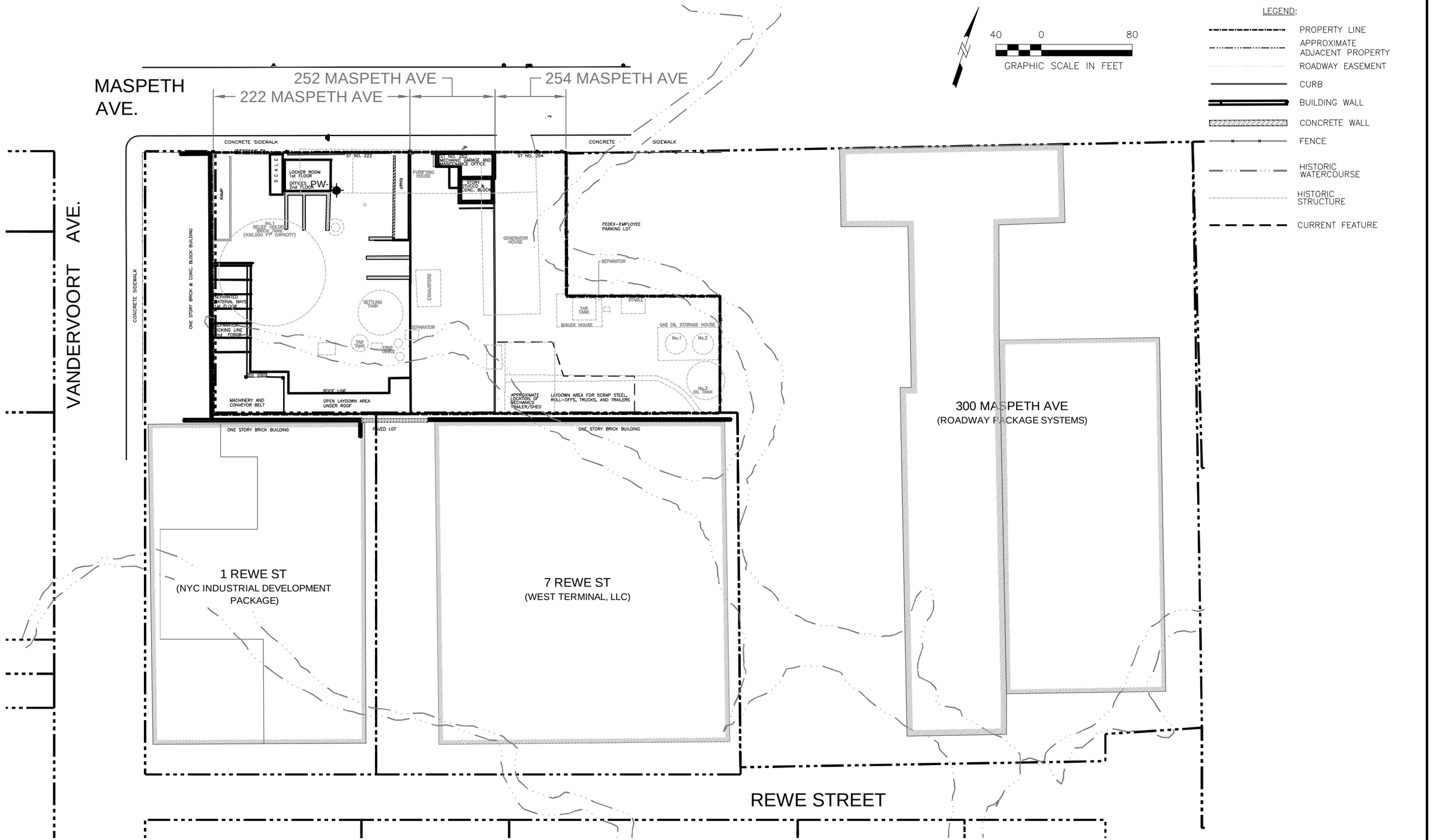
AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE,
BROOKLYN NY

SITE LOCATION

DATE: 12/2012 | DRWN: BcV/C-MA | **FIGURE 1-1**

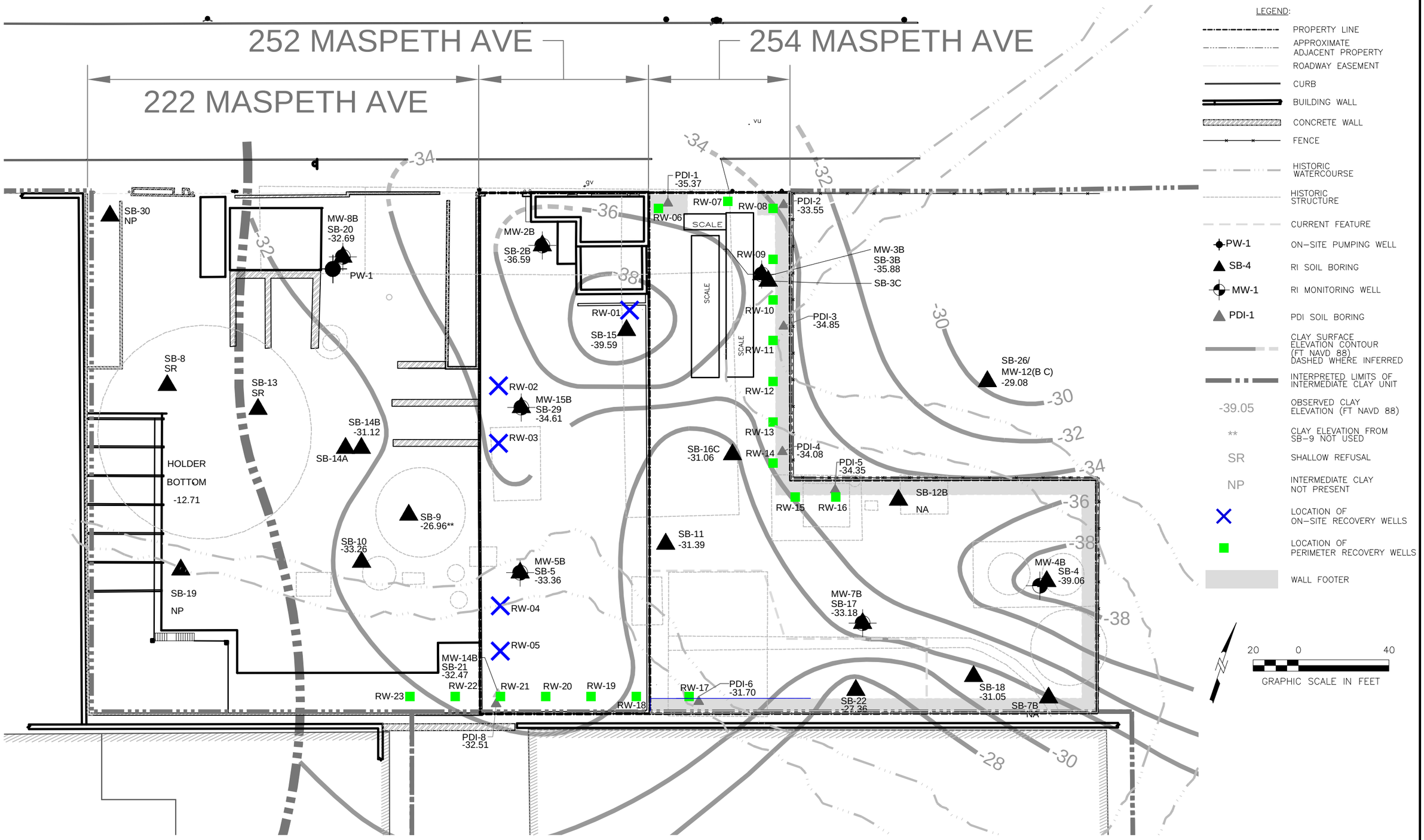
File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2012-IRM_PRODUCT-RECOVERY\WorkPlan_figures\60137362-660-A1.dwg Layout: Site LocUSGSphoto User: vershonb Plotte



AECOM

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

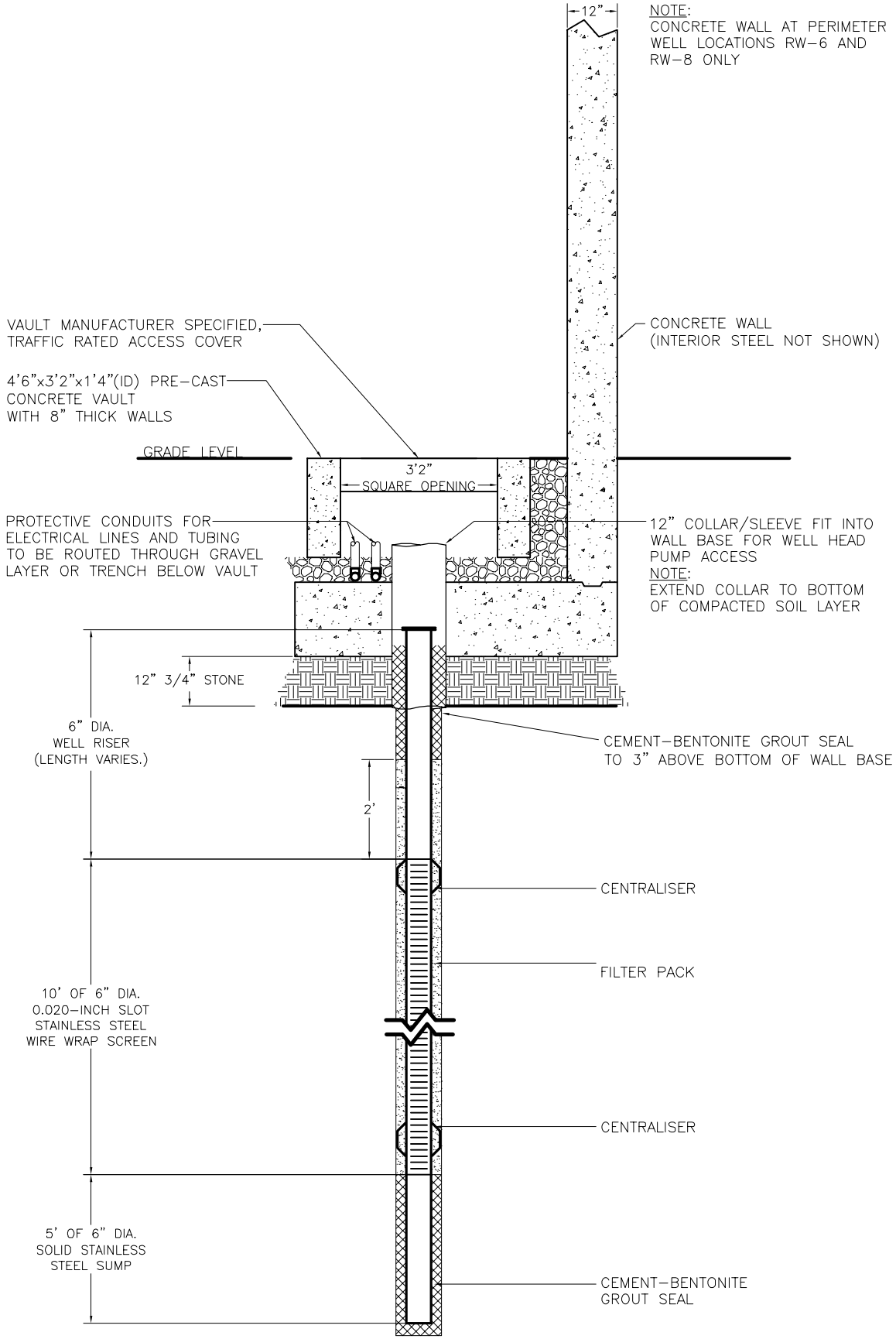
File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2012-IRM_PRODUCT-RECOVERY\WorkPlan_figures\60137362-660-A1.dwg Layout: Site Limits User: vershonb Plotted: Dec 1



AECOM

NATIONAL GRID FORMER EQUITY WORKS MGP SITE, BROOKLYN NY 60137362-400		LOCATIONS OF ON-SITE AND PERIMETER RECOVERY WELLS
DATE: 12/11/12	DRWN: BcV/C-MA	**FIGURE 3-1**

File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2012-IRM_PRODUCT-RECOVERY\WorkPlan_figures\60137362-660_A5.dwg Layout: Layout1 User: vershonb Plotted: Dec 11, 2



AECOM

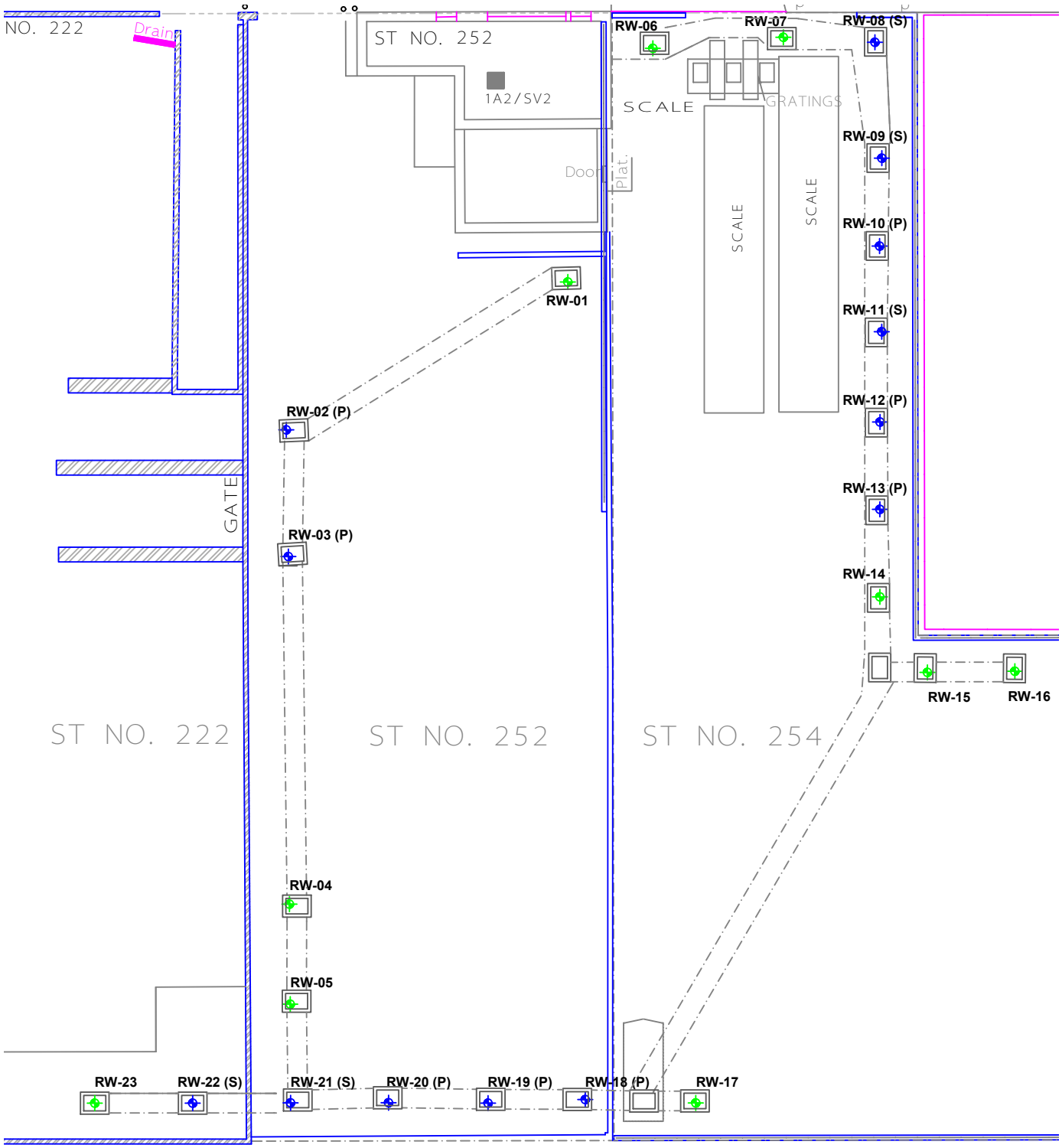
NATIONAL GRID FORMER EQUITY WORKS MGP SITE, BROOKLYN NY			**RECOVERY WELL CONSTRUCTION**
DATE: 03/17/2015	DRWN: RCW		**FIGURE 3-2**

AECOM

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

COMPLETED WELL LOCATION

Figure 3-3



LEGEND

RW-02 (P) AUTOMATED WELLS - PRIMARY (COLLECTION RATE > 1 GPD)

RW-08 (S) AUTOMATED WELLS - SECONDARY (COLLECTION RATE 0.5 - 0.1 GPD)

RW-01 GAUGING WELLS (COLLECTION RATE < 0.1 GPD)

15 0 30

GRAPHIC SCALE IN FEET

AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE,
BROOKLYN NY
60137362.660

DATE: 10/30/2013 | DRWN: BcV/C-MA

LOCATION OF AUTOMATED WELLS

FIGURE 4-1

AECOM

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

CONTROL TRAILER

Figure 4-2

Appendix A

Boring/Recovery Well Logs

AECOM Boring and Well Construction Log

BORING #: RW1

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686698.8 **Easting:** 649174.7	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.4	**Well Screen Interval (ft bgs):** 25-40
Start Date: 3/15/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
	NA	NA			Concrete	Approximately 1 foot of CONCRETE		
						1.0 FILL		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8								
10	NA	NA			FILL			
12							Bentonite Seal	
14								
16								
						17.0		
18	NA	NA				FILL, tar coating		
						19.0		
20	NA	NA				PEAT, tar coating		
						20.0		
22	NA	NA			PT	PEAT, tar stringers and lenses		
24						24.0		
	NA	NA				SILTY fine SAND, tar coated	Filter Pack (#0 Sand)	
						25.0		
26					SP	SILTY fine SAND, tar saturated		

Remarks: Boring Terminated (ft): 45.0

See boring log SB-15 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW1

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686698.8 **Easting:** 649174.7	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.4	**Well Screen Interval (ft bgs):** 25-40
Start Date: 3/15/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28						SILTY fine SAND, tar coated *(continued)*		
30								
32								
34	NA	NA			SP		6" Diam. 0.020 SS Continuous Wire Wrap Screen	
36								
38								
40						40.0		
42	NA	NA			CL	CLAY	Grout 6" Diam. SS Sump	
44						45.0		

End of boring at 45.0 ft. bgs.

Remarks: Boring Terminated (ft): 45.0

See boring log SB-15 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW10

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686726.5 **Easting:** 649232.5	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8	NA	NA						
10					FILL			
12								
14							Bentonite Grout	
	NA	NA				14.0 FILL material, tar coated		
16	NA	NA				15.0 FILL material, heavily tar coated		
						17.0		
18	NA	NA				FILL material 18.0		
20						PEAT/organic material		
22	NA	NA			PT			
24						24.0		
	NA	NA				SILTY fine SAND		
26					SP	25.0 SILTY fine SAND, tar coated		

Remarks: Boring Terminated (ft): 48.0

See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW10

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686726.5 **Easting:** 649232.5	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA			SP	SILTY fine SAND *(continued)*	Bentonite Seal	
30							Filter Pack (#0 Sand)	
32								
34						34.0		
36	NA	NA				SILTY fine SAND, tar saturated	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38						38.0		
40	NA	NA			SC	Interbedded SAND and CLAY, tar saturated		
42						41.0	Grout	
44	NA	NA			CL	CLAY	6" Diam. SS Sump	
46								
48						48.0		

End of boring at 48.0 ft. bgs.

Remarks: Boring Terminated (ft): 48.0

See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW11

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686710.1 **Easting:** 649238.6	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8	NA	NA					Bentonite Seal	
10					FILL			
12								
14								
16						16.0	Filter Pack (#0 Sand)	
18	NA	NA				FILL material, tar saturated		
						18.0		
20	NA	NA				FILL material	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
						20.0		
22	NA	NA			PT	PEAT/organic material	6" Diam. Sch. 40 PVC Riser	
24						24.0		
26					SP	SILTY fine SAND, tar coated bands	Bentonite Seal	

Remarks: Boring Terminated (ft): 46.0

See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW11

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686710.1 **Easting:** 649238.6	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA				SILTY fine SAND, tar coated bands *(continued)*		
30						30.0 SILTY fine SAND, tar saturated, beds of tar saturation from 30 to 34 ft bgs	Filter Pack (#0 Sand)	
32					SP			
34	NA	NA						
36							6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38								
40						40.0		
42	NA	NA			CL	CLAY	Grout	
44							6" Diam. SS Sump	
46						46.0		

End of boring at 46.0 ft. bgs.

Remarks: Boring Terminated (ft): 46.0

See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW12

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686692.6 **Easting:** 649244.2	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8	NA	NA			FILL			
10								
12								
14							Bentonite Grout	
16						16.0		
	NA	NA				FILL material, tar saturated		
						17.0		
18	NA	NA				FILL material		
						18.0		
20						PEAT/organic material		
22	NA	NA			PT			
24						24.0		
26	NA	NA			SP	SILTY fine SAND		

Remarks: Boring Terminated (ft): 46.0

See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

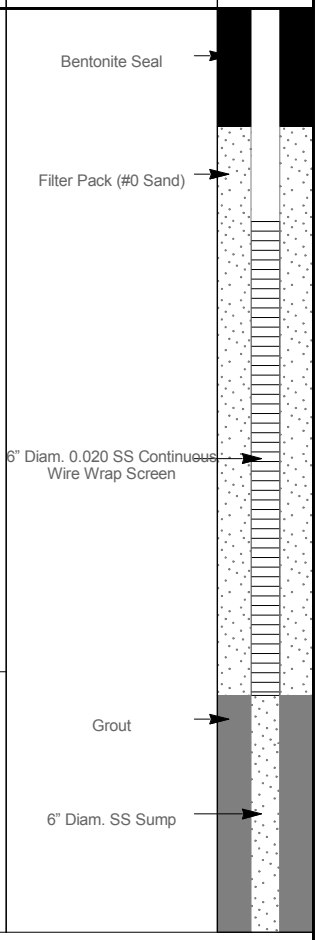
(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW12

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686692.6 **Easting:** 649244.2	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS
28	NA	NA			SP	27.0 SILTY fine SAND *(continued)* SILTY fine SAND, heavily tar coated bands
30						
32						
34						34.0
36	NA	NA				SILTY fine SAND, tar saturated
38						
40						40.5
42	NA	NA			CL	CLAY
44						
46						46.0



End of boring at 46.0 ft. bgs.

Remarks: Boring Terminated (ft): 46.0

See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW13

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686675.7 **Easting:** 649250.0	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.7	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
2						FILL material		
4								
6							6" Diam. Sch. 40 PVC Riser	
8								
10	NA	NA			FILL			
12								
14							Bentonite Grout	
16								
18						18.0		
20						PEAT/organic material		
22	NA	NA			PT			
24						25.0		
26	NA	NA			SP	SILTY fine SAND		

Remarks: Boring Terminated (ft): 46.0

See boring logs PDI-3 and PDI-4 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW13

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686675.7 **Easting:** 649250.0	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.7	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA			SP	27.0 SILTY fine SAND *(continued)* Silty fine SAND, heavily tar coated	Bentonite Seal	
30							Filter Pack (#0 Sand)	
32						32.0 SILTY fine SAND, tar saturated		
34								
36	NA	NA					6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38								
40						40.0 SILTY fine SAND		
	NA	NA				41.0		
42					CL	CLAY	Grout	
44	NA	NA					6" Diam. SS Sump	
46						46.0		

End of boring at 46.0 ft. bgs.

Remarks: Boring Terminated (ft): 46.0

See boring logs PDI-3 and PDI-4 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW14

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686658.8 **Easting:** 649255.8	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 11.0	**Well Screen Interval (ft bgs):** 30-40
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8							Bentonite Seal	
10	NA	NA			FILL			
12								
14							Filter Pack (#0 Sand)	
16								
16.5						FILL material, tar saturated		
18	NA	NA				18.0	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
20						PEAT/organic material		
22	NA	NA			PT		6" Diam. Sch. 40 PVC Riser	
24							Bentonite Seal	
25.0						SILTY fine SAND		
26	NA	NA			SP	26.0		
						SILTY fine SAND, tar coated, few bands of tar saturation		

Remarks: Boring Terminated (ft): 45.0

See boring log PDI-4 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW14

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686658.8 **Easting:** 649255.8	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 11.0	**Well Screen Interval (ft bgs):** 30-40
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28						SILTY fine SAND *(continued)*		
30	NA	NA					Filter Pack (#0 Sand)	
32						32.0 SILTY fine SAND, tar saturated		
34					SP			
36	NA	NA					6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38								
40	NA	NA				39.0 SILTY fine SAND 40.0		
42						CLAY	Grout	
44	NA	NA			CL		6" Diam. SS Sump	
						45.0		

End of boring at 45.0 ft. bgs.

Remarks: Boring Terminated (ft): 45.0

See boring log PDI-4 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

Boring and Well Construction Log

BORING #: RW15

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686647.4 **Easting:** 649270.0	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 11.3	**Well Screen Interval (ft bgs):** 30-40
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
2	NA	NA			FILL	FILL material	6" Diam. Sch. 40 PVC Riser	
4								
6								
8								
10								
12							Bentonite Grout	
14								
16								
18								
20						20.0		
22	NA	NA			PT	PEAT/organic material		
24								
25.0								
26					SP	SILTY fine SAND, tar coated		

Remarks: Boring Terminated (ft): 45.0

See boring log PDI-5 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW15

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686647.4 **Easting:** 649270.0	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 11.3	**Well Screen Interval (ft bgs):** 30-40
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA				SILTY fine SAND, tar coated *(continued)*	Bentonite Seal	
30						30.0 SILTY fine SAND, tar saturated	Filter Pack (#0 Sand)	
32								
34					SP			
36	NA	NA					6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38								
40						40.0		
42	NA	NA			CL	CLAY	Grout	
44						45.0	6" Diam. SS Sump	

End of boring at 45.0 ft. bgs.

Remarks: Boring Terminated (ft): 45.0

See boring log PDI-5 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW16

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686653.4 **Easting:** 649286.8	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 11.7	**Well Screen Interval (ft bgs):** 30-45
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
2						FILL material, lots of brick from 10 to 15 ft bgs		
4								
6							6" Diam. Sch. 40 PVC Riser	
8								
10	NA	NA			FILL			
12							Bentonite Grout	
14								
16								
18								
20						20.0		
22	NA	NA			PT	PEAT/organic material		
24						25.0		
26	NA	NA			OH	CLAY with organics	Bentonite Seal	

Remarks: Boring Terminated (ft): 50.0

See boring logs PDI-5 and SB-12B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

Boring and Well Construction Log

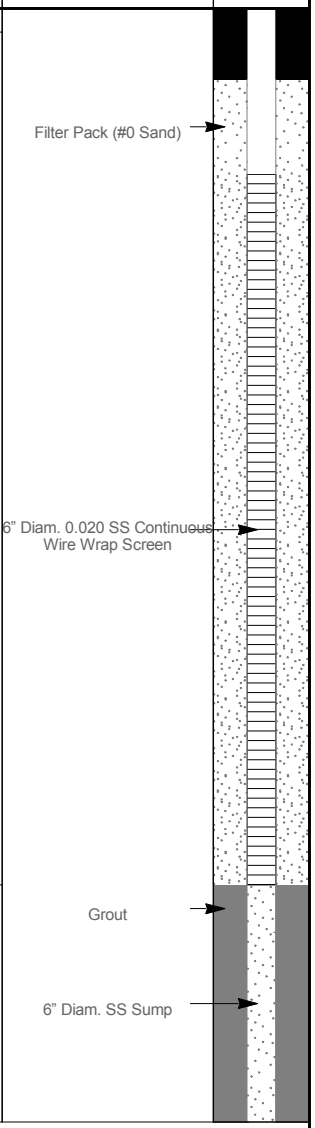
BORING #: RW16

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686653.4 **Easting:** 649286.8	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 11.7	**Well Screen Interval (ft bgs):** 30-45
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS
					OH	27.0 CLAY with organics *(continued)*
28	NA	NA				SILTY fine SAND, tar coated bands
30						30.0
32	NA	NA				SILTY fine SAND, tar saturated
34	NA	NA				32.0 SILTY fine SAND, tar coated
36					SP	35.0 SILTY fine SAND, tar saturated
38	NA	NA				
40						40.0
42	NA	NA				SILTY fine SAND, tar saturated pockets of SAND
44						
46	NA	NA			CL	45.0 CLAY
48						
50						50.0

End of boring at 50.0 ft. bgs.

Well Construction Details



Remarks: Boring Terminated (ft): 50.0

See boring logs PDI-5 and SB-12B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW17

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Kristen Durocher
Project: Equity Former MGP Site	**Northing:** 686548.9 **Easting:** 649253.9	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.4	**Well Screen Interval (ft bgs):** 28-43
Start Date: 4/8/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 4/10/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
2						Fill material, some brick fragments and glass.		
4								
6					Fill		6" Diam. Sch. 40 PVC Riser	
8								
10								
11.0								
12						Sandy Silt, grey to black, fine grained, some coarse to fine gravel.	Bentonite Grout	
14	NA	NA			ML			
15.0								
16						Fibrous and Friable Peat		
18								
20								
22					PT			
24							Bentonite Seal	
26								
26.0								
	NA	NA			SP	SAND, tar saturated/Sand tar coated		

Remarks: Boring Terminated (ft): 48.0

See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW17

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Kristen Durocher
Project: Equity Former MGP Site	**Northing:** 686548.9 **Easting:** 649253.9	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.4	**Well Screen Interval (ft bgs):** 28-43
Start Date: 4/8/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 4/10/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA			SP	SAND, tar saturated/Sand tar coated *(continued)*	Filter Pack (#0 Sand)	
30								
32								
34								
36							6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38								
40								
42	NA	NA				43.0		
44	NA	NA			CL	CLAY	Grout	
46							6" Diam. SS Sump	
48						48.0		

End of boring at 48.0 ft. bgs.

Remarks: Boring Terminated (ft): 48.0

See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW18

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686542.2 **Easting:** 649232.4	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.6	**Well Screen Interval (ft bgs):** 35-45
Start Date: 3/14/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/15/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6								
8								
10	NA	NA			FILL			
12								
14								
16							Bentonite Grout →	
18							6" Diam. Sch. 40 PVC Riser →	
19.0						FILL, NAPL coated, tar staining at 19 ft bgs		
20	NA	NA						
21.0						PEAT/organic material		
22								
24	NA	NA			PT			
26								
26.0						SILTY fine SAND		

Remarks: Boring Terminated (ft): 50.0

See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW18

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686542.2 **Easting:** 649232.4	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.6	**Well Screen Interval (ft bgs):** 35-45
Start Date: 3/14/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/15/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28						PEAT/organic material *(continued)*		
30	NA	NA						
32							Bentonite Seal	
						33.0 SILTY fine SAND, heavily tar coated pockets of SAND		
34							Filter Pack (#0 Sand)	
36	NA	NA			PT			
38								
40						40.0 SILTY fine SAND, tar saturated	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
42	NA	NA						
44								
						45.0 Gray CLAY		
46							Grout	
48	NA	NA			CL		6" Diam. SS Sump	
50						50.0		

End of boring at 50.0 ft. bgs.

Remarks: Boring Terminated (ft): 50.0

See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW19

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686535.0 **Easting:** 649213.8	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.8	**Well Screen Interval (ft bgs):** 37-47
Start Date: 3/16/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 52.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8	NA	NA						
10					FILL			
12								
14								
15.0						FILL material, tar coated		
16							Bentonite Grout	
18	NA	NA						
20								
20.0						PEAT/organic material		
22								
24	NA	NA			PT			
26								

Remarks: Boring Terminated (ft): 52.0

See boring logs PDI-6, PDI-8, and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

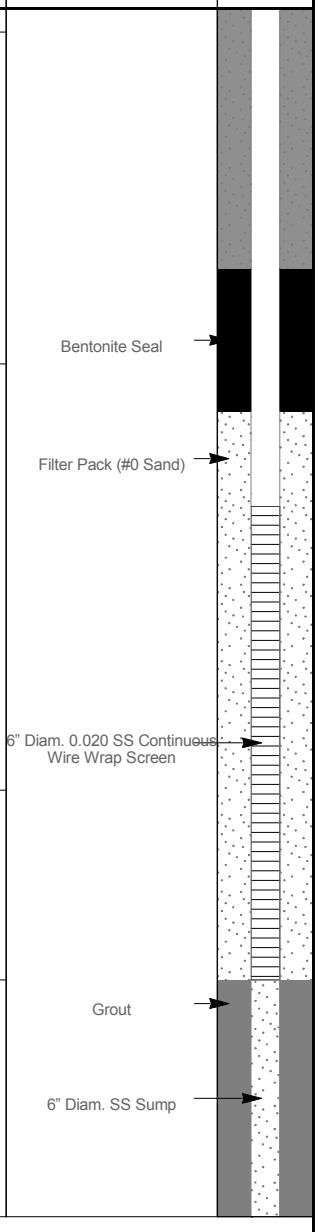
Boring and Well Construction Log

BORING #: RW19

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686535.0 **Easting:** 649213.8	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.8	**Well Screen Interval (ft bgs):** 37-47
Start Date: 3/16/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 52.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS
					PT	27.0 PEAT/organic material *(continued)*
28						SILTY fine SAND
30	NA	NA			SP	
32						
34						34.0
36						CLAY/SILT
38	NA	NA			CL	
40						
42						43.0
44						SILTY fine SAND, tar saturated
46	NA	NA			SP	
48						47.0
50	NA	NA			CL	CLAY
52						52.0

End of boring at 52.0 ft. bgs.



Remarks: Boring Terminated (ft): 52.0

See boring logs PDI-6, PDI-8, and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW2

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686651.6 **Easting:** 649130.1	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.8	**Well Screen Interval (ft bgs):** 36-46
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0	NA	NA			Concrete	Approximately 1 foot of CONCRETE		
						1.0 FILL material		
2								
4								
6								
8	NA	NA						
10					FILL			
12								
14								
						15.0 FILL material, tar saturated	Bentonite Grout →	
16	NA	NA				16.0 FILL material		
18	NA	NA					6" Diam. Sch. 40 PVC Riser →	
	NA	NA				18.0 FILL material, heavily tar coated		
						19.0		
20						PEAT/organic material		
22								
24	NA	NA			PT			
26								

Remarks: Boring Terminated (ft): 51.0

See boring log SB-29/MW-15B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

Boring and Well Construction Log

BORING #: RW2

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686651.6 **Easting:** 649130.1	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.8	**Well Screen Interval (ft bgs):** 36-46
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28					PT	PEAT/organic material *(continued)*		
						28.0		
30	NA	NA			SP	SILTY fine SAND		
						30.0		
32	NA	NA			ML-CL	SILT/CLAY	Bentonite Seal	
34						34.5		
	NA	NA				35.0 SILTY fine SAND, tar saturated	Filter Pack (#0 Sand)	
36	NA	NA				SILTY fine SAND		
						36.5		
38						SILTY fine SAND, tar saturated		
40					SP			
42	NA	NA					6" Diam. 0.020 SS Continuous Wire Wrap Screen	
44								
46						46.0		
48	NA	NA			CL	CLAY	Grout	
50							6" Diam. SS Sump	
						51.0		

End of boring at 51.0 ft. bgs.

Remarks: Boring Terminated (ft): 51.0

See boring log SB-29/MW-15B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

Boring and Well Construction Log

BORING #: RW20

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686528.5 **Easting:** 649194.6	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 13.0	**Well Screen Interval (ft bgs):** 37-47
Start Date: 3/15/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 52.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material	6" Diam. Sch. 40 PVC Riser	
2								
4								
6								
8								
10	NA	NA			FILL			
12								
14								
16							Bentonite Grout	
18								
19.0						FILL material, tar coated		
20	NA	NA						
21.0						PEAT/organic material		
22								
24					PT			
26	NA	NA						

Remarks: Boring Terminated (ft): 52.0

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW20

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686528.5 **Easting:** 649194.6	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 13.0	**Well Screen Interval (ft bgs):** 37-47
Start Date: 3/15/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 52.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28					PT	PEAT/organic material *(continued)*		
30						30.0		
32	NA	NA				SILTY fine SAND		
34							Bentonite Seal	
36							Filter Pack (#0 Sand)	
38					SP	37.0 SILTY fine SAND, tar saturated		
40								
42	NA	NA					6" Diam. 0.020 SS Continuous Wire Wrap Screen	
44								
46								
48						47.0 CLAY	Grout	
50	NA	NA			CL		6" Diam. SS Sump	
52						52.0		

End of boring at 52.0 ft. bgs.

Remarks: Boring Terminated (ft): 52.0

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW21

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686522.0 **Easting:** 649175.7	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 13.2	**Well Screen Interval (ft bgs):** 35-45
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8	NA	NA			FILL			
10								
12								
14								
16							Bentonite Grout	
						16.0		
	NA	NA				FILL material, tar coated		
						17.0		
18	NA	NA				FILL material, tar saturated		
						18.0		
20						PEAT/organic material		
22	NA	NA			PT			
24								
26								
						26.0		
					SP	SILTY fine SAND		

Remarks: Boring Terminated (ft): 50.0

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

Boring and Well Construction Log

BORING #: RW21

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686522.0 **Easting:** 649175.7	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 13.2	**Well Screen Interval (ft bgs):** 35-45
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28						SILTY fine SAND *(continued)*		
30								
32	NA	NA					Bentonite Seal	
34							Filter Pack (#0 Sand)	
36					SP			
38								
						39.0 SILTY fine SAND, tar saturated		
40							6" Diam. 0.020 SS Continuous Wire Wrap Screen	
42	NA	NA						
44								
						45.0 CLAY		
46							Grout	
48	NA	NA			CL		6" Diam. SS Sump	
50						50.0		

End of boring at 50.0 ft. bgs.

Remarks: Boring Terminated (ft): 50.0

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW22

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:**	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/16/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
	NA	NA				Concrete		
						1.0 FILL material		
2								
	NA	NA						
4						4.0 Concrete slab		
	NA	NA				5.0 FILL material	6" Diam. Sch. 40 PVC Riser →	
6								
8								
10					FILL			
12	NA	NA						
							Bentonite Grout →	
14								
16								
18						18.0		
	NA	NA				FILL material, tar coated		
20						20.0		
22						PEAT/organic material		
	NA	NA			PT			
24						25.0		
26					SP	SILTY fine SAND, bands of tar coating/staining		

Remarks: Boring Terminated (ft): 46.0

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW22

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:**	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/16/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA			SP	SILTY fine SAND, bands of tar coating/staining *(continued)*	Bentonite Seal	
30							Filter Pack (#0 Sand)	
32								
34								
35.0								
36	NA	NA				SILTY fine SAND, tar saturated	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38								
40								
41.0								
42	NA	NA			CL	CLAY	Grout	
44							6" Diam. SS Sump	
46								
46.0								

End of boring at 46.0 ft. bgs.

Remarks: Boring Terminated (ft): 46.0

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW23

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:**	**Well Screen Interval (ft bgs):** 24-39
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 44.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						Concrete		
2	NA	NA						
						2.0 FILL material		
4	NA	NA						
						4.0 Concrete slab		
	NA	NA					6" Diam. Sch. 40 PVC Riser	
6								
8								
10					FILL		Bentonite Grout	
12	NA	NA						
14								
16								
18								
20						20.0		
						PEAT/organic material	Bentonite Seal	
22	NA	NA			PT			
24							Filter Pack (#0 Sand)	
						25.0		
26					SP	SILTY fine SAND, tar saturated		

Remarks: Boring Terminated (ft): 44.0

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW23

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:**	**Well Screen Interval (ft bgs):** 24-39
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 44.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA				SILTY fine SAND, tar saturated *(continued)*		
30						30.0 SILTY fine SAND		
32	NA	NA			SP		6" Diam. 0.020 SS Continuous Wire Wrap Screen	
34								
36	NA	NA				35.0 SILTY fine SAND, tar saturated		
38						39.0		
40	NA	NA			CL	CLAY	Grout	
42							6" Diam. SS Sump	
44						44.0		

End of boring at 44.0 ft. bgs.

Remarks: Boring Terminated (ft): 44.0

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW3

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686627.3 **Easting:** 649138.9	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 11.7	**Well Screen Interval (ft bgs):** 31-46
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 53.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8								
10	NA	NA			FILL			
12								
14							Bentonite Grout	
16								
18								
20								
	NA	NA				20.5 21.0 FILL material, heavily tar coated		
22						PEAT/organic material		
24					PT			
26	NA	NA						

Remarks: Boring Terminated (ft): 53.0

See boring logs SB-29/MW-15B and SB-9 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

Boring and Well Construction Log

BORING #: RW3

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686627.3 **Easting:** 649138.9	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 11.7	**Well Screen Interval (ft bgs):** 31-46
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 53.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28					PT	PEAT/organic material *(continued)*	Bentonite Seal	
30						30.0	Filter Pack (#0 Sand)	
32	NA	NA			SP	SILTY fine SAND 32.0		
	NA	NA				32.5 SILTY fine SAND, tar saturated		
	NA	NA				33.0 SILTY fine SAND		
34	NA	NA			ML-CL	SILT/CLAY		
36						36.0		
	NA	NA			SP	SILTY fine SAND 37.0		
38	NA	NA				SILTY fine SAND, tar saturated	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
40								
42						41.5		
	NA	NA			SC	Interbedded SANDY CLAY unit, tar saturated 43.0		
44	NA	NA			CL	CLAY		
46	NA	NA			SP	45.0 SILTY fine SAND, tar saturated 46.0		
48						CLAY	Grout	
50	NA	NA			CL		6" Diam. SS Sump	
52						53.0		

End of boring at 53.0 ft. bgs.

Remarks: Boring Terminated (ft): 53.0

See boring logs SB-29/MW-15B and SB-9 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW4

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686560.2 **Easting:** 649162.3	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.4	**Well Screen Interval (ft bgs):** 36-46
Start Date: 3/21/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							Bentonite Seal	
8							6" Diam. Sch. 40 PVC Riser	
10	NA	NA			FILL			
12								
14								
16							Filter Pack (#0 Sand)	
18								
20						20.0	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
	NA	NA				FILL material, tar saturated 21.0		
22						PEAT/organic material		
24	NA	NA			PT		6" Diam. Sch. 40 PVC Riser	
26						26.0		
					SP	SILTY fine SAND		

Remarks: Boring Terminated (ft): 51.0

See boring log SB-5 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW4

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686560.2 **Easting:** 649162.3	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.4	**Well Screen Interval (ft bgs):** 36-46
Start Date: 3/21/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA			SP	SILTY fine SAND *(continued)*	Bentonite Seal	
30								
32								
34							Filter Pack (#0 Sand)	
36								
38	NA	NA			CL	37.0 CLAY		
40	NA	NA			SP	39.0 SILTY fine SAND	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
42								
44	NA	NA				44.0 SILTY fine SAND, tar saturated		
46	NA	NA			CL	46.0 CLAY	Grout	
48								
50	NA	NA				51.0	6" Diam. SS Sump	

End of boring at 51.0 ft. bgs.

Remarks: Boring Terminated (ft): 51.0

See boring log SB-5 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW5

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686541.0 **Easting:** 649169.1	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.6	**Well Screen Interval (ft bgs):** 32-42
Start Date: 3/21/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material	6" Diam. Sch. 40 PVC Riser	
2								
4								
6								
8								
10	NA	NA			FILL			
12								
14							Bentonite Grout	
16								
18						18.0		
20	NA	NA				FILL material, tar coated, coal from 19 -21 ft bgs		
22						21.0		
24					PT	PEAT/organic material		
26	NA	NA						

Remarks: Boring Terminated (ft): 51.0

See boring logs SB-5, SB-21, and PDI-8 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

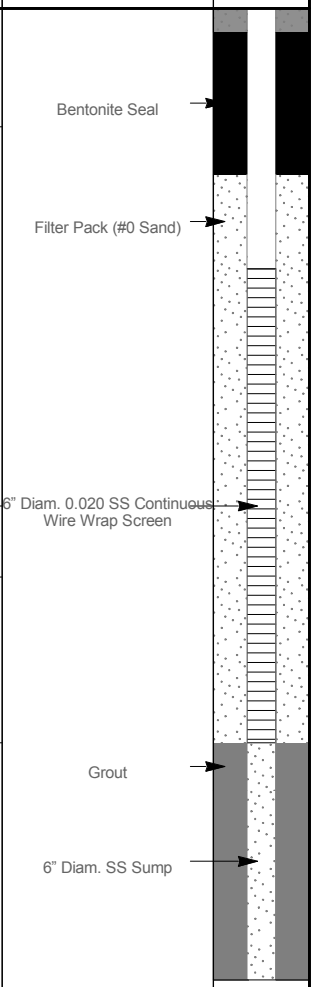
AECOM Boring and Well Construction Log

BORING #: RW5

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686541.0 **Easting:** 649169.1	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.6	**Well Screen Interval (ft bgs):** 32-42
Start Date: 3/21/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS
28					PT	PEAT/organic material *(continued)*
						29.0
30	NA	NA				SILTY fine SAND
32						32.0
34	NA	NA			SP	SILTY fine SAND, streaks of tar staining and tar coating
						35.0
36	NA	NA				SILTY fine SAND
						37.0
38	NA	NA			CL	CLAY
						38.5
40	NA	NA			SP	SILTY fine SAND, pockets of tar coating/saturation
42						42.0
44	NA	NA			CL	CLAY
46						
48						
50						
						51.0

End of boring at 51.0 ft. bgs.



Remarks: Boring Terminated (ft): 51.0

See boring logs SB-5, SB-21, and PDI-8 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW6

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686749.6 **Easting:** 649175.5	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 32-42
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 47.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8							Bentonite Seal	
10	NA	NA			FILL			
12								
14								
16							Filter Pack (#0 Sand)	
18						18.0		
	NA	NA				FILL material, tar saturated		
20						19.0 PEAT/organic material	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
22	NA	NA			PT			
24						24.0		
	NA	NA				SILTY fine SAND, tar coated	6" Diam. Sch. 40 PVC Riser	
26					SP	25.0 SILTY fine SAND, tar coated		

Remarks: Boring Terminated (ft): 47.0

See boring log PDI-1 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

Boring and Well Construction Log

BORING #: RW6

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686749.6 **Easting:** 649175.5	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 32-42
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 47.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA				SILTY fine SAND, tar coated *(continued)*	Bentonite Seal	
30						30.0 SILTY fine SAND		
32	NA	NA				32.0 SILTY fine SAND, tar saturated	Filter Pack (#0 Sand)	
34					SP			
36								
38	NA	NA					6" Diam. 0.020 SS Continuous Wire Wrap Screen	
40								
42						42.0		
44	NA	NA			CL	CLAY	Grout	
46						47.0	6" Diam. SS Sump	

End of boring at 47.0 ft. bgs.

Remarks: Boring Terminated (ft): 47.0

See boring log PDI-1 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

Boring and Well Construction Log

BORING #: RW7

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686760.4 **Easting:** 649200.0	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 33-43
Start Date: 3/23/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/24/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
2						FILL material		
4								
6							6" Diam. Sch. 40 PVC Riser	
8								
10	NA	NA			FILL			
12								
14							Bentonite Grout	
16								
18								
20						20.0		
22	NA	NA			PT	PEAT/organic material		
24						25.0		
26					SP	SILTY fine SAND, 1" tar saturated layer at 28 ft bgs		

Remarks: Boring Terminated (ft): 50.0

See boring logs PDI-1 and PDI-2 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW7

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686760.4 **Easting:** 649200.0	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 33-43
Start Date: 3/23/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/24/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA				SILTY fine SAND, 1" tar saturated layer at 28 ft bgs *(continued)*		
30						30.0 SILTY fine SAND	Bentonite Seal	
32	NA	NA					Filter Pack (#0 Sand)	
34						33.0 SILTY fine SAND, tar saturated		
36					SP			
38	NA	NA					6" Diam. 0.020 SS Continuous Wire Wrap Screen	
40								
42								
43						43.0 CLAY		
44							Grout	
46	NA	NA			CL		6" Diam. SS Sump	
48								
50						50.0		

End of boring at 50.0 ft. bgs.

Remarks: Boring Terminated (ft): 50.0

See boring logs PDI-1 and PDI-2 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW8

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686765.5 **Easting:** 649218.0	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 33-43
Start Date: 3/23/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/24/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
2	NA	NA			FILL	FILL material	6" Diam. Sch. 40 PVC Riser	
4								
6								
8								
10								
12							Bentonite Grout	
14								
16								
18						18.0		
20	NA	NA			PT	PEAT/organic material, 2" tar saturated layer 18 ft bgs		
22								
24						25.0		
26					SP	SILTY fine SAND		

Remarks: Boring Terminated (ft): 48.0

See boring log PDI-2 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

Boring and Well Construction Log

BORING #: RW8

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686765.5 **Easting:** 649218.0	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 33-43
Start Date: 3/23/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/24/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA			SP	SILTY fine SAND *(continued)*	Bentonite Seal	
30								
32							Filter Pack (#0 Sand)	
34								
36	NA	NA				35.0 SILTY fine SAND, bands of tar saturation	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38								
40	NA	NA						
42						43.0		
44	NA	NA			CL	CLAY	Grout	
46							6" Diam. SS Sump	
48						48.0		

End of boring at 48.0 ft. bgs.

Remarks: Boring Terminated (ft): 48.0

See boring log PDI-2 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW9

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686743.6 **Easting:** 649227.1	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.2	**Well Screen Interval (ft bgs):** 35-45
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material	6" Diam. Sch. 40 PVC Riser	
2								
4								
6								
8	NA	NA			FILL			
10								
12								
14								
16						16.0	Bentonite Grout	
	NA	NA				FILL material, tar stained		
18						17.0		
	NA	NA				FILL material, tar saturated 18.5 to 19 ft bgs		
20						19.0		
						PEAT/organic material		
22	NA	NA			PT			
24								
						25.0		
26					SP	SILTY fine SAND		

Remarks: Boring Terminated (ft): 50.0

See boring logs PDI-3 and SB-3B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW9

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686743.6 **Easting:** 649227.1	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.2	**Well Screen Interval (ft bgs):** 35-45
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28						SILTY fine SAND *(continued)*		
30	NA	NA						
32					SP		Bentonite Seal	
34							Filter Pack (#0 Sand)	
						35.0		
36	NA	NA				SILTY fine SAND, tar saturated		
						37.0		
38						Interbedded SAND and silt, tar saturated		
40	NA	NA			SM		6" Diam. 0.020 SS Continuous Wire Wrap Screen	
42								
44						44.5		
						CLAY		
46							Grout	
48	NA	NA			CL		6" Diam. SS Sump	
50						50.0		

End of boring at 50.0 ft. bgs.

Remarks: Boring Terminated (ft): 50.0

See boring logs PDI-3 and SB-3B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

AECOM Boring and Well Construction Log

BORING #: RW17

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Kristen Durocher
Project: Equity Former MGP Site	**Northing:** 686548.9 **Easting:** 649253.9	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.4	**Well Screen Interval (ft bgs):** 28-43
Start Date: 4/8/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 4/10/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
2					Fill	Fill material, some brick fragments and glass.	6" Diam. Sch. 40 PVC Riser	
4								
6								
8								
10								
11.0								
12	NA	NA			ML	Sandy Silt, grey to black, fine grained, some coarse to fine gravel.	Bentonite Grout	
14								
15.0								
16	NA	NA			PT	Fibrous and Friable Peat		
18								
20								
22								
24							Bentonite Seal	
26								
26.0								

Remarks: Boring Terminated (ft): 48.0

See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW17

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Kristen Durocher
Project: Equity Former MGP Site	**Northing:** 686548.9 **Easting:** 649253.9	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.4	**Well Screen Interval (ft bgs):** 28-43
Start Date: 4/8/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 4/10/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
26								
28	NA	NA			SP	SAND, tar saturated/Sand tar coated	Filter Pack (#0 Sand)	
30								
32								
34								
36							6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38								
40								
42	NA	NA				43.0		
44	NA	NA			CL	CLAY	Grout	
46							6" Diam. SS Sump	
48						48.0		

End of boring at 48.0 ft. bgs.

Remarks: Boring Terminated (ft): 48.0

See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

Appendix B

Air Monitoring Data

Table B-1
Community Air Monitoring Plan Data

Date	Time	Upwind PID (ppm)	Upwind Dust (mg/m^3)	Work Area PID (ppm)	Downwind PID (ppm)	Downwind Dust (mg/m^3)	Corrected PID (ppm)	Corrected Dust (mg/m^3)
3/10/2013	8:00	0.1	0.078	0	0.1	0.162	0.1	0.084
3/10/2013	8:20	0.1	0.091	0	0.1	0.148	0.1	0.057
3/10/2013	8:40	0	0.157	0	0.3	0.169	0.3	0.012
3/10/2013	8:55	0.1	0.096	0	0.3	0.16	0.2	0.064
3/10/2013	9:10	0	0.116	0	0.3	0.136	0.3	0.02
3/10/2013	9:30	0.1	0.075	0	0.3	0.056	0.2	-0.019
3/10/2013	9:45	0.1	0.072	0	0.3	0.129	0.2	0.057
3/10/2013	10:00	0	0.077	0	0.1	0.079	0.1	0.002
3/10/2013	10:15	0	0.081	0	0	0.089	0	0.008
3/10/2013	10:45	0	0.098	0	0	0.106	0	0.008
3/10/2013	11:10	0	0.132	0	0	0.109	0	0.109
3/10/2013	11:15	0	0.141	0	0	0.81	0	0.669
3/10/2013	11:32	0	0.119	0	0	0.85	0	0.731
3/12/2013	7:15	0	n/a	0	0	0.017	0	0.017
3/12/2013	7:30	0	n/a	0	0	0.027	0	0.027
3/12/2013	7:48	0	n/a	0	0	0.021	0	0.021
3/12/2013	8:10	0	n/a	0	0	0.024	0	0.024
3/12/2013	8:40	0	n/a	0	0	0.028	0	0.028
3/12/2013	9:00	0	n/a	0	0.2	0.025	0.2	0.025
3/12/2013	9:15	0	n/a	0	0.2	0.024	0.2	0.024
3/12/2013	9:35	0	n/a	0	0.2	0.032	0.2	0.032
3/12/2013	10:00	0.2	n/a	0	0	0.029	0.2	0.029
3/12/2013	10:15	0.2	n/a	0	0	0.03	0.2	0.03
3/12/2013	10:34	0.3	n/a	0	0	0.027	0.3	0.027
3/12/2013	10:57	0.2	n/a	0	0	0.014	0.2	0.014
3/12/2013	11:11	0.1	n/a	n/a	n/a	n/a	0.1	
3/13/2013	7:20	0	0.083	0	0	0.088	0	0.005
3/13/2013	7:40	0	0.068	0	0	0.107	0	0.039
3/13/2013	8:05	0	0.061	0	0	0.074	0	0.013
3/13/2013	8:25	0	0.066	0	0	0.089	0	0.023
3/13/2013	8:45	0	0.061	0	0	0.112	0	0.051
3/13/2013	9:05	0	0.054	0	0	0.178	0	0.124
3/13/2013	9:25	0	0.062	0	0	0.076	0	0.014
3/13/2013	9:50	0	0.068	0	0	0.073	0	0.005
3/13/2013	10:10	0	0.074	0	0.3	0.069	0.3	0.069
3/13/2013	10:35	0	0.05	0.3	0.2	0.092	0.2	0.042
3/13/2013	11:00	0	0.052	0.4	0	0.108	0	0.056
3/13/2013	11:25	0	0.059	0.4	0.1	0.087	0.1	0.028
3/13/2013	11:42	0	0.104	0.3	0.3	0.061	0.3	0.061
3/13/2013	12:00	0	0.078	0.3	0.3	0.104	0.3	0.026
3/13/2013	12:30	0	0.067	0.4	0.5	0.177	0.5	0.11
3/14/2013	9:10	0.2	0.029	0	0	0.024	0.2	0.024
3/14/2013	9:30	0.2	0.024	0	0	0.028	0.2	0.004
3/14/2013	9:50	0.2	0.056	0	0	0.029	0.2	0.029
3/14/2013	10:10	0.2	0.051	0	0	0.068	0.2	0.017
3/14/2013	10:34	0.2	0.059	0	0	0.072	0.2	0.013
3/14/2013	11:00	0.2	0.082	0	0	0.099	0.2	0.017
3/14/2013	11:20	0.3	0.033	0	0	0.061	0.3	0.028
3/14/2013	11:42	0.2	0.047	0	0	0.053	0.2	0.006
3/14/2013	12:05	0.2	0.036	0	0	0.05	0.2	0.014
3/14/2013	12:25	0.4	0.031	0	0	0.087	0.4	0.056
3/14/2013	12:40	0.3	0.033	0	0	0.057	0.3	0.024
3/14/2013	13:00	0.3	0.049	0	0	0.066	0.3	0.017
3/14/2013	13:20	0.2	0.043	0	0	0.064	0.2	0.021
3/23/2013	8:10	0.2	0.065	0	0	0.06	0.2	0.06
3/23/2013	8:25	0.2	0.054	0	0	0.07	0.2	0.016
3/23/2013	8:40	0.3	0.075	0	0	0.052	0.3	0.052
3/23/2013	9:00	0.3	0.074	0	0	0.058	0.3	0.058
3/23/2013	9:18	0.3	0.051	0	0	0.046	0.3	0.046
3/23/2013	9:34	0.2	0.071	0	0	0.153	0.2	0.082
3/23/2013	9:47	0.2	0.018	0	0	0.155	0.2	0.137
3/23/2013	10:05	0.3	0.002	0	0	0.118	0.3	0.116
3/23/2013	10:20	0.3	0.131	0	0	0.155	0.3	0.024
3/23/2013	10:37	0.4	0.03	0	0	0.123	0.4	0.093
3/23/2013	10:55	0.3	0.143	0	0	0.12	0.3	0.12
3/23/2013	11:10	0.3	0.094	0	0	0.12	0.3	0.026
3/23/2013	11:30	0.3	0.055	0	0	0.096	0.3	0.041
3/23/2013	11:46	0.4	0.043	0	0	0.135	0.4	0.092
3/23/2013	12:00	0.3	0.02	0	0	0.108	0.3	0.088

Table B-1
Community Air Monitoring Plan Data

Date	Time	Upwind PID (ppm)	Upwind Dust (mg/m^3)	Work Area PID (ppm)	Downwind PID (ppm)	Downwind Dust (mg/m^3)	Corrected PID (ppm)	Corrected Dust (mg/m^3)
3/23/2013	12:15	0.3	0.022	0	0	0.111	0.3	0.089
3/23/2013	12:30	0.3	0.028	0	0	0.157	0.3	0.129
3/23/2013	12:45	0.3	0.036	0	0	0.092	0.3	0.056
3/23/2013	13:00	0.4	0.339	0	0	0.171	0.4	0.171
3/23/2013	13:17	0.4	0.01	0	0	0.32	0.4	0.31
3/23/2013	13:32	0.3	0.16	0	0	0.087	0.3	0.087
3/23/2013	13:48	0.3	0.052	0	0	0.158	0.3	0.106
3/23/2013	14:00	0.3	0.147	0	0	0.12	0.3	0.12
3/23/2013	14:15	0.3	0.017	0	0	0.118	0.3	0.101
3/23/2013	14:30	0.3	0	0	0	0.15	0.3	0.15
3/23/2013	14:50	0.3	0.002	0	0	0.116	0.3	0.114
3/28/2013	7:30	0	0.161	0	0.2	0.083	0.2	0.083
3/28/2013	7:45	0	0.158	0	0.3	0.078	0.3	0.078
3/28/2013	8:00	0	0.144	0	0.3	0.086	0.3	0.086
3/28/2013	8:15	0	0.103	0	0.3	0.81	0.3	0.707
3/28/2013	8:30	0	0.115	0	0	0.076	0	0.076
3/28/2013	8:47	0	0.107	0	0.1	0.053	0.1	0.053
3/28/2013	9:05	0	0.99	0	0	0.089	0	0.089
3/28/2013	9:30	0	0.83	0	0.1	0.093	0.1	0.093
3/28/2013	9:53	0	0.113	0	0	0.117	0	0.004
3/28/2013	10:10	0	0.107	0	0	0.053	0	0.053
3/28/2013	10:15	0.1	0.121	0	0	0.062	0.1	0.062
3/28/2013	10:37	0	0.139	0	0	0.079	0	0.079
3/28/2013	11:00	0.1	0.143	0	0.1	0.63	0	0.487
3/29/2013	10:10	0.3	0.136	0	0	0.008	0.3	0.008
3/29/2013	10:25	0.2	0.131	0	0	0.023	0.2	0.023
3/29/2013	10:40	0.2	0.144	0	0	0.127	0.2	0.127
3/29/2013	10:58	0	0.108	0	0	0.016	0	0.016
3/29/2013	11:15	0.3	0.099	0	0	0.009	0.3	0.009
3/29/2013	11:30	0.2	0.089	0	0	0.014	0.2	0.014
3/29/2013	11:47	0.2	0.122	0	0	0.027	0.2	0.027
3/29/2013	12:05	0.2	0.104	0	0	0.031	0.2	0.031
3/30/2013	6:50	0	0.101	0	0	0.089	0	0.089
3/30/2013	7:05	0	0.153	0	0	0.096	0	0.096
3/30/2013	7:22	0	0.044	0	0.1	0.117	0.1	0.073
3/30/2013	7:37	0.1	0.116	0	0	0.033	0.1	0.033
3/30/2013	7:52	0	0.121	0	0	0.052	0	0.052
3/30/2013	8:08	0.1	0.108	0	0	0.162	0.1	0.054
3/30/2013	8:25	0.2	0.113	0	0	0.073	0.2	0.073
3/30/2013	8:55	0.3	0.134	0	0	0.094	0.3	0.094
3/30/2013	9:20	0.3	0.159	0	0	0.111	0.3	0.111
3/30/2013	9:50	0.3	0.0171	0	0	0.073	0.3	0.0559
3/30/2013	10:17	0.3	0.062	0	0	0.092	0.3	0.03
3/30/2013	10:38	0.4	0.054	0	0	0.127	0.4	0.073
3/30/2013	11:00	0.3	0.067	0	0	0.134	0.3	0.067
3/30/2013	11:20	0.4	0.073	0	0	0.125	0.4	0.052
3/30/2013	11:43	0.4	0.061	0	0	0.116	0.4	0.055
3/30/2013	12:00	0.3	0.068	0	0	0.132	0.3	0.064
4/1/2013	7:05	0	n/a	0	0	0.034	0	0.034
4/1/2013	7:25	0	n/a	0	0	0.045	0	0.045
4/1/2013	7:45	0.1	n/a	0	0	0.053	0.1	0.053
4/1/2013	8:05	0.2	0.137	0	0	0.038	0.2	0.038
4/1/2013	8:28	0.2	0.141	0	0	0.136	0.2	0.136
4/1/2013	8:46	0.3	0.142	0	0	0.139	0.3	0.139
4/1/2013	9:10	0.3	0.145	0	0	0.127	0.3	0.127
4/1/2013	9:30	0.3	0.108	0	0	0.11	0.3	0.002
4/1/2013	9:48	0.4	0.197	0	0	0.244	0.4	0.047
4/1/2013	10:08	0.4	0.151	0	0	0.278	0.4	0.127
4/1/2013	10:20	0.2	0.088	0	0	0.157	0.2	0.069
4/1/2013	11:00	0.3	0.091	0	0	0.141	0.3	0.05
4/1/2013	11:23	0.2	0.077	0	0	0.627	0.2	0.55
4/1/2013	11:45	0.2	0.081	0	0	0.148	0.2	0.067
4/1/2013	12:02	0.1	0.07	0	0	0.203	0.1	0.133
4/2/2013	7:45	0	0.061	0	0	0.08	0	0.019
4/2/2013	8:02	0	0.059	0	0	0.078	0	0.019
4/2/2013	8:20	0	0.065	0	0	0.082	0	0.017
4/2/2013	8:38	0	0.07	0	0	0.09	0	0.02
4/2/2013	8:56	0	0.098	0	0	0.133	0	0.035
4/2/2013	9:12	0.1	0.0186	0	0	0.169	0.1	0.1504

Table B-1
Community Air Monitoring Plan Data

Date	Time	Upwind PID (ppm)	Upwind Dust (mg/m^3)	Work Area PID (ppm)	Downwind PID (ppm)	Downwind Dust (mg/m^3)	Corrected PID (ppm)	Corrected Dust (mg/m^3)
4/2/2013	9:30	0	0.193	0	0.2	0.213	0.2	0.02
4/2/2013	10:00	0	0.25	0	0.2	0.251	0.2	0.001
4/2/2013	10:16	0.3	0.083	0	0	0.122	0.3	0.039
4/2/2013	10:34	0.5	0.211	0	0	0.118	0.5	0.118
4/2/2013	11:00	0.4	0.233	0	0	0.123	0.4	0.123
4/2/2013	11:22	0.4	0.204	0	0	0.11	0.4	0.11
4/2/2013	11:40	0.3	0.237	0	0	0.116	0.3	0.116
4/3/2013	6:50	0	0.082	0	0	0.087	0	0.005
4/3/2013	7:10	0	0.075	0	0	0.089	0	0.014
4/3/2013	7:25	0	0.033	0	0	0.156	0	0.123
4/3/2013	8:37	0.6	0.119	0	0.1	0.108	0.6	0.108
4/3/2013	9:15	0.6	0.123	0	0.1	0.108	0.6	0.108
4/3/2013	9:45	0.5	0.138	0	0.1	0.144	0.5	0.006
4/3/2013	10:20	0.6	0.166	0	0.1	0.114	0.6	0.114
4/3/2013	11:30	0.6	0.155	0	0.1	0.123	0.6	0.123
4/4/2013	8:00	0	0.082	0	0	0.129	0	0.047
4/4/2013	8:30	0	0.099	0	0	0.117	0	0.018
4/4/2013	9:00	0.1	0.274	0	0	0.223	0.1	0.223
4/4/2013	9:30	0	0.141	0	0	0.105	0	0.105
4/4/2013	10:15	0	0.095	0	0	0.084	0	0.084
4/4/2013	11:00	0	0.9	0	0	0.93	0	0.03
4/4/2013	11:30	0	0.082	0	0	0.174	0	0.092
4/4/2013	11:55	0	0.081	0	n/a	n/a	0	
4/5/2013	7:25	0	0.133	0	0	0.157	0	0.024
4/5/2013	7:50	0	0.123	0	0	0.164	0	0.041
4/5/2013	8:10	0	0.085	0	0	0.079	0	0.079
4/5/2013	8:30	0	0.093	0	0	0.2	0	0.107
4/5/2013	8:47	0	0.082	0	0	0.167	0	0.085
4/5/2013	9:20	0	0.091	0	0	0.171	0	0.08
4/5/2013	9:50	0	0.121	0	0	0.203	0	0.082
4/5/2013	10:10	0	0.194	0	0	0.132	0	0.132
4/5/2013	10:30	0	0.136	0	0	0.157	0	0.021
4/5/2013	10:48	0	0.147	0	0	0.166	0	0.019
4/5/2013	11:04	0	0.153	0	0	0.181	0	0.028
4/5/2013	11:20	0	0.119	0	0	0.202	0	0.083
4/5/2013	11:45	0	0.103	0	0	0.133	0	0.03
4/5/2013	12:00	0	0.159	0	0	0.211	0	0.052
4/5/2013	12:23	0	0.167	0	0	0.208	0	0.041
4/5/2013	12:48	0	0.178	0	0	0.202	0	0.024
4/5/2013	13:10	0	0.115	0	0	0.171	0	0.056
4/5/2013	13:25	0	0.128	0	0	0.14	0	0.012
4/11/2013	11:00	0.1	0.029	0	0	0.038	0.1	0.009
4/11/2013	11:15	0	0.03	0	0	0.039	0	0.009
4/11/2013	11:30	0	0.041	0	0.1	0.043	0.1	0.002
4/11/2013	11:45	0	0.026	0	0.1	0.028	0.1	0.002
4/11/2013	12:02	0	0.023	0	0.1	0.028	0.1	0.005
4/11/2013	12:20	0	0.026	0	0.1	0.031	0.1	0.005
4/11/2013	12:36	0	0.025	0	0.1	0.03	0.1	0.005
4/11/2013	14:00	0	0.031	0	0.1	0.042	0.1	0.011
4/11/2013	13:22	0	0.033	0	0.1	0.041	0.1	0.008
4/13/2013	6:50	0	NM	NM	0.5	NM	0.5	
4/13/2013	7:40	0	0.028	NM	0.3	0.007	0.3	0.007
4/13/2013	8:03	0	0.1	NM	0	0.01	0	0.01
4/13/2013	9:00	0.3	0.056	NM	0	0.035	0.3	0.035
4/13/2013	9:36	0	0.07	NM	0	0.023	0	0.023
4/13/2013	10:10	0.4	0.161	NM	0	0.043	0.4	0.043
4/13/2013	10:36	0.4	0.06	NM	0.1	0.032	0.4	0.032
4/13/2013	10:57	0.3	0.061	NM	0	0.027	0.3	0.027
4/13/2013	11:12	0.2	0.021	NM	0.4	0.028	0.2	0.007
4/13/2013	11:26	0.2	0.05	NM	0.3	0.023	0.1	0.023
4/15/2013	6:35	0	0.021	0	0	0.006	0	0.006
4/15/2013	6:52	0	0.023	0	0	0.005	0	0.005
4/15/2013	7:10	0.1	0.027	0	0.1	0.008	0	0.008
4/15/2013	7:32	0.1	0.049	0	0.1	0.017	0	0.017
4/15/2013	7:53	0.1	0.025	0	0.2	0.007	0.1	0.007
4/15/2013	8:10	0.1	0.011	0	0.2	0.013	0.1	0.002
4/15/2013	8:30	0.1	0.013	0	0.2	0.01	0.1	0.01
4/15/2013	8:55	0.1	0.017	0	0.2	0.008	0.1	0.008
4/15/2013	9:20	0.1	0.012	0	0.2	0.011	0.1	0.011

Table B-1
Community Air Monitoring Plan Data

Date	Time	Upwind PID (ppm)	Upwind Dust (mg/m^3)	Work Area PID (ppm)	Downwind PID (ppm)	Downwind Dust (mg/m^3)	Corrected PID (ppm)	Corrected Dust (mg/m^3)
4/15/2013	9:38	0	0.012	0	0.2	0.009	0.2	0.009
4/15/2013	10:03	0	0.01	0	0.2	0.008	0.2	0.008
4/15/2013	10:25	0	0.007	0	0.2	0.009	0.2	0.002
4/15/2013	10:42	0	0.013	0	0.2	0.009	0.2	0.009
4/15/2013	11:00	0	0.014	0	0.2	0.008	0.2	0.008
4/15/2013	11:17	0	0.018	0	0.2	0.008	0.2	0.008
4/15/2013	11:35	0	0.022	0	0.2	0.008	0.2	0.008
4/15/2013	12:00	0	0.015	0	0.2	0.011	0.2	0.011
4/16/2013	7:15	0	0.015	0	0.2	0.02	0.2	0.005
4/16/2013	7:32	0	0.027	0	0.2	0.01	0.2	0.01
4/16/2013	7:50	0	0.018	0	0.2	0.022	0.2	0.004
4/16/2013	8:05	0	0.02	0	0.2	0.01	0.2	0.01
4/16/2013	8:35	0	0.022	0	0.3	0.016	0.3	0.016
4/16/2013	9:00	0	0.027	0	0.3	0.017	0.3	0.017
4/16/2013	9:22	0	0.032	0	0.3	0.024	0.3	0.024
4/16/2013	9:45	0	0.02	0	0.3	0.021	0.3	0.001
4/16/2013	10:00	0	0.047	0	0.3	0.027	0.3	0.027
Average		0.127	0.096				0.172	0.063

Note: some data was not recovered due to malfunction of a data logger. Field notes indicate that results were consistent with other days with similar field activities.

Appendix C

Waste Disposal Documentation

Clean Water of New York, Inc.

Clean Water of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303
Phone: 718-981-4600 Fax: 718-981-5213

JOB RECEIPT

Job Number	Date	Time	Job Type
JOB0123247	4/24/13	12:25 pm	Truck Job

Generator

NATIONAL GRID
222-254 Maspeth Avenue
Brooklyn, NY 11211
(000) 000-0000
EPA Permit #

Customer

ENVIRO TRAC LTD
5 Old Dock Road
Yaphank, NY 11980

PO #: 7278 Job #
Profile Sheet: Yes Approval Code: 1022-002

Transporter

WILLIAM J. LAUER CORP.
3249 Richmond Terrace
Staten Island, NY 10303

EPA Permit #: NYR000157644
NYS DEC Permit #: 2A-531

Transport / Vessel: VAC # 55

# of Tanks: 1
Total Capacity: 6,300
U of M: Gallons

Site / Vessel Name: NATIONAL GRID - EQUITY MPG SITE

Received 5,904 Gallons Of Oily Water For Proper Treatment and Disposal.

Products & Test Results	Category	Code	Description	Quantity	UoM
	D	N018	Oily Water	5,904	Gallons

Compartment	% Water	% Oil	% Solid	Halogens (ppm)	Flash Point (oF)
1	99.00	1.00	0.00	0	>= 100

Other Tests Peformed: No

4/24/13

Receiver's Signature and Date
4/24/2013 12:21 pm

Did this load or any portion of this load orginate at a utility? Yes

Generator's Representative Signature and Date

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. DC 04-11-2013 ~~N Y R 0 0 0 1 8 4 1 8 4~~

Manifest Doc. No. 123061

2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name): William J. Lauer Corp.

6. US EPA ID Number: N Y R 0 0 0 1 5 7 6 4 4

B. State Transporter's ID: 2A-531

C. Transporter 1 Telephone (718) 981-8500

7. Transporter 2 (Company Name)

8. US EPA ID Number

D. State Transporter's ID

E. Transporter 2 Telephone ( )

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number: N Y 0 0 0 0 9 6 8 5 4 5

F. State Facility ID

G. Facility Telephone (718) 981-4600

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS	001	T	5904	Gal	EPA STATE N018
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c. b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800
YAC-55

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P. Campbell
Mo. Day Year: 04 12 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Frederico Mancino
Signature:
Mo. Day Year: 04 24 13

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Mo. Day Year: 04 24 13

ORIGINAL - RETURN TO GENERATOR

Clean Water of New York, Inc.

Clean Water of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303
Phone: 718-981-4600 Fax: 718-981-5213

JOB RECEIPT

Job Number	Date	Time	Job Type
JOB0123262	4/25/13	8:15 am	Truck Job

Generator

NATIONAL GRID
222-254 Maspeth Avenue
Brooklyn, NY 11211
(000) 000-0000
EPA Permit #

Customer

ENVIRO TRAC LTD
5 Old Dock Road
Yaphank, NY 11980

PO #: 7278 Job #
Profile Sheet: Yes Approval Code: 1022-002

Transporter

WILLIAM J. LAUER CORP.
3249 Richmond Terrace
Staten Island, NY 10303

EPA Permit #: NYR000157644
NYS DEC Permit #: 2A-531

Transport / Vessel: VAC # 53

# of Tanks: 1
Total Capacity: 6,300
U of M: Gallons

Site / Vessel Name: NATIONAL GRID - EQUITY MPG SITE

Received 3,569 Gallons Of Oily Water For Proper Treatment and Disposal.

Products & Test Results	Category	Code	Description	Quantity	UoM
	D	N018	Oily Water	3,569	Gallons

Compartment	% Water	% Oil	% Solid	Halogens (ppm)	Flash Point (oF)
1	99.00	1.00	0.00	0	>= 100

Other Tests Peformed: No

04/25/13

Receiver's Signature and Date
4/25/2013 8:13 am

Did this load or any portion of this load orginate at a utility? Yes

Generator's Representative Signature and Date

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ~~NYR000184184~~ D.C 04-11-2013
Manifest Doc. No. 123062
2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name): William J. Lauer Corp.
6. US EPA ID Number: N Y R 0 0 0 1 5 7 6 4 4
B. State Transporter's ID: 2A-531
C. Transporter 1 Telephone (718) 981-8500

7. Transporter 2 (Company Name)
8. US EPA ID Number
D. State Transporter's ID
E. Transporter 2 Telephone ( )

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303
10. US EPA ID Number: N Y 0 0 0 0 9 6 8 5 4 5
F. State Facility ID
G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	12. Containers Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS	001	T	3,569	Gal	EPA / STATE N018
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c. b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. Day Year: 04 25 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: GABINO VILLEGAS
Signature: Gabino Villegas
Mo. Day Year: 04 25 13

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Mo. Day Year: 04 25 13

ORIGINAL - RETURN TO GENERATOR

Bayshore Recycling Corp.
75 Cyclus Mill Rd
PO Box 206
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 227583
Date: 4/24/2013
Time: 09:05:34 - 09:25:18

Customer: ENVIRO TRAC/BRC0850
400 CORPORATE COURT
SUITE E
SOUTH PLAINFIELD, NJ 07080-

Truck: 24740PC

Scale
Gross: 69120 lb In Scale 2
Tare: 29700 lb Out Scale 4
Net: 39420 lb

CUYDs: 25

Truck Type: TRIAXLE

Carrier: AJC TRUCKING INC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	CONCRETE TRIAXLE	19.71	Tons
Brooklyn	REBAR/METAL	19.71	Tons
Brooklyn	GARBAGE *	19.71	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____

Weighmaster: Mark

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 223330
Date: 4/16/2013
Time: 09:18:11 - 09:50:04

			Scale
Gross:	72520 lb	In	Scale 1
Tare:	27440 lb	Out	Scale 3
Net:	45080 lb		

Customer: ENVIRO TRAC/BRC0850
400 CORPORATE COURT
SUITE E
SOUTH PLAINFIELD, NJ 07080-

Truck: 25510PC

CUYDs: 25 License: 25510PC
Truck Type: TRIAXLE

Carrier: AJC TRUCKING INC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	MIXED-BRICK,BLOCK,CONCRET	22.54	Tons
Brooklyn	GARBAGE	22.54	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____

Weighmaster: Andres

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 223557
Date: 4/16/2013
Time: 13:18:51 - 13:30:30

			Scale
Gross:	77340 lb	In	Scale 1
Tare:	27320 lb	Out	Scale 3
Net:	50020 lb		

Customer: ENVIRO TRAC/BRC0050
400 CORPORATE COURT
SUITE E
SOUTH PLAINFIELD, NJ 07080-
Truck: 25510PC

CUYDs: 25 License: 25510PC
Truck Type: TRIAXLE

Carrier: AJC TRUCKING INC
Comments:

Origin	Materials & Services	Quantity	Unit
Brooklyn	CONCRETE TRIAXLE	25.01	Tons
Brooklyn	BIG PIECES OVER 2"	25.01	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____

Weighmaster: Mark

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 223312
Date: 4/16/2013
Time: 09:10:57 - 09:37:31

		Scale
Gross:	78940 lb	In Scale 1
Tare:	27500 lb	Out Scale 4
Net:	51440 lb	

Customer: ENVIRO TRAC/BRC0850
400 CORPORATE COURT
SUITE E
SOUTH PLAINFIELD, NJ 07080-

Truck: 18489PC

CUYDs: 25

License: 18489PC
Truck Type: TRIAXLE

Carrier: AJC TRUCKING INC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	MIXED-BRICK,BLOCK,CONCRET	25.72	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____

Weighmaster: Mark

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 223540
Date: 4/16/2013
Time: 13:13:49 - 13:16:18

Customer: ENVIRO TRAC/BRC0850
400 CORPORATE COURT
SUITE E
SOUTH PLAINFIELD, NJ 07080-
Truck: 18489PC

Scale
Gross: 81860 lb In Scale 1
Tare: 27500 lb P.T.
Net: 54360 lb

CUYDs: 25 License: 18489PC
Truck Type: TRIAXLE

Carrier: AJC TRUCKING INC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	CONCRETE TRIAXLE	27.18	Tons
Brooklyn	BIG PIECES OVER 2'	27.18	Tons
Brooklyn	GARBAGE	27.18	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Drivers: _____

Weighmaster: Alec

BAYSHORE FAMILY OF COMPANIES

Customer/Profile/Date Report

Transactions from 04/16/2013 through 05/02/2013
Inbound Tickets Only
Third Party and Intercompany Customers
Disposal Only
Full Details

Ticket	Material	Manifest	Truck	In / Out	Gross	Tare	Net	Bill Units	Tons
BSM0125 - AARCO ENVIRONMENTAL									
2713-284 - NATIONAL GRID FORMER MGP SITE									
04/19/2013									
225147	27CT	55058	AN828W	I	89940	29440	60500	30.25 TN	30.25
225175	27CT	55059	AN381W	I	83580	29500	54080	27.04 TN	27.04
225205	27CT	55061	AN786K	I	91320	30500	60820	30.41 TN	30.41
225232	27CT	55062	AN809P	I	84200	27240	56960	28.48 TN	28.48
225270	27CT	55060	AP191K	I	87120	29800	57320	28.66 TN	28.66
04/19/2013 *5 tickets and 5 transactions*									144.84
04/23/2013									
226767	27CT	E0134255	AN809P	I	84180	27240	56940	28.47 TN	28.47
226785	27CT	E0134254	AP414M	I	86840	28480	58360	29.18 TN	29.18
227073	27CT	E0134256	AN732R	I	88220	28940	59280	29.64 TN	29.64
227091	27CT	E0134258	AN809P	I	87000	27240	59760	29.88 TN	29.88
227094	27CT	E0134257	AP414M	I	92920	28540	64380	32.19 TN	32.19
227313	27CT	E0134259	AN732R	I	90120	28940	61180	30.59 TN	30.59
04/23/2013 *6 tickets and 6 transactions*									179.95
04/29/2013									
229622	27CT	E0134261	AN700H	I	75040	29080	45960	22.98 TN	22.98
229638	27CT	E0134262	AP414M	I	86440	28540	57900	28.95 TN	28.95
229649	27CT	E0134263	AN809P	I	89120	27240	61880	30.94 TN	30.94
229717	27CT	E0134264	AP964K	I	86700	28340	58360	29.18 TN	29.18
229889	27CT	E0134265	AN700H	I	68840	29080	39760	19.88 TN	19.88

Customer: BSM0125
Profile: 2713-284
Exclude Material: TRANS
Site ID: All

BAYSHORE FAMILY OF COMPANIES

Customer/Profile/Date Report

Transactions from 04/16/2013 through 05/02/2013
Inbound Tickets Only
Third Party and Intercompany Customers
Disposal Only
Full Details

Ticket	Material	Manifest	Truck	In / Out	Gross	Tare	Net	Bill Units	Tons
BSM0125 - AARCO ENVIRONMENTAL									
2713-284 - NATIONAL GRID FORMER MGP SITE									
04/29/2013									
5 tickets and 5 transactions									131.93
05/02/2013									
231490	27CT	E0134260	16429PC	I	64980	36040	28940	14.47 TN	14.47
05/02/2013									
1 ticket and 1 transaction									14.47
2713-284 - NATIONAL GRID FORMER MGP SITE									
17 tickets and 17 transactions									471.19
BSM0125 - AARCO ENVIRONMENTAL									
17 tickets and 17 transactions									471.19
Report Grand Totals									
17 tickets and 17 transactions									471.19

End of Report

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WATER MANIFEST

1. Generator's US EPA ID No. NONE

Manifest Doc. No. 55061

2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address

11201 NY

4. Generator's Phone ( )

5. Transporter 1 Company Name
AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number
N.Y.R.0.0.0.1.0.7.3.2.6

A. Transporter's Phone
631-586-5900

7. Transporter 2 Company Name
DI TRUCKING

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.				
b.	1	T		
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: DONALD P CAMPBELL

Signature: Donald P Campbell

Month: 04 Day: 15 Year: 13

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name: RONILDO DESOUZA

Signature

Month: 04 Day: 15 Year: 13

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR'S COPY

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WATER MANIFEST

1. Generator's US EPA ID No. NONE

Manifest Doc. No. 55060

2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address

11201 NY

4. Generator's Phone ( )

5. Transporter 1 Company Name
AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number
N Y R 0 0 0 0 1 0 7 3 2 6

A. Transporter's Phone
631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.	001	NT		
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: DONALD P CAMPBELL | Signature | Month 01 | Day 21 | Year 13

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR'S COPY

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WATER MANIFEST

1. Generator's US EPA ID No. NONE

Manifest Doc. No. 55059

2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address

4. Generator's Phone

5. Transporter 1 Company Name: AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number: N.Y.R.0.0.0.1.0.7.3.2.6

A. Transporter's Phone: 631-586-5900

7. Transporter 2 Company Name: NICKABELLA

8. US EPA ID Number

B. Transporter's Phone: 973-591-1778

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a.	001	IT		
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: DONALD P CAMPBELL | Signature | Month 4 | Day 2 | Year 13

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name: FABIO F. | Signature | Month 4 | Day 19 | Year 13

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR'S COPY

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WATER MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of 1
NONE	55058	

GENERATOR

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
AARCO ENVIRONMENTAL SERVICES CORP.	N.Y.R.0.0.0.1.0.7.3.2.6	631-586-5900
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone
DT Trucking LLC		862-588-1035
9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.	61	T		
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
DONALD P CAMPBELL				

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Ramiro Day	Ramiro N	04	19	13

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
NONE	55062	1

GENERATOR

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
AARCO ENVIRONMENTAL SERVICES CORP.	N.Y.R.0.0.0.1.0.7.3.2.6	631-586-5900
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.	001	DT		
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
DONALD P. CAMPBELL		04	10	13

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
[illegible]			E0134257

GENERATOR

5. Generator's Name and Mailing Address

NATIONAL GRID NY
ONE METROTECH CENTER
BROOKLYN, NY 11211

Generator's Phone: [illegible]

Generator's Site Address (if different than mailing address)

NATIONAL GRID
254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name [illegible] U.S. EPA ID Number

7. Transporter 2 Company Name Manole DMT U.S. EPA ID Number

8. Designated Facility Name and Site Address U.S. EPA ID Number

EAVENSON SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832

Facility's Phone: 732-738-6000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NSF COAL TAR CONTAMINATED SOIL NOT DOT NOT RQ'S	001	DT		T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

BSM #713264

14. **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.

Generator's/Offeror's Printed/Typed Name DONALD P CAMPBELL Signature Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name Signature Month Day Year

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name Signature Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
2713-284			E0134254

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
BROOKLYN, NY 11

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
BAYSHORE RECYCLING
7E CROWS MILL ROAD
KEASBEY, NJ 08832

Facility's Phone: 732-738-5060

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NOT COAL TAR CONTAMINATED NOT DOT NOT RCRA	001	DT			
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
SHIP 2713-284

14. **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.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature — Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
2713-264	1		E0134255

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID_NY
ONE METROTECH CENTER
BROOKLYN, NY 11211
Generator's Phone:

Generator's Site Address (if different than mailing address)
NATIONAL GRID
254 MARSETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
BALTIMORE SOIL MANAGEMENT LLC
N CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP COAL TAR CONTAMINATED SOIL NOT DOT NOT RCRA				T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

INT'L

14. **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.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature — Month / Day / Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month / Day / Year

Transporter 2 Printed/Typed Name — Signature — Month / Day / Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

17b. Alternate Facility (or Generator) — Manifest Reference Number: — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month / Day / Year

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
2213-284			E0134256

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
BROOKLYN, NY 11201
Generator's Phone:

Generator's Site Address (if different than mailing address)
NATIONAL GRID
222-124 [illegible] AVE

6. Transporter 1 Company Name
[illegible] DT [illegible]
U.S. EPA ID Number

7. Transporter 2 Company Name
[illegible] DT [illegible]
U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone:
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	MGP COAL TAR CONTAMINATED SOIL NOT DOT NOT RCRA	[illegible]	DT	[illegible]	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
BSM 2213-284

14. **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.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name
Signature
Month Day Year
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
17b. Alternate Facility (or Generator) Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			E0134259

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY SE 4-22-2013
ONE METROTECH CENTER
BROOKLYN, NY 11201
Generator's Phone: 718-[illegible]

Generator's Site Address (if different than mailing address)
[illegible]

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: 732-[illegible]

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP COAL TAR CONTAMINATED SOIL NOT DOT NOT RCRA		DT		T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
BSM 213204

14. 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.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature — Month / Day / Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month / Day / Year

Transporter 2 Printed/Typed Name — Signature — Month / Day / Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month / Day / Year

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
2715284			E0134258

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
BROOKLYN, NY 11211
Generator's Phone:

Generator's Site Address (if different than mailing address)
NATIONAL GRID
[illegible] STREET
BROOKLYN, NY 11211

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number
[illegible] — NJ 8090 [illegible] 24

8. Designated Facility Name and Site Address — U.S. EPA ID Number
[illegible]
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP COAL TAR CONTAMINATED SOIL NOT DOT, NOT RCRA	001	DT	[illegible]	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
[illegible]

INT'L

14. **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.

Generator's/Offeror's Printed/Typed Name: Donald P Campbell — Signature: Donald P Campbell — Month 04 Day 22 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name [illegible] — Signature — Month 4 Day 23 Year 13

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NYR000184184 DC 04-11-2013 — Manifest Doc. No. 123061 — 2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name): William J. Lauer Corp. — 6. US EPA ID Number: NYR000157644 — B. State Transporter's ID: 2A-531

7. Transporter 2 (Company Name) — 8. US EPA ID Number — C. Transporter 1 Telephone (718) 981-8500 — D. State Transporter's ID

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number: NY0000968545 — E. Transporter 2 Telephone ( ) — F. State Facility ID

G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS	001	T	5904	Gal	EPA STATE N018
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c. b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800
YOC-55

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL — Signature — Mo. 04 Day 11 Year 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Fabric Morgan — Signature — Mo. 04 Day 11 Year 13

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Mo. Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N Y R 0 0 0 1 8 4 1 8 4 (D/C 04-14-2015) — Manifest Doc. No. 123062 — 2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name): William J. Lauer Corp. — 6. US EPA ID Number: N Y R 0 0 0 1 5 7 6 4 4

B. State Transporter's ID: 2A-531

C. Transporter 1 Telephone (718) 981-8500

7. Transporter 2 (Company Name) — 8. US EPA ID Number

D. State Transporter's ID

E. Transporter 2 Telephone ( )

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number: N Y 0 0 0 0 9 6 8 5 4 5

F. State Facility ID

G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	12. Containers Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA / STATE N018
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c. b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL — Signature — Mo. Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Mo. Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 2713-284
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number: E0134263

5. Generator's Name and Mailing Address
NATIONAL GRID NY 4-22-2013
ONE METROTECH CENTER
BROOKLYN, NY 11211
Generator's Phone: 718-552-5457

Generator's Site Address (if different than mailing address) 4-22-2013
NATIONAL GRID
222-254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name: Nickoballos DOT 2076648 — U.S. EPA ID Number: AN 8027P #24

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: 732-738-6000
U.S. EPA ID Number: NJ1225001529

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. MGP COAL TAR CONTAMINATED SOIL NOT DOT, NOT RCRA	001	DT	EST. 22	TN
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
BSM 2713-284

14. 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.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature: [signature] — Month 04 Day 29 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name — Signature — Month Day Year
Transporter 2 Printed/Typed Name: Jesus Navarro — Signature: [signature] — Month 4 Day 29 Year 13

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
2715284			E0134262

GENERATOR

5. Generator's Name and Mailing Address

NATIONAL GRID NY 4-22-2013
ONE METROTECH CENTER
BROOKLYN NY 11211

Generator's Phone:

Generator's Site Address (if different than mailing address)

NATIONAL GRID
22- 25 JOSEPH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

Manalc DOT 013968410

8. Designated Facility Name and Site Address — U.S. EPA ID Number

BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 0832

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP COAL TAR CONTAMINATED SOIL NOT DOT NOT RCRA	001	DT	22	TN	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

PSEG 2715284

14. **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.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature: Donald P Campbell — Month: 01 Day: 29 Year: 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month: Day: Year:

Transporter 2 Printed/Typed Name — Signature — Month: 01 Day: 29 Year: 13

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month: Day: Year:

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 2713-284
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number: E0134261

5. Generator's Name and Mailing Address
NATIONAL GRID NY 4-22-2013
ONE METROTECH CENTER
BROOKLYN, NY 11211
Generator's Phone: 718-263-6455

Generator's Site Address (if different than mailing address)
4-22-2013
227-35 FOSTER AVENUE
BROOKLYN, NY 11236

6. Transporter 1 Company Name
U.S. EPA ID Number

7. Transporter 2 Company Name
Nicksellers DOT 2C36648
U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
U.S. EPA ID Number: NJ1225071552
Facility's Phone: 732-738-6000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP COAL TAR CONTAMINATED SOIL NOT HOT NOT FIRE	001	DT	Est. 22	TN	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
BSM 2713-284

14. **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.
Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Month 4 Day 29 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Signature: Month Day Year
Transporter 2 Printed/Typed Name: Signature: Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

17b. Alternate Facility (or Generator) Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Signature: Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
2713-284			E0134264

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
BROOKLYN, NY 11211
Generator's Phone:

4-22-2013

Generator's Site Address (if different than mailing address)
4-22-2013
222 - 84 MACDETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name
T-MAK Services — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
EA ENGINEERING MANAGEMENT LLC
72 GROW'S MILL ROAD
WEASBEY, NJ 08831
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON RCRA, TAR CONTAMINATED SOIL NOT DOT NOT REPS	001	DT	22	TN	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **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.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature — Month: 04 Day: 22 Year: 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name: A.W. TAYLOR 1:23 P.M. — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
2713-264			E0134265

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY 4-22-2013 CC 4-22-2013
ONE METROTECH CENTER
BROOKLYN NY 112
Generator's Phone:

Generator's Site Address (if different than mailing address)
NATIONAL GRID
222- 24 NASPETH AVENUE
ROOSEVELT, NY 11211

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
75 RIDGEVILLE MILL ROAD
LEICESTER, NY 14481
Facility's Phone: 585-382-5000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP COAL TAR CONTAMINATED SOIL NOT RCRA	001	DM	T		
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
GSM 2713-264

INT'L

14. **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.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature: Donald P Campbell — Month: 4 — Day: 22 — Year: 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NYR000184184 RC 04-11-2013 — Manifest Doc. No. 123060 — 2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name) William J. Lauer Corp. (Aarco Environmental Services Corp)
6. US EPA ID Number NYR000107326 NYR000157644
B. State Transporter's ID 2A-531 2A-0220 (A-727)
C. Transporter 1 Telephone (718) 981-8500
D. State Transporter's ID GBI 586-5400

7. Transporter 2 (Company Name)
8. US EPA ID Number
E. Transporter 2 Telephone ( )
F. State Facility ID

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303
10. US EPA ID Number NY0000968545
G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	12. Containers Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS		DOTT	495	gals	EPA / STATE N018
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

I. Additional Description for Materials listed Above	J. Handling Codes for Wastes Listed Above
1022-001 - Development Water	
a. c.	a. c.
b. d.	b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Donald P. Campbell — Signature: Donald P Campbell — Mo. 04 Day 04 Year 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kenmisino — Signature — Mo. 04 Day 04 Year 13

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Mo. Day Year

GENERATOR'S COPY

Job # 13-192658

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 2713684 CE 4-23-2013
2. Page 1 of: 1
3. Emergency Response Phone: 631-586-5100 CE 4-23-2013
4. Waste Tracking Number: E0134260

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
BROOKLYN, NY 11211
Generator's Phone:

Generator's Site Address (if different than mailing address)
NATIONAL GRID
322- 254 MAGEETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U.S. EPA ID Number
ENVIRONMENTAL MANAGEMENT LLC
75 BROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON-RCRA COAL TAR CONTAMINATED SOIL NOT DOT REGULATED	20	DT	20	TN	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
BOM approval #1

14. **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.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature:
Month: 05 Day: 02 Year: 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name
Signature
Month: Day: Year:

Transporter 2 Printed/Typed Name: Beam Inc
Signature
Month: 05 Day: 03 Year: 13

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month: Day: Year:

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. Dc. 04-11-2013 N Y R 0 0 0 1 8 4 1 8 4 | Manifest Doc. No. 1 2 3 0 5 9 | 2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name): William J. Lauer Corp.
6. US EPA ID Number: N Y R 0 0 0 1 5 7 6 4 4
B. State Transporter's ID: 2A-531
C. Transporter 1 Telephone (718) 981-8500
D. State Transporter's ID:

7. Transporter 2 (Company Name)
8. US EPA ID Number
E. Transporter 2 Telephone ( )
F. State Facility ID

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303
10. US EPA ID Number: N Y 0 0 0 0 9 6 8 5 4 5
G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	12. Containers Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA / STATE N018
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. Day Year: 04 11 13 Dc. 04/11/2013

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Mo. Day Year

ORIGINAL - RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. Dc. 04-11-2013 NYR000018418 4

Manifest Doc. No. 123059

2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

4. Generator's Telephone Number (718) 963-5453

5. Transporter 1 (Company Name) William J. Lauer Corp.

6. US EPA ID Number NYR000157644

B. State Transporter's ID 2A-531

C. Transporter 1 Telephone (718) 981-8500

7. Transporter 2 (Company Name)

8. US EPA ID Number

D. State Transporter's ID

E. Transporter 2 Telephone ( )

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number NY0000968545

F. State Facility ID

G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number	12. Containers Number	Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA STATE N018
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. 04 Day 11 Year 13 Dc. 04/11/2013

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Mo. Day Year

TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. Dec. 04 11 2013 — ~~N Y R 0 0 0 1 8 4 1 8 4~~

Manifest Doc. No. 1 2 3 0 5 9

2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name)
William J. Lauer Corp.

6. US EPA ID Number
N Y R 0 0 0 1 5 7 6 4 4

B. State Transporter's ID 2A-531

C. Transporter 1 Telephone (718) 981-8500

7. Transporter 2 (Company Name)

8. US EPA ID Number

D. State Transporter's ID

E. Transporter 2 Telephone ( )

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number
N Y 0 0 0 0 9 6 8 5 4 5

F. State Facility ID

G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA / STATE N018
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. 04 Day 11 Year 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year
Dec 04/11/2013

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Mo. Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: ~~NYR000184184~~ PC 04-11-2013

Manifest Doc. No: 123058

2. Page 1 of: 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name): William J. Lauer Corp.

6. US EPA ID Number: NYR000157644

B. State Transporter's ID: 2A-531

C. Transporter 1 Telephone (718) 981-8500

7. Transporter 2 (Company Name)

8. US EPA ID Number

D. State Transporter's ID

E. Transporter 2 Telephone ( )

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number: NY0000968545

F. State Facility ID

G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA / STATE N018
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. Day Year: ~~10~~ ~~11~~ ~~13~~ PC 04-11-2013

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Mo. Day Year

ORIGINAL - RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: ~~N Y R 0 0 0 1 8 4 1 8 4~~ PC 04-11-2013

Manifest Doc. No: 1 2 3 0 5 8

2. Page 1 of: 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name): William J. Lauer Corp.

6. US EPA ID Number: N Y R 0 0 0 1 5 7 6 4 4

B. State Transporter's ID: 2A-531

C. Transporter 1 Telephone (718) 981-8500

7. Transporter 2 (Company Name)

8. US EPA ID Number

D. State Transporter's ID

E. Transporter 2 Telephone ( )

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number: N Y 0 0 0 0 9 6 8 5 4 5

F. State Facility ID

G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	12. Containers Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA / STATE N018
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. Day Year: ~~10 4 1 1 13~~ PC 04-11-2013

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Mo. Day Year

TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N Y R 0 0 0 1 8 4 1 8 4 — PE 04/11/2023

Manifest Doc. No. 1 2 3 0 5 8

2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

4. Generator's Telephone Number (718) 963-5453

5. Transporter 1 (Company Name)
William J. Lauer Corp.

6. US EPA ID Number
N Y R 0 0 0 1 5 7 6 4 4

B. State Transporter's ID 2A-531

C. Transporter 1 Telephone (718) 981-8500

D. State Transporter's ID

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. Transporter 2 Telephone ( )

F. State Facility ID

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number
N Y 0 0 0 0 9 6 8 5 4 5

G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA STATE N018
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. Day Year: 04 11 23

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year: PE 04/11/23

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space
Mo. Day Year

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name
Signature
Mo. Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. DC 04-11-2013 ~~N Y R 0 0 0 1 8 4 1 8 4~~ Manifest Doc. No. 1 2 3 0 5 7 2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name) William J. Lauer Corp.
6. US EPA ID Number N Y R 0 0 0 1 5 7 6 4 4
B. State Transporter's ID 2A-531
C. Transporter 1 Telephone (718) 981-8500
D. State Transporter's ID

7. Transporter 2 (Company Name)
8. US EPA ID Number
E. Transporter 2 Telephone ( )
F. State Facility ID

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303
10. US EPA ID Number N Y 0 0 0 0 9 6 8 5 4 5
G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA STATE N018
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. Day Year: 04 11 13 DC 04-11-13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name
Signature
Mo. Day Year

ORIGINAL - RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N Y R 0 0 0 1 8 4 1 8 4 — Manifest Doc. No. 1 2 3 0 5 7 — 2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name): William J. Lauer Corp.
6. US EPA ID Number: N Y R 0 0 0 1 5 7 6 4 4
B. State Transporter's ID: 2A-531
C. Transporter 1 Telephone (718) 981-8500
D. State Transporter's ID

7. Transporter 2 (Company Name)
8. US EPA ID Number
E. Transporter 2 Telephone ( )
F. State Facility ID

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303
10. US EPA ID Number: N Y 0 0 0 0 9 6 8 5 4 5
G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA / STATE N018
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL — Signature: Donald P Campbell — Mo. 04 Day 11 Year 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Mo. Day Year

TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: N Y R 0 0 0 1 8 4 1 8 4
Manifest Doc. No.: 1 2 3 0 5 7
2. Page 1 of: 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name): William J. Lauer Corp.
6. US EPA ID Number: N Y R 0 0 0 1 5 7 6 4 4
B. State Transporter's ID: 2A-531
C. Transporter 1 Telephone (718) 981-8500
D. State Transporter's ID:

7. Transporter 2 (Company Name):
8. US EPA ID Number:
E. Transporter 2 Telephone ( )
F. State Facility ID:

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303
10. US EPA ID Number: N Y 0 0 0 0 9 6 8 5 4 5
G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	12. Containers Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA / STATE N018
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. 04 Day 11 Year 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
Mo. Day Year

GENERATOR'S COPY

Appendix D

Permitting Requirements Correspondence with FDNY

From:	James, Calvin (FDNY)
To:	McCabe, Mark
Subject:	RE: Permitting Requirments - Combustible Liquid Tank
Date:	Tuesday, September 17, 2013 2:50:40 PM

Mr. McCabe .

Because of the mixture of coal tar and water a, fire department permit is not needed for the tank .

From: McCabe, Mark [mailto:Mark.McCabe@aecom.com]
Sent: Tuesday, September 17, 2013 1:36 PM
To: James, Calvin (FDNY)
Subject: Permitting Requirments - Combustible Liquid Tank

Inspector James,

AECOM, an environmental consulting company, is conducting a multi-year soil remediation program at a site on Maspeth Ave. in Brooklyn under the oversight of NYSDEC. We are planning to pump a mixture of coal tar and water from below the ground to remove contamination from the site. Data indicates that the recovered material will be a Class III A combustible liquid. The collected material will be temporarily accumulated in a 500 gallon tank pending disposal at a permitted off-site location and will be emptied monthly. The tank will be housed “outside’ within a shipping container and will be equipped with secondary containment.

We’d like to begin to understand the FDNY permitting requirements for the tank. Any help/direction that you could provide would be greatly appreciated.

Regards,
Mark

Mark McCabe
Environment
D: 978.905.2311 C:508.423.9018
mark.mccabe@aecom.com

AECOM
250 Apollo Drive
Chelmsford, MA 01824
Phone: 978.905.2100
Fax: 978.905.2101
www.aecom.com