Brian Bermingham
Project Manager
Site Investigation and Remediation

October 24, 2019

Mr. Gerry Pratt
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7013

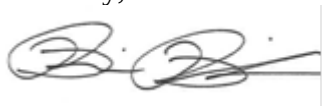
Re: Pre-Design Investigation (PDI) Data Report – 222 Maspeth Avenue Property
Former Equity Works Manufactured Gas Plant (MGP) Site
Brooklyn, New York
NYSDEC Site No. 224050, Order on Consent Index #: A2-0552-0606

Dear Mr. Pratt:

Enclosed is the PDI Data Report for the former Equity Works MGP Site located at 222-254 Maspeth Avenue in Brooklyn, New York (the "Site"). The report summarizes the scope and results of the environmental sampling and investigation work that was performed at the 222 Maspeth Avenue property to support the pending Interim Remedial Measure (IRM) design.

If you have any questions or require additional information, please feel free to contact me at 718-608-5102 or by e-mail at brian.bermingham@nationalgrid.com.

Sincerely,



Brian Bermingham, P.E.
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Enclosure

cc: D. Hettrick (NYSDOH)
W. Ryan (National Grid)
T. Leissing (National Grid)
P. Cox (AECOM)

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Re: Pre-Design Investigation Report – 222 Maspeth Avenue Property
Former Equity Works Manufactured Gas Plant (MGP) Site
Brooklyn, New York
NYSDEC Site No. 224050, Order on Consent Index #: A2-0552-0606

Dear Mr. Pratt:

Background

AECOM, on behalf of National Grid, has prepared this report to document the results of a Pre-Design Investigation (PDI) conducted at the former manufactured gas plant (MGP) site located on the 222 Maspeth Avenue property located in Brooklyn, New York. The PDI activities were outlined in a NYSDEC-approved Work Plan dated June 10, 2019 and were conducted by National Grid pursuant to a Multi-site Order on Consent and administrative settlement with the New York State Department of Environmental Conservation (NYSDEC), Index # A2-0552-0606, and in accordance with applicable guidelines of the NYSDEC and the New York State Department of Health (NYSDOH).

The PDI work provided additional information that will be used to finalize the design of an Interim Remedial Measure (IRM). In a letter dated February 1, 2019, NYSDEC requested that an IRM consisting of a combined excavation/in-situ stabilization (ISS) of impacted areas within the 222 Maspeth Avenue parcel. The IRM is anticipated to be comprised of excavation of the Relief Holder 1 contents to the extent practicable; removal of former structures to the east and southeast of Relief Holder 1, i.e., settling tank, tar tank and drip tanks; and ISS of soils surrounding the Relief Holder and outlying areas on the parcel to the depth of the intermediate clay.

Pre-Design Investigation Scope of Work

The PDI scope of work included the advancement of soil borings and the excavation of test pits within the 222 Maspeth Avenue parcel during the period of May 23 to June 24, 2019. All borings and test pits were advanced by Aquifer Drilling & Testing (ADT) and logged for soil lithology and field screened for visual and olfactory evidence of MGP or other impacts by AECOM. An AECOM structural engineer also inspected the current site infrastructure that would likely be affected by the IRM and observed test pit excavations that exposed the structures foundations.

Specifically, the PDI work included:

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- Geophysical surveying as part of utility pre-clearance prior to borehole advancement and test pitting.
- Advancement of five deep soil borings beneath the former No. 1 Relief Holder subsurface foundation to refine the remedial design and to pre-characterize the holder contents for off-site disposal. The borings intersected the first non-aqueous phase liquid (NAPL) confining unit in the subsurface identified as the "intermediate clay" layer (if present) and extended to the underlying Gardiners Clay unit, a regional confining unit present at depths of 90 to 100 feet below ground surface (bgs) beneath the Site.
- Advancement of 15 shallow soil borings in the proposed ISS area to pre-characterize soils to facilitate off-site soil disposal options.
- Completion of seven test-pits to evaluate the location and condition of the former No. 1 Relief Holder foundation and to evaluate the structural stability and construction of current site infrastructure including perimeter walls and the elevated construction and demolition (C&D) debris sorting equipment.
- Visual and field screening to evaluate the nature of any subsurface foundations of former MGP structures and current site infrastructure and to evaluate the presence of potential MGP residuals or other impacts, if encountered.
- Laboratory sampling at soil borings and test pits to pre-characterize soils and evaluate off-site soil disposal facility options.
- Laboratory bench testing to evaluate soil characteristics and potential ISS mix designs. This work is in process and the results will be included in the IRM design submittal.
- Community air monitoring to monitor concentrations of VOCs and particulate matter less than 10 microns in size (PM-10) in accordance with NYSDEC and NYSDOH guidance.
- Surveying of all completed soil boring and test pit locations.
- Management of investigation derived waste (IDW) at a National Grid approved off-site facility.

The rationale and the locations of the PDI soil borings and test pits are shown on Table 1 and Figure 1. All work was performed in accordance with the procedures specified in the 2009 NYSDEC Approved RI Work Plan except where noted differently in the NYSDEC-approved PDI Work Plan.

Results

Soil Borings for Soil Pre-Characterization

Fifteen shallow soil borings, advanced between 6 and 10 feet bgs were advanced, logged, and sampled during the PDI. The locations of the borings, identified as SB-200 through SB-214, are shown on Figure 1. A summary of the laboratory results from these borings is provided on Table 2. Soil boring logs are provided in Attachment A. Three additional borings (SB-220 through SB-222) were advanced within the Former No. 1 Relief Holder to obtain additional soil volume for

laboratory testing since the previous borings within the holder (SB-215 through SB-219) contained insufficient recovery from the 10 to 20 feet bgs depth interval. Borings were advanced using a combination of drilling methods. Shallow soil borings to 6 feet bgs were advanced by hand auger. Select borings to 10 feet bgs were either advanced by hand auger or sonic drilling methods. Deep borings were generally advanced using sonic drilling methods, with the exception of SB-220 through SB-222, which were advanced using direct-push methods. Upon completion, all borings were tremie-grouted to grade.

The data presented in Table 2 will be used to facilitate direct-loading of soils for off-site disposal during IRM activities.

Bulk samples were also collected from soil borings SB-202 and SB-209 and test pit TP-207 and shipped to Kemron Laboratories for ISS bench testing. Results of this testing will be provided in the IRM design documents.

Three shallow borings (SB-202, SB-209, and SB-212) were also deepened to intersect the intermediate clay at a depth of approximately 45 feet bgs to collect additional soil samples to characterize deeper soils to depths of the intermediate clay that may be disposed off-site as ISS spoils. Results of the samples are provided on Table 2. Boring logs for these borings are provided in Appendix A. In summary, the subsurface geology in these borings was generally consistent with nearby Remedial Investigation (RI) and Supplemental Investigation (SI) results.

Based on the data collected from the shallow soil borings (6 to 10 feet bgs), the intermediate borings to 45 feet bgs to intersect the intermediate clay, and the five borings within the Former No. 1 Relief Holder, the requisite dataset is available for direct loading and off-site disposal of soils during the IRM from within the area where ISS is anticipated and from within the Former No. 1 Relief Holder.

Deep Soil Borings Beneath Former No. 1 Relief Holder

Five deep borings (SB-215 through SB-219) were advanced within the former No. 1 Relief Holder and extended to the regional Gardiners Clay confining unit (Figure 1). Logs summarizing subsurface geology and visible impacts are included in Appendix A. During borehole advancement, isolation casing was set into the bottom of the holder and at the intermediate clay (where present) during borehole advancement to isolate impacts from vertically migrating within the borehole. Upon completion, all borings were tremie-grouted to grade.

The holder bottom was detected in all five of the borings at a typical depth of 26 feet bgs. The bottom was comprised of approximately 0.5 feet of brick underlain by approximately 0.5 feet of concrete (Attachment A).

Subsurface geology was consistent with RI and SI findings. Boring SB-215 was advanced in an area west of where the intermediate clay pinches out. The remaining borings within the holder intersected both the intermediate clay, the lower clay and the Gardiners Clay, with the exception

of SB-217 which did not intersect the lower clay unit. A summary of visible impacts at the deep borings beneath the Former No. 1 Relief Holder is as follows:

- **SB-215 -** NAPL coating in fine to medium sands from 30 – 32 feet bgs, NAPL coating in fine to coarse sands with some fine to coarse gravel from 50 to 52 feet bgs, and NAPL saturated fine sand from 80 to 83 feet bgs overlying the lower clay unit.
- **SB-216** – NAPL saturation in fine sands with some fine to coarse gravel from 49 to 50 feet bgs (no recovery from 50 to 60 feet bgs), NAPL coating in fine to coarse sands with some fine to coarse gravel from 60 to 68 feet bgs, NAPL saturation in fine to coarse sands with little fine to coarse gravel and silt from 68 to 70 feet bgs, NAPL coating in fine to coarse sands with some fine to coarse gravel from 70 to 75 feet bgs, NAPL saturation in fine to coarse sands with some fine to coarse gravel from 75 to 78.5 feet bgs, NAPL coated silty fine to coarse sand with some fine to coarse gravel from 80 to 82 feet bgs, and NAPL saturated fine sand from 82 to 84 feet bgs overlying the lower clay unit.
- **SB-217** – NAPL coating from 27 to 30 feet bgs in silty fine sand with some fine to coarse gravel, NAPL saturation from 30 to 32 feet bgs in fine sands with little silt and some fine to coarse gravel, and NAPL coating (32 to 34 feet bgs) and saturation (34 to 35 feet bgs) within fine sands with little silt and some fine to coarse gravel. A second zone of NAPL coating was noted from 80 to 82 feet bgs in fine to coarse sands, underlain by NAPL saturated fine sands with little fine to coarse gravel from 82 to 85 feet bgs and NAPL saturated fine to coarse sands with a trace of fine to coarse gravel from 90 to 95 feet bgs overlying the Gardiners Clay.
- **SB-218** – NAPL saturation (27 to 32 feet bgs) underlain by NAPL coating (32 to 3 feet bgs) in fine sands with little silt underlain by NAPL saturated fine to coarse sands from 80 to 84.5 feet bgs overlying the lower clay unit.
- **SB-219** – NAPL saturated fine sand with little silt from 30 to 32 feet bgs, NAPL coated fine sand with a trace of fine gravel from 32 to 37 feet bgs underlain by NAPL saturation from 37 feet bgs to 39 feet bgs. At lower depths, there was a ½-inch seam of NAPL saturated fine sand at 42.5 feet bgs underlain by NAPL coated fine to coarse sand with a trace of fine gravel from 80-82.75 that was saturated from 82.75 to 83 feet bgs. A second zone of NAPL coated fine to coarse sand with a trace of fine to coarse gravel was observed at 90 to 94 feet bgs overlying the Gardiners Clay.

Based on these findings, four deep NAPL recovery wells will be proposed following excavation of the holder contents during the pending IRM. Figure 2 shows the locations of the proposed recovery wells. Table 3 outlines the proposed screen and sump intervals for the deep recovery wells. Proposed recovery wells will be 6-inch diameter wells with stainless steel continuous wrap v-wire screens and stainless-steel sumps. Further details of the proposed recovery wells will be included in the IRM design documents.

The proposed recovery wells will be incorporated into the existing NAPL recovery IRM work for manual removal of any accumulated NAPL. The proposed longer sump intervals (10 feet) will allow more residence time of NAPL between manual monitoring and NAPL removal events.

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Test Pits

A total of eight test pits (TP-200 through TP-207) were excavated during the PDI (Figure 1). Test pit TP-207 was an additional test pit added to the Work Plan scope to obtain additional information on the location and condition of the Former No. 1 Relief Holder foundation.

The main objectives of the test pits were to:

- Evaluate the capacity and structural performance of the walls of the Former No. 1 Relief Holder foundation due to the additional stresses that would be generated by removing the impacted soil currently within the subsurface holder foundation.
- Evaluate the need to consider underpinning for the existing L-shaped building adjacent to and partially overlying the Former No. 1 Relief Holder, i.e. a 2-story elevated conveyor structure with underlying sorting bins, during excavation of the holder contents.
- Evaluate the nature of subsurface foundations of former MGP structures and the perimeter walls to support design of the ISS remedy.
- Evaluate the potential influence of dewatering and excavation on the structural integrity of the nearby structures on adjacent properties.

The locations of the test pits and the observed features are illustrated on Figure 1 and Table 4, respectively. Test pit logs are included in Attachment A. A photo log showing the test pit excavations is provided in Attachment B.

A summary of the test pit findings, summarized on Table 3, is provided below:

- **TP-200** – The existing concrete wall of the 1 Rewe Street building extends greater than 6 feet bgs. Given that the location of the proposed excavation of the Former No. 1 Relief Holder and ISS area is greater than 20 feet from this wall, work can proceed as planned with no expected issues to the 1 Rewe Street exterior wall or foundation.
- **TP 201** – The footing of the loading dock side wall was greater than 6 feet bgs and below the water table. Given the proposed 10-foot setback of the ISS area, additional protective measures for the loading ramp are not anticipated.
- **TP-202** – The existing concrete wall footing between the 222 and 253 Maspeth Avenue parcels extends approximately 4 feet bgs and is supported on an existing rubble foundation. Groundwater was observed at 6 feet bgs. Given the proposed 10-foot setback of the ISS area, additional protective measures for the loading ramp are not anticipated.
- **TP-203** – The existing concrete wall is supported on the existing concrete slab. No below grade footings were observed. Any excavation or ISS work in this area will require a proper setback and sloping of subsurface soils as established in the IRM design.
- **TP-204 through TP-207** – These test pits were excavated to locate and determine the condition and nature of construction of the Former No. 1 Relief Holder. The holder wall foundation was observed at each of these test pit locations. The top of the existing brick

masonry wall was observed at approximately 3.5 feet bgs. The wall thickness was observed to be 2.5 feet wide, an no signs of movement of the foundation were observed. The wall thickness appears to increase with depth, as typically observed with brick holder foundations.

Based on the test pit observations during the PDI, the expected structural performance of the existing site structures is summarized below.

- Former No. 1 Relief Holder Foundation Wall
  - The foundation of the former holder remains below the concrete slab currently covering the site. The foundation consists of the circular brick wall (~90 foot outside diameter) with a brick and concrete slab bottom. The holder is approximately 26 feet deep and contains impacted soil and groundwater. The brick sidewalls are approximately 2.5 feet thick near ground level.
  - The holder foundation wall was observed in all four test pits excavated around the foundation perimeter. There was no evidence of movement of the foundation.
  - Preliminary analysis indicates the holder foundation possesses sufficient capacity to resist the soil lateral loads during holder content excavation. AECOM will conduct a more detailed evaluation in the IRM design.
  - ISS work at soils adjacent to and outside the former holder foundation should be completed before holder content excavation to enhance the soil load bearing capacity of the surrounding soils.
  - Recommendations for inspection/monitoring during IRM work will be provided in the IRM design documents.
- Existing Site Infrastructure (Elevated Conveyor Belt Equipment overlying sorting bins)
  - A portion of the gas holder foundation extends beneath the overhead conveyor belt structure.
  - A design for underpinning of this structure will be prepared and finalized as part of the IRM design.
- Dewatering During Former No. 1 Relief Holder Contents Excavation
  - Groundwater table ranges from 4-6 feet bgs.
  - Dewatering is anticipated during the excavation of the holder contents.
  - A dewatering design must be implemented to assess the current conditions of the nearby structures and a plan to inspect and observe the building will be developed and implemented prior to dewatering.
  - The dewatering process will be required to be implemented in a controlled and engineered manner to avoid any damage to the nearby structures. The dewatering design will be prepared and finalized as part of the IRM design.

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- Excavation Adjacent to Perimeter Concrete Walls
  - Based on field observations noted during the PDI, support of excavation work is not required provided that a maximum slope of 1:1 is considered after 1.0 feet from the tip of the wall footing.
  - Based on the above, a maximum excavation depth of 10.0 feet is achievable at a clear distance of 11.0 feet from the tip of the footing.
  - The allowable slope may be increased during the design phase following the review of the soil properties or in the field if the soil conditions are favorable.
  - Any changes to the approach outlined above will be included in the IRM design documents.

Conclusions

The objectives of the PDI work plan were met during the recent investigation work and the findings will be incorporated into the IRM design.

To confirm agreement with the approach, we will be requesting a preliminary design meeting at NYSDEC to review the IRM design, projected schedule, and details of the permit extension needed for Cooper Tank prior to initiation of IRM design.

If you have any questions or require additional information, please feel free to contact me at 718-608-5102 or by e-mail at brian.bermingham@nationalgrid.com.

Sincerely,

Brian Bermingham, P.E.
Project Manager

Enclosure/Attachments

cc: D. Hettrick (NYSDOH)
W. Ryan (National Grid)
T. Leissing (National Grid)
P. Cox (AECOM)

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Tables

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Table 1
Summary of Soil Boring and Test Pit Rationale
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Sample ID	Completion Depth (bgs)	No. of Samples	Analyses	Rationale
SB-200	6 feet	1	Visual, Waste Characterization	Evaluate shallow soil conditions in zone to be excavated prior to ISS. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
SB-201	6 feet	1	Visual, Waste Characterization	Evaluate shallow soil conditions in zone to be excavated prior to ISS. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
SB-202	45 feet	8	Visual, Waste Characterization	Evaluate shallow soil conditions in zone to be excavated prior to ISS. Collect soil samples for pre-characterization of soils to faciliate off-site disposal and to pre-characterize deeper soils to the intermediate clay that may be disposed off-site as ISS spoils. Also collected a sample for ISS treatability study.
SB-203	6 feet	0*	Visual, Waste Characterization	Evaluate shallow soil conditions in zone to be excavated prior to ISS. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
SB-204	6 feet	1	Visual, Waste Characterization	Evaluate shallow soil conditions in zone to be excavated prior to ISS. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
SB-205	6 feet	1	Visual, Waste Characterization	Evaluate shallow soil conditions in zone to be excavated prior to ISS. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
SB-206	6 feet	1	Visual, Waste Characterization	Evaluate shallow soil conditions in zone to be excavated prior to ISS. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
SB-207	6 feet	1	Visual, Waste Characterization	Evaluate shallow soil conditions in zone to be excavated prior to ISS. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
SB-208	6 feet	1	Visual, Waste Characterization	Evaluate shallow soil conditions in zone to be excavated prior to ISS. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
SB-209	45 feet	9	Visual, Waste Characterization	Evaluate shallow soil conditions in zone to be excavated prior to ISS. Collect soil samples for pre-characterization of soils to faciliate off-site disposal and to pre-characterize deeper soils to the intermediate clay that may be disposed off-site as ISS spoils. Also collected a sample for ISS treatability study.
SB-210	6 feet	1	Visual, Waste Characterization	Evaluate shallow soil conditions in zone to be excavated prior to ISS. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
SB-211	10 feet	1	Visual, Waste Characterization	Evaluate shallow soil conditions in zone to be excavated prior to ISS and in area of former MGP structures. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
SB-212	45 feet	8	Visual, Waste Characterization	Evaluate shallow soil conditions in zone to be excavated prior to ISS and in area of former MGP structures. Collect soil sample for pre-characterization of soils to faciliate off-site disposal. Pre-characterize deeper soils to the intermediate clay that may be disposed off-site as ISS spoils.
SB-213	10 feet	1	Visual, Waste Characterization	Evaluate shallow soil conditions in zone to be excavated prior to ISS and in area of former MGP structures. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
SB-214	10 feet	1	Visual, Waste Characterization	Evaluate shallow soil conditions in zone to be excavated prior to ISS and in area of former MGP structures. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
SB-215	100 feet	5	Visual, Waste Characterization	Evaluate contents of former No. 1 Relief Holder and collect soil sample for pre-characterization of soils to faciliate off-site disposal. Evaluate subsurface conditions directly beneath former holder foundation to the Gardiners Clay, a regional confining unit.
SB-216	100 feet	3	Visual, Waste Characterization	Evaluate contents of former No. 1 Relief Holder and collect soil sample for pre-characterization of soils to faciliate off-site disposal. Evaluate subsurface conditions directly beneath former holder foundation to the Gardiners Clay, a regional confining unit.
SB-217	100 feet	3	Visual, Waste Characterization	Evaluate contents of former No. 1 Relief Holder and collect soil sample for pre-characterization of soils to faciliate off-site disposal. Evaluate subsurface conditions directly beneath former holder foundation to the Gardiners Clay, a regional confining unit.
SB-218	100 feet	3	Visual, Waste Characterization	Evaluate contents of former No. 1 Relief Holder and collect soil sample for pre-characterization of soils to faciliate off-site disposal. Evaluate subsurface conditions directly beneath former holder foundation to the Gardiners Clay, a regional confining unit.
SB-219	100 feet	3	Visual, Waste Characterization	Evaluate contents of former No. 1 Relief Holder and collect soil sample for pre-characterization of soils to faciliate off-site disposal. Evaluate subsurface conditions directly beneath former holder foundation to the Gardiners Clay, a regional confining unit.
SB-220	20 feet	2	Visual, Waste Characterization	Evaluate contents of former No. 1 Relief Holder and collect soil sample from 10-20 ft bgs interval for pre-characterization of soils to faciliate off-site disposal.
SB-221	20 feet	2	Visual, Waste Characterization	Evaluate contents of former No. 1 Relief Holder and collect soil sample from 10-20 ft bgs interval for pre-characterization of soils to faciliate off-site disposal.
SB-222	20 feet	2	Visual, Waste Characterization	Evaluate contents of former No. 1 Relief Holder and collect soil sample from 10-20 ft bgs interval for pre-characterization of soils to faciliate off-site disposal.
TP-200	Est. 8 feet max	1	Visual, Waste Characterization	Evaluate perimeter wall construction/possible foundation component adjacent to the 1 Rewe Street building.
TP-201	Est. 8 feet max	1	Visual, Waste Characterization	Evaluate subsurface loading ramp construction/possible foundation component adjacent to the 1 Rewe Street building.

Table 1
Summary of Soil Boring and Test Pit Rationale
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Sample ID	Completion Depth (bgs)	No. of Samples	Analyses	Rationale
TP-202	Est. 8 feet max	8	Visual, Waste Characterization	Evaluate perimeter wall construction/possible foundation component adjacent to the 252 Maspeth Avenue parcel and evaluate the potential presence/location of the former settling tank foundation. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
TP-203	Est. 8 feet max	1	Visual, Waste Characterization	Evaluate perimeter wall construction/possible foundation component adjacent to the 252 Maspeth Avenue parcel, the 1 Rewe Street building, and the elevated roof structure perimeter wall. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
TP-204	Est. 8 feet max	1	Visual, Waste Characterization	Evaluate location and construction of former No. 1 Relief Holder foundation and construction/possible foundation of elevated C&D recycling structure and sorting bays. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
TP-205	Est. 8 feet max	1	Visual, Waste Characterization	Evaluate location and construction of former No. 1 Relief Holder foundation. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
TP-206	Est. 8 feet max	1	Visual, Waste Characterization	Evaluate location and construction of former No. 1 Relief Holder foundation. Collect soil sample for pre-characterization of soils to faciliate off-site disposal.
TP-207	Est. 8 feet max	1	Visual, Waste Characterization	Evaluate location and construction of former No. 1 Relief Holder foundation. Collect soil sample for pre-characterization of soils to faciliate off-site disposal. Also collected a sample for ISS treatability study to represent the worst case scenario and kept it on hold.

Notes

1. No. - number
2. ID - identification
3. ft - feet
4. EST. - Estimated
5. bgs - Below ground surface
6. TBD - To be determined based on field findings
7. Waste Characterization - TPH, TOX, VOCs, SVOCs, TCLP metals, total metals, ignitability, corrosivity, reactive sulfide and cyanide, total cyanide, PCBs, sulfur, TCLP VOCs, TCLP SVOCs, TCLP organics, BTU, Hexavalent chrome, moisture.
8. Number of samples = number of samples for laboratory analysis.
9. * = No samples were collected because shallow subsurface soils were all stone backfill.

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-200 43615.52083 SB-200 (1-6)_20190530 1 - 6 ft	SB-200 43615.52083 SB-200 (3)_20190530 3 - 3 ft	SB-201 43615.41667 SB-201 (1-6)_20190530 1 - 6 ft	SB-201 43615.41667 SB-201 (3)_20190530 3 - 3 ft	SB-202 43619.5 SB-202 (1-6)20190603 1 - 6 ft	SB-202 43619.5 SB-202 (3)20190603 3 - 3 ft	SB-202 43630.45833 SB-202 (14)20190614 14 - 14 ft	SB-202 43630.46528 SB-202 (19)20190614 19 - 19 ft	SB-202 43630.47222 SB-202 (24)20190614 24 - 24 ft	SB-202 43630.47917 SB-202 (29)20190614 29 - 29 ft	SB-202 43630.48611 SB-202 (34)20190614 34 - 34 ft	SB-202 43630.49306 SB-202 (39)20190614 39 - 39 ft	SB-204 43613.38194 SB-204 (1-6)20190528 1 - 6 ft	SB-204 43613.38194 SB-204 (5)20190528 5 - 5 ft	SB-205 43616.5 SB-205 (3)_20190531 3 - 3 ft
Hydrocarbons																	
Diesel Range Organics C10-C28	DRO(C10-C28)	mg/kg	**282**		**1710**		**302**								**1600**		
Gasoline Range Organics C6-C10	DRO(C6-C10)	µg/kg		**673**		**244**		< 101	**297000**	**273000**	**159000**	**29300**	**359000**	**535000**		**672**	**3730**
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	71-55-6	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
1,1,2,2-Tetrachloroethane	79-34-5	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
1,1,2-Trichloroethane	79-00-5	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
1,1-Dichloroethane	75-34-3	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
1,1-Dichloroethene	75-35-4	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
1,2,3-Trichlorobenzene	87-61-6	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
1,2,4-Trichlorobenzene	120-82-1	µg/kg		< 144		**3.0**		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
1,2-Dibromo-3-chloropropane	96-12-8	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
1,2-Dibromoethane	106-93-4	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
1,2-Dichlorobenzene	95-50-1	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
1,2-Dichloroethane	107-06-2	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
1,2-Dichloropropane	78-87-5	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
1,3-Dichlorobenzene	541-73-1	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
1,4-Dioxane	123-91-1	µg/kg		< 3610		< 71.0		< 54.6	< 3070	< 2670	< 2650	< 3190	< 28100	< 29200		< 95.2	< 72.9
2-Butanone	78-93-3	µg/kg		< 144		**2.7**		**14.0**	< 123	< 107	**55.0**	**88.6**	< 1130	< 1170		**8.1**	**28.2**
2-Hexanone	591-78-6	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
4-Methyl-2-pentanone	108-10-1	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Acetone	67-64-1	µg/kg		**87.6**		**4.1**		**99.3**	< 123	< 107	< 106	**92.1**	< 1130	< 1170		**45.0**	**184**
Benzene	71-43-2	µg/kg		**87.5**		< 2.8		< 2.2	**1600**	**232**	**409**	**562**	**4650**	**6280**		< 3.8	**43.0**
Bromochloromethane	74-97-5	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Bromodichloromethane	75-27-4	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Bromoform	75-25-2	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Bromomethane	74-83-9	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Carbon disulfide	75-15-0	µg/kg		**76.5**		< 2.8		< 2.2	**69.1**	< 107	< 106	< 128	< 1130	< 1170		**13.5**	**63.6**
Carbon tetrachloride	56-23-5	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Chlorobenzene	108-90-7	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Chloroethane	75-00-3	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Chloroform	67-66-3	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Chloromethane	74-87-3	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
cis-1,2-Dichloroethene	156-59-2	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
cis-1,3-Dichloropropene	10061-01-5	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Cyclohexane	110-82-7	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Dibromochloromethane	124-48-1	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Dichlorodifluoromethane	75-71-8	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Ethylbenzene	100-41-4	µg/kg		**129**		< 2.8		< 2.2	**26500**	**18700**	**14200**	**3270**	**56600**	**84500**		< 3.8	**6.4**
Isopropylbenzene	98-82-8	µg/kg		**92.4**		< 2.8		< 2.2	**2990**	**2190**	**4410**	**407**	**7880**	**12200**		< 3.8	**244**
m+p-Xylene	1330-20-7-M,P	µg/kg		**232**		< 5.7		< 4.4	**28000**	**28500**	**13100**	**2880**	**47600**	**63800**		< 7.6	**4.2**
Methyl acetate	79-20-9	µg/kg		**1410**		< 2.8		< 2.2	**82.2**	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Methyl tert-butyl ether	1634-04-4	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Methylcyclohexane	108-87-2	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	**3.9**
Methylene chloride	75-09-2	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
o-Xylene	95-47-6	µg/kg		**127**		< 2.8		< 2.2	**11900**	**13000**	**6230**	**1420**	**22500**	**29600**		< 3.8	< 2.9
Styrene	100-42-5	µg/kg		< 144		< 2.8		< 2.2	**1530**	**2310**	**572**	**138**	**1070**	< 1170		< 3.8	< 2.9
Tetrachloroethene	127-18-4	µg/kg		< 144		**1.6**		< 2.2	**131**	**112**	**86.0**	**86.7**	< 1130	**839**		< 3.8	< 2.9
Toluene	108-88-3	µg/kg		**92.3**		< 2.8		< 2.2	**1380**	**301**	**296**	**514**	**2480**	**3760**		< 3.8	< 2.9
trans-1,2-Dichloroethene	156-60-5	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
trans-1,3-Dichloropropene	10061-02-6	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Trichloroethene	79-01-6	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Trichlorofluoromethane	75-69-4	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Vinyl chloride	75-01-4	µg/kg		< 144		< 2.8		< 2.2	< 123	< 107	< 106	< 128	< 1130	< 1170		< 3.8	< 2.9
Xylenes (total)	1330-20-7	µg/kg		**359**		< 5.7		< 4.4	**39800**	**41500**	**19300**	**4300**	**70100**	**93300**		< 7.6	**4.2**
VOCs-Synthetic Precipitation Leaching Procedure (SPLP)																	
1,1-Dichloroethene	75-35-4	mg/L	< 0.010		< 0.010		< 0.0020								< 0.010		
1,2-Dichloroethane	107-06-2	mg/L	< 0.010		< 0.010		< 0.0020								< 0.010		
2-Butanone	78-93-3	mg/L	< 0.025		< 0.025		**0.0020**								< 0.025		
Benzene	71-43-2	mg/L	< 0.010		< 0.010		< 0.0020								< 0.010		
Carbon tetrachloride	56-23-5	mg/L	< 0.010		< 0.010		< 0.0020								< 0.010		
Chlorobenzene	108-90-7	mg/L	< 0.010		< 0.010		< 0.0020								< 0.010		
Chloroform	67-66-3	mg/L	< 0.010		< 0.010		< 0.0020								< 0.010		
Tetrachloroethene	127-18-4	mg/L	< 0.010		< 0.010		< 0.0020								< 0.010		
Trichloroethene	79-01-6	mg/L	< 0.010		< 0.010		< 0.0020								< 0.010		
Vinyl chloride	75-01-4	mg/L	< 0.010		< 0.010		< 0.0020								< 0.010		
Semivolatile Organic Compounds (SVOCs)																	
1,1'-Biphenyl	92-52-4	µg/kg	**458**		< 795		< 769								< 1360		
1,2,4,5-Tetrachlorobenzene	95-94-3	µg/kg	< 788		< 795		< 769								< 1360		
2,2'-oxybis(1-Chloropropane)	108-60-1	µg/kg	< 788		< 795		< 769								< 1360		
2,3,4,6-Tetrachlorophenol	58-90-2	µg/kg	< 3880		< 3920		< 3790								< 6690		
2,4,5-Trichlorophenol	95-95-4	µg/kg	< 788		< 795		< 769								< 1360		
2,4,6-Trichlorophenol	88-06-2	µg/kg	< 788		< 795		< 769								< 1360		
2,4-Dichlorophenol	120-83-2	µg/kg	< 788		< 795		< 769								< 1360		
2,4-Dimethylphenol	105-67-9	µg/kg	< 788		< 795		< 769								< 1360		
2,4-Dinitrophenol	51-28-5	µg/kg	< 7880		< 7950		< 7690								< 13600		
2,4-Dinitrotoluene	121-14-2	µg/kg	< 3880		**1030**		< 3790								< 6690		
2,6-Dinitrotoluene	606-20-2	µg/kg	< 3880		< 3920		< 3790								< 6690		
2-Chloronaphthalene	91-58-7	µg/kg	< 788		< 795		< 769								< 1360		

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-200 43615.52083 SB-200 (1-6)_20190530 1 - 6 ft	SB-200 43615.52083 SB-200 (3)_20190530 3 - 3 ft	SB-201 43615.41667 SB-201 (1-6)_20190530 1 - 6 ft	SB-201 43615.41667 SB-201 (3)_20190530 3 - 3 ft	SB-202 43619.5 SB-202 (1-6)20190603 1 - 6 ft	SB-202 43619.5 SB-202 (3)20190603 3 - 3 ft	SB-202 43630.45833 SB-202 (14)20190614 14 - 14 ft	SB-202 43630.46528 SB-202 (19)20190614 19 - 19 ft	SB-202 43630.47222 SB-202 (24)20190614 24 - 24 ft	SB-202 43630.47917 SB-202 (29)20190614 29 - 29 ft	SB-202 43630.48611 SB-202 (34)20190614 34 - 34 ft	SB-202 43630.49306 SB-202 (39)20190614 39 - 39 ft	SB-204 43613.38194 SB-204 (1-6)20190528 1 - 6 ft	SB-204 43613.38194 SB-204 (5)20190528 5 - 5 ft	SB-205 43616.5 SB-205 (3)_20190531 3 - 3 ft
SVOCs (continued)																	
2-Chlorophenol	95-57-8	µg/kg	< 788		< 795		< 769								< 1360		
2-Methylnaphthalene	91-57-6	µg/kg	**1830**		**558**		< 769								< 1360		
2-Methylphenol	95-48-7	µg/kg	< 788		< 795		< 769								< 1360		
2-Nitroaniline	88-74-4	µg/kg	< 3880		< 3920		< 3790								< 6690		
2-Nitrophenol	88-75-5	µg/kg	< 3880		< 3920		< 3790								< 6690		
3,3'-Dichlorobenzidine	91-94-1	µg/kg	< 3880		< 3920		< 3790								< 6690		
3-and 4-Methylphenol	3,4-MEPH	µg/kg	< 788		< 795		< 769								< 1360		
3-Nitroaniline	99-09-2	µg/kg	< 3880		< 3920		< 3790								< 6690		
4,6-Dinitro-2-methylphenol	534-52-1	µg/kg	< 7880		< 7950		< 7690								< 13600		
4-Bromophenyl phenyl ether	101-55-3	µg/kg	< 788		< 795		< 769								< 1360		
4-Chloro-3-methylphenol	59-50-7	µg/kg	< 788		< 795		< 769								< 1360		
4-Chloroaniline	106-47-8	µg/kg	< 3880		< 3920		< 3790								< 6690		
4-Chlorophenyl phenyl ether	7005-72-3	µg/kg	< 788		< 795		< 769								< 1360		
4-Nitroaniline	100-01-6	µg/kg	< 3880		< 3920		< 3790								< 6690		
4-Nitrophenol	100-02-7	µg/kg	< 7880		< 7950		< 7690								< 13600		
Acenaphthene	83-32-9	µg/kg	**3430**		**325**		< 769								< 1360		
Acenaphthylene	208-96-8	µg/kg	**1090**		**1300**		**1000**								< 1360		
Acetophenone	98-86-2	µg/kg	< 788		< 795		< 769								< 1360		
Anthracene	120-12-7	µg/kg	**7580**		**1680**		**1220**								**2340**		
Atrazine	1912-24-9	µg/kg	< 788		< 795		< 769								< 1360		
Benzaldehyde	100-52-7	µg/kg	< 788		< 795		< 769								< 1360		
Benzo(a)anthracene	56-55-3	µg/kg	**10100**		**5000**		**2790**								**4770**		
Benzo(a)pyrene	50-32-8	µg/kg	**7780**		**4660**		**3030**								**3960**		
Benzo(b)fluoranthene	205-99-2	µg/kg	**10600**		**5610**		**5580**								**4790**		
Benzo(ghi)perylene	191-24-2	µg/kg	**3200**		**2490**		**3030**								**2830**		
Benzo(k)fluoranthene	207-08-9	µg/kg	**4640**		**3020**		**2220**								**2030**		
bis(2-Chloroethoxy)methane	111-91-1	µg/kg	< 788		< 795		< 769								< 1360		
bis(2-Chloroethyl) ether	111-44-4	µg/kg	< 788		< 795		< 769								< 1360		
bis(2-Ethylhexyl) phthalate	117-81-7	µg/kg	**123000**		**1700**		< 769								**16300**		
Butyl benzyl phthalate	85-68-7	µg/kg	**1660**		< 795		< 769								**11800**		
Caprolactam	105-60-2	µg/kg	< 788		< 795		< 769								< 1360		
Carbazole	86-74-8	µg/kg	**4180**		**563**		< 769								< 1360		
Chrysene	218-01-9	µg/kg	**9670**		**4550**		**3810**								**4330**		
Dibenz(a,h)anthracene	53-70-3	µg/kg	**897**		**738**		< 769								< 1360		
Dibenzofuran	132-64-9	µg/kg	**3420**		**726**		< 769								< 1360		
Diethyl phthalate	84-66-2	µg/kg	< 788		< 795		< 769								< 1360		
Dimethyl phthalate	131-11-3	µg/kg	< 788		< 795		< 769								< 1360		
Di-n-butyl phthalate	84-74-2	µg/kg	< 788		< 795		< 769								< 1360		
Di-n-octyl phthalate	117-84-0	µg/kg	**539**		**422**		< 769								< 1360		
Fluoranthene	206-44-0	µg/kg	**23200**		**8250**		**5070**								**12100**		
Fluorene	86-73-7	µg/kg	**5870**		**1070**		< 769								< 1360		
Hexachlorobenzene	118-74-1	µg/kg	< 788		< 795		< 769								< 1360		
Hexachlorobutadiene	87-68-3	µg/kg	< 788		< 795		< 769								< 1360		
Hexachlorocyclopentadiene	77-47-4	µg/kg	< 3880		< 3920		< 3790								< 6690		
Hexachloroethane	67-72-1	µg/kg	< 788		< 795		< 769								< 1360		
Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	**3370**		**2690**		**3040**								**2800**		
Isophorone	78-59-1	µg/kg	< 788		< 795		< 769								< 1360		
Naphthalene	91-20-3	µg/kg	**28900**		**1160**		< 769								< 1360		
Nitrobenzene	98-95-3	µg/kg	< 788		< 795		< 769								< 1360		
N-Nitroso-di-n-propylamine	621-64-7	µg/kg	< 788		< 795		< 769								< 1360		
N-Nitrosodiphenylamine	86-30-6	µg/kg	< 788		< 795		< 769								< 1360		
Pentachlorophenol	87-86-5	µg/kg	< 7880		< 7950		< 7690								< 13600		
Phenanthrene	85-01-8	µg/kg	**23300**		**3690**		**1860**								**4390**		
Phenol	108-95-2	µg/kg	< 788		< 795		< 769								< 1360		
Pyrene	129-00-0	µg/kg	**19000**		**7760**		**4990**								**11900**		
SVOCs-SPLP																	
1,4-Dichlorobenzene	106-46-7	mg/L	< 0.010		< 0.010		< 0.010								< 0.010		
2,4,5-Trichlorophenol	95-95-4	mg/L	< 0.025		< 0.025		< 0.025								< 0.025		
2,4,6-Trichlorophenol	88-06-2	mg/L	< 0.010		< 0.010		< 0.010								< 0.010		
2,4-Dinitrotoluene	121-14-2	mg/L	< 0.010		< 0.010		< 0.010								< 0.010		
2-Methylphenol	95-48-7	mg/L	< 0.010		< 0.010		< 0.010								< 0.010		
3-and 4-Methylphenol	3,4-MEPH	mg/L	< 0.010		< 0.010		< 0.010								< 0.010		
Hexachlorobenzene	118-74-1	mg/L	< 0.010		< 0.010		< 0.010								< 0.010		
Hexachlorobutadiene	87-68-3	mg/L	< 0.010		< 0.010		< 0.010								< 0.010		
Hexachloroethane	67-72-1	mg/L	< 0.010		< 0.010		< 0.010								< 0.010		
Nitrobenzene	98-95-3	mg/L	< 0.010		< 0.010		< 0.010								< 0.010		
Pentachlorophenol	87-86-5	mg/L	< 0.025		< 0.025		< 0.025								< 0.025		
Pyridine	110-86-1	mg/L	< 0.010		< 0.010		< 0.010								< 0.010		
Metals																	
Antimony	7440-36-0	mg/kg	< 3.7		**2.7**		**1.7**								< 6.6		
Arsenic	7440-38-2	mg/kg	**9.1**		**11.9**		**135**								**13.6**		
Beryllium	7440-41-7	mg/kg	**0.21**		**0.38**		**0.12**								**0.25**		
Boron	7440-42-8	mg/kg	**14.9**		**4.5**		**8.2**								**28.6**		
Cadmium	7440-43-9	mg/kg	**0.71**		**0.82**		**3.6**								**3.7**		
Chromium	7440-47-3	mg/kg	**34.6**		**16.7**		**35.7**								**46.5**		
Chromium, Hexavalent	18540-29-9	mg/kg	< 1.2		< 1.2		< 1.2								< 20.1		
Chromium, Trivalent	16065-83-1	mg/kg	**0.59**		**13.8**		**30.8**								**22.9**		
Cobalt	7440-48-4	mg/kg	**5.0**		**4.5**		**10.7**								**8.3**		
Copper	7440-50-8	mg/kg	**149**		**223**		**181**								**122**		

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-200 43615.52083 SB-200 (1-6)_20190530 1 - 6 ft	SB-200 43615.52083 SB-200 (3)_20190530 3 - 3 ft	SB-201 43615.41667 SB-201 (1-6)_20190530 1 - 6 ft	SB-201 43615.41667 SB-201 (3)_20190530 3 - 3 ft	SB-202 43619.5 SB-202 (1-6)20190603 1 - 6 ft	SB-202 43619.5 SB-202 (3)20190603 3 - 3 ft	SB-202 43630.45833 SB-202 (14)20190614 14 - 14 ft	SB-202 43630.46528 SB-202 (19)20190614 19 - 19 ft	SB-202 43630.47222 SB-202 (24)20190614 24 - 24 ft	SB-202 43630.47917 SB-202 (29)20190614 29 - 29 ft	SB-202 43630.48611 SB-202 (34)20190614 34 - 34 ft	SB-202 43630.49306 SB-202 (39)20190614 39 - 39 ft	SB-204 43613.38194 SB-204 (1-6)20190528 1 - 6 ft	SB-204 43613.38194 SB-204 (5)20190528 5 - 5 ft	SB-205 43616.5 SB-205 (3)_20190531 3 - 3 ft
Metals (continued)																	
Lead	7439-92-1	mg/kg	**323**		**442**		**207**								**728**		
Mercury	7439-97-6	mg/kg	**0.66**		**0.86**		**0.40**								**1.1**		
Nickel	7440-02-0	mg/kg	**15.0**		**12.8**		**41.0**								**25.8**		
Selenium	7782-49-2	mg/kg	**0.41**		**1.7**		**1.4**								**1.3**		
Silver	7440-22-4	mg/kg	**0.19**		**0.072**		< 0.53								**0.65**		
Thallium	7440-28-0	mg/kg	< 0.62		< 0.64		< 0.53								< 1.1		
Tin	7440-31-5	mg/kg	**11.4**		**14.8**		**24.5**								**14.7**		
Vanadium	7440-62-2	mg/kg	**22.5**		**20.0**		**36.7**								**43.5**		
Zinc	7440-66-6	mg/kg	**293**		**304**		**206**								**849**		
Metals-SPLP																	
Arsenic	7440-38-2	mg/L	< 0.050		< 0.050		< 0.050								< 0.050		
Barium	7440-39-3	mg/L	**0.45**		**0.18**		**0.40**								**0.31**		
Cadmium	7440-43-9	mg/L	< 0.012		**0.0080**		**0.010**								< 0.012		
Chromium	7440-47-3	mg/L	< 0.050		< 0.050		< 0.050								< 0.050		
Copper	7440-50-8	mg/L	**0.039**		**0.062**		**0.17**								< 0.12		
Lead	7439-92-1	mg/L	**0.10**		**0.10**		**0.021**								**0.020**		
Mercury	7439-97-6	mg/L	**0.00021**		< 0.00020		< 0.00020								< 0.00080		
Nickel	7440-02-0	mg/L	**0.040**		**0.045**		**0.060**								**0.057**		
Selenium	7782-49-2	mg/L	< 0.050		< 0.050		< 0.050								< 0.050		
Silver	7440-22-4	mg/L	< 0.050		< 0.050		< 0.050								< 0.050		
Zinc	7440-66-6	mg/L	**0.36**		**1.4**		**0.73**								**0.88**		
Cyanide																	
Total Cyanide	57-12-5	mg/kg	**0.20**		**0.37**		**0.33**								**9.5**		
Polychlorinated Biphenyls (PCBs)																	
Aroclor 1016	12674-11-2	µg/kg	< 39.3		< 39.1		< 37.5								< 65.9		
Aroclor 1221	11104-28-2	µg/kg	< 79.7		< 79.5		< 76.2								< 134		
Aroclor 1232	11141-16-5	µg/kg	< 39.3		< 39.1		< 37.5								< 65.9		
Aroclor 1242	53469-21-9	µg/kg	**82.8**		< 39.1		< 37.5								**242**		
Aroclor 1248	12672-29-6	µg/kg	< 39.3		< 39.1		< 37.5								< 65.9		
Aroclor 1254	11097-69-1	µg/kg	**165**		< 39.1		**154**								**404**		
Aroclor 1260	11096-82-5	µg/kg	< 39.3		< 39.1		**138**								< 65.9		
Aroclor 1262	37324-23-5	µg/kg	< 39.3		< 39.1		< 37.5								< 65.9		
Aroclor 1268	11100-14-4	µg/kg	< 39.3		< 39.1		< 37.5								< 65.9		
PCB (Total) (ppm)	CALC-PCBs	µg/kg	**248**		< 79.5		**292**								**645**		
Pesticides-SPLP																	
Chlordane	57-74-9	mg/L	< 0.0020		< 0.0020		< 0.0020								< 0.0020		
Endrin	72-20-8	mg/L	< 0.00020		< 0.00020		< 0.00020								< 0.00020		
Gamma BHC - Lindane	58-89-9	mg/L	< 0.00010		< 0.00010		< 0.00010								< 0.00010		
Heptachlor	76-44-8	mg/L	< 0.00010		< 0.00010		< 0.00010								< 0.00010		
Heptachlor Epoxide	1024-57-3	mg/L	< 0.00010		< 0.00010		< 0.00010								< 0.00010		
Methoxychlor	72-43-5	mg/L	< 0.0010		< 0.0010		< 0.0010								< 0.0010		
Toxaphene	8001-35-2	mg/L	< 0.010		< 0.010		< 0.010								< 0.010		
Herbicides-SPLP																	
2,4,5-TP (Silvex)	93-72-1	mg/L	**0.000031**		< 0.0025		< 0.0025								**0.00012**		
2,4-D	94-75-7	mg/L	**0.00053**		< 0.0050		< 0.0050								**0.00053**		
Other																	
BTU	BTU	BTUs/lb.					**286**										
Cresols (total)-TCLP	1319-77-3	mg/kg															
Cyanide (Reactivity)	57-12-5-R	mg/kg	< 120		< 121		< 99.6								< 203		
Ignitability	IGNITABILITY	mm/sec	< 2.2		< 2.2		**2.2**								**2.2**		
Moisture, percent	MOIST	%	**17.0**	**16.2**	**17.5**	**13.5**	**13.7**	**11.8**	**17.4**	**14.3**	**13.0**	**15.6**	**16.7**	**16.4**	**50.9**	**37.3**	**25.9**
Moisture, percent	MOIST	%															
pH	PH	S.U.	**11.2**		**8.2**		**8.5**								**7.9**		
Solids, Total	TSOLIDS	%					**72.2**										
Sulfide (Reactivity)	18496-25-8-R	mg/kg	< 99.7		< 99.5		< 99.6								< 99.7		
Sulfur	7704-34-9	% (w/w)	**0.357**		**0.783**		**0.136**								**0.867**		
Temperature	TEMP	deg c	**23.6**		**23.6**		**24.0**								**23.7**		
Total Organic Halides	TOX	mg/kg					< 34.6										

Notes:
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
BTU - British Thermal Unit
BTUs/lb. - BTUs per pounds
mm/sec - millimeters per second
S.U. - standard units
w/w - weight by weight
deg C - degrees Celsius

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-205 43616.51042 SB-205 (1-6)_20190531 1 - 6 ft	SB-206 43616.4375 SB-206 (1-6)_20190531 1 - 6 ft	SB-206 43616.4375 SB-206 (3)_20190531 3 - 3 ft	SB-207 43614.46528 SB-207 (1-6)20190529 1 - 6 ft	SB-207 43614.46528 SB-207 (3)20190529 3 - 3 ft	SB-208 43614.57292 SB-208 (3)20190529 3 - 3 ft	SB-208 43614.60417 SB-208 (1-6)_20190529 1 - 6 ft	SB-209 43619.5625 SB-209 (3)20190603 3 - 3 ft	SB-209 43619.59375 SB-209 (1-6)20190603 1 - 6 ft	SB-209 43620.41667 SB-209 (1-6)_20190604-1 1 - 6 ft	SB-209 43620.52778 SB-209 (6-10)_20190604 6 - 10 ft	SB-209 43620.52778 SB-209 (8)_20190604 8 - 8 ft	SB-209 43620.53472 SB-209 (10-15)_20190604 10 - 15 ft	SB-209 43620.53472 SB-209 (13)_20190604 13 - 13 ft	SB-209 43620.54167 SB-209 (15-18)_20190604 15 - 18 ft
Hydrocarbons																	
Diesel Range Organics C10-C28	DRO(C10-C28)	mg/kg	**1450**	**269**		**1390**			**1480**		**464**		**2860**		**28100**		**20600**
Gasoline Range Organics C6-C10	DRO(C6-C10)	µg/kg			**3860**		**1560**	**998**		**3630**				**11000**		**481000**	
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	71-55-6	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
1,1,2,2-Tetrachloroethane	79-34-5	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
1,1,2-Trichloroethane	79-00-5	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
1,1-Dichloroethane	75-34-3	µg/kg			< 3.3		< 6.0	< 2.8		**1780**				< 154		< 1180	
1,1-Dichloroethene	75-35-4	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
1,2,3-Trichlorobenzene	87-61-6	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
1,2,4-Trichlorobenzene	120-82-1	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
1,2-Dibromo-3-chloropropane	96-12-8	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
1,2-Dibromoethane	106-93-4	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
1,2-Dichlorobenzene	95-50-1	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
1,2-Dichloroethane	107-06-2	µg/kg			< 3.3		< 6.0	< 2.8		**342**				< 154		< 1180	
1,2-Dichloropropane	78-87-5	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
1,3-Dichlorobenzene	541-73-1	µg/kg			< 3.3		< 6.0	**18.3**		< 181				< 154		< 1180	
1,4-Dioxane	123-91-1	µg/kg			< 81.5		< 151	< 69.5		**2640**				< 3860		< 29500	
2-Butanone	78-93-3	µg/kg			**22.3**		**10.0**	**33.6**		< 181				**119**		< 1180	
2-Hexanone	591-78-6	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
4-Methyl-2-pentanone	108-10-1	µg/kg			< 3.3		**27.1**	**3.0**		< 181				**132**		< 1180	
Acetone	67-64-1	µg/kg			**87.1**		**73.9**	**155**		**294**				**228**		< 1180	
Benzene	71-43-2	µg/kg			**3.0**		< 6.0	< 2.8		**37.7**				**402**		**10900**	
Bromochloromethane	74-97-5	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
Bromodichloromethane	75-27-4	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
Bromoform	75-25-2	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
Bromomethane	74-83-9	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
Carbon disulfide	75-15-0	µg/kg			**16.3**		**46.2**	**39.8**		**497**				**271**		< 1180	
Carbon tetrachloride	56-23-5	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
Chlorobenzene	108-90-7	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
Chloroethane	75-00-3	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
Chloroform	67-66-3	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
Chloromethane	74-87-3	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
cis-1,2-Dichloroethene	156-59-2	µg/kg			< 3.3		< 6.0	< 2.8		< 181				**270**		< 1180	
cis-1,3-Dichloropropene	10061-01-5	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
Cyclohexane	110-82-7	µg/kg			**6.4**		< 6.0	< 2.8		**120**				**126**		< 1180	
Dibromochloromethane	124-48-1	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
Dichlorodifluoromethane	75-71-8	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
Ethylbenzene	100-41-4	µg/kg			< 3.3		**104**	**6.9**		**741**				**2160**		**84300**	
Isopropylbenzene	98-82-8	µg/kg			**6.2**		**49.9**	**14.2**		**228**				**574**		**1060**	
m+p-Xylene	1330-20-7-M,P	µg/kg			< 6.5		**276**	**12.4**		**1330**				**3280**		**59200**	
Methyl acetate	79-20-9	µg/kg			< 3.3		< 6.0	**6.2**		**4330**				**434**		< 1180	
Methyl tert-butyl ether	1634-04-4	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
Methylcyclohexane	108-87-2	µg/kg			**18.7**		**10.9**	< 2.8		**220**				**248**		< 1180	
Methylene chloride	75-09-2	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
o-Xylene	95-47-6	µg/kg			< 3.3		**143**	**4.1**		**588**				**977**		**26800**	
Styrene	100-42-5	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		**3100**	
Tetrachloroethene	127-18-4	µg/kg			< 3.3		< 6.0	< 2.8		**234**				**149**		< 1180	
Toluene	108-88-3	µg/kg			< 3.3		**216**	< 2.8		**1700**				**941**		**45800**	
trans-1,2-Dichloroethene	156-60-5	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
trans-1,3-Dichloropropene	10061-02-6	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
Trichloroethene	79-01-6	µg/kg			< 3.3		< 6.0	< 2.8		**183**				**247**		< 1180	
Trichlorofluoromethane	75-69-4	µg/kg			< 3.3		< 6.0	< 2.8		**114**				< 154		< 1180	
Vinyl chloride	75-01-4	µg/kg			< 3.3		< 6.0	< 2.8		< 181				< 154		< 1180	
Xylenes (total)	1330-20-7	µg/kg			< 6.5		**418**	**16.5**		**1910**				**4260**		**86100**	
VOCs-Synthetic Precipitation Leaching Procedure (SPLP)																	
1,1-Dichloroethene	75-35-4	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.0020	< 0.0020	< 0.0020		< 0.0020		< 0.0020
1,2-Dichloroethane	107-06-2	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.0020	< 0.0020	< 0.0020		< 0.0020		< 0.0020
2-Butanone	78-93-3	mg/L	< 0.025	< 0.025		< 0.025			< 0.025		**0.0027**	**0.0023**	**0.0030**		**0.0026**		**0.0025**
Benzene	71-43-2	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		**0.00044**	< 0.0020	**0.0019**		**0.15**		**0.056**
Carbon tetrachloride	56-23-5	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.0020	< 0.0020	< 0.0020		< 0.0020		< 0.0020
Chlorobenzene	108-90-7	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.0020	< 0.0020	**0.00052**		< 0.0020		< 0.0020
Chloroform	67-66-3	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.0020	< 0.0020	< 0.0020		< 0.0020		< 0.0020
Tetrachloroethene	127-18-4	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		**0.0056**	**0.0017**	**0.0082**		< 0.0020		< 0.0020
Trichloroethene	79-01-6	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		**0.0012**	< 0.0020	**0.00094**		< 0.0020		< 0.0020
Vinyl chloride	75-01-4	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.0020	< 0.0020	< 0.0020		< 0.0020		< 0.0020
Semivolatile Organic Compounds (SVOCs)																	
1,1'-Biphenyl	92-52-4	µg/kg	< 895	< 483		< 870			< 470		< 4030		**1760**		**80600**		**44600**
1,2,4,5-Tetrachlorobenzene	95-94-3	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
2,2'-oxybis(1-Chloropropane)	108-60-1	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
2,3,4,6-Tetrachlorophenol	58-90-2	µg/kg	< 4410	< 2380		< 4290			< 2310		< 19900		< 2060		< 209000		< 1890
2,4,5-Trichlorophenol	95-95-4	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
2,4,6-Trichlorophenol	88-06-2	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
2,4-Dichlorophenol	120-83-2	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
2,4-Dimethylphenol	105-67-9	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
2,4-Dinitrophenol	51-28-5	µg/kg	< 8950	< 4830		< 8700			< 4700		< 40300		< 4180		< 424000		< 3840
2,4-Dinitrotoluene	121-14-2	µg/kg	< 4410	< 2380		< 4290			< 2310		< 19900		< 2060		< 209000		< 1890
2,6-Dinitrotoluene	606-20-2	µg/kg	< 4410	< 2380		< 4290			< 2310		< 19900		< 2060		< 209000		< 1890
2-Chloronaphthalene	91-58-7	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		**4200**

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-205 43616.51042 SB-205 (1-6)_20190531 1 - 6 ft	SB-206 43616.4375 SB-206 (1-6)_20190531 1 - 6 ft	SB-206 43616.4375 SB-206 (3)_20190531 3 - 3 ft	SB-207 43614.46528 SB-207 (1-6)20190529 1 - 6 ft	SB-207 43614.46528 SB-207 (3)20190529 3 - 3 ft	SB-208 43614.57292 SB-208 (3)20190529 3 - 3 ft	SB-208 43614.60417 SB-208 (1-6)_20190529 1 - 6 ft	SB-209 43619.5625 SB-209 (3)20190603 3 - 3 ft	SB-209 43619.59375 SB-209 (1-6)20190603 1 - 6 ft	SB-209 43620.41667 SB-209 (1-6)_20190604-1 1 - 6 ft	SB-209 43620.52778 SB-209 (6-10)_20190604 6 - 10 ft	SB-209 43620.52778 SB-209 (8)_20190604 8 - 8 ft	SB-209 43620.53472 SB-209 (10-15)_20190604 10 - 15 ft	SB-209 43620.53472 SB-209 (13)_20190604 13 - 13 ft	SB-209 43620.54167 SB-209 (15-18)_20190604 15 - 18 ft
SVOCs (continued)																	
2-Chlorophenol	95-57-8	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
2-Methylnaphthalene	91-57-6	µg/kg	< 895	< 483		**1010**			**1020**		**4020**		**9680**		**1090000**		**602000**
2-Methylphenol	95-48-7	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		**467**
2-Nitroaniline	88-74-4	µg/kg	< 4410	< 2380		< 4290			< 2310		< 19900		< 2060		< 209000		< 1890
2-Nitrophenol	88-75-5	µg/kg	< 4410	< 2380		< 4290			< 2310		< 19900		< 2060		< 209000		< 1890
3,3'-Dichlorobenzidine	91-94-1	µg/kg	< 4410	< 2380		< 4290			< 2310		< 19900		< 2060		< 209000		< 1890
3-and 4-Methylphenol	3,4-MEPH	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
3-Nitroaniline	99-09-2	µg/kg	< 4410	< 2380		< 4290			< 2310		< 19900		< 2060		< 209000		< 1890
4,6-Dinitro-2-methylphenol	534-52-1	µg/kg	< 8950	< 4830		< 8700			< 4700		< 40300		< 4180		< 424000		< 3840
4-Bromophenyl phenyl ether	101-55-3	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
4-Chloro-3-methylphenol	59-50-7	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
4-Chloroaniline	106-47-8	µg/kg	< 4410	< 2380		< 4290			< 2310		< 19900		< 2060		< 209000		< 1890
4-Chlorophenyl phenyl ether	7005-72-3	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
4-Nitroaniline	100-01-6	µg/kg	< 4410	< 2380		< 4290			< 2310		< 19900		< 2060		< 209000		< 1890
4-Nitrophenol	100-02-7	µg/kg	< 8950	< 4830		< 8700			< 4700		< 40300		< 4180		< 424000		< 3840
Acenaphthene	83-32-9	µg/kg	**814**	**438**		**1900**			**1850**		< 4030		**10200**		**45500**		**18500**
Acenaphthylene	208-96-8	µg/kg	< 895	< 483		< 870			< 470		< 4030		**1530**		**368000**		**207000**
Acetophenone	98-86-2	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		**1740**
Anthracene	120-12-7	µg/kg	**1260**	**1390**		**3050**			**1800**		**3410**		**18000**		**130000**		**70300**
Atrazine	1912-24-9	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
Benzaldehyde	100-52-7	µg/kg	< 895	< 483		< 870			**460**		< 4030		< 418		< 42400		< 384
Benzo(a)anthracene	56-55-3	µg/kg	**1820**	**3430**		**4620**			**2520**		**7270**		**21500**		**81300**		**44400**
Benzo(a)pyrene	50-32-8	µg/kg	**1570**	**3020**		**3650**			**1800**		**5630**		**16800**		**56800**		**28400**
Benzo(b)fluoranthene	205-99-2	µg/kg	**2270**	**3950**		**4200**			**2340**		**6710**		**18900**		**42200**		**21800**
Benzo(ghi)perylene	191-24-2	µg/kg	**806**	**1320**		**2500**			**819**		**4320**		**5890**		< 42400		**7490**
Benzo(k)fluoranthene	207-08-9	µg/kg	**1240**	**1510**		**1820**			**1150**		**3300**		**9140**		< 42400		**8990**
bis(2-Chloroethoxy)methane	111-91-1	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
bis(2-Chloroethyl) ether	111-44-4	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
bis(2-Ethylhexyl) phthalate	117-81-7	µg/kg	**4110**	**3080**		**58300**			**58800**		**15700**		**126000**		< 42400		< 384
Butyl benzyl phthalate	85-68-7	µg/kg	< 895	**1490**		**30700**			**18400**		**61900**		**4620**		< 42400		< 384
Caprolactam	105-60-2	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
Carbazole	86-74-8	µg/kg	**329**	**497**		**1610**			**1090**		< 4030		**8750**		< 42400		**3240**
Chrysene	218-01-9	µg/kg	**2160**	**3200**		**4290**			**2560**		**7370**		**20500**		**73200**		**39100**
Dibenz(a,h)anthracene	53-70-3	µg/kg	< 895	**329**		< 870			< 470		< 4030		**1800**		< 42400		**2390**
Dibenzofuran	132-64-9	µg/kg	**614**	**328**		**1540**			**1730**		< 4030		**7030**		< 42400		**11700**
Diethyl phthalate	84-66-2	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
Dimethyl phthalate	131-11-3	µg/kg	**340**	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
Di-n-butyl phthalate	84-74-2	µg/kg	< 895	< 483		< 870			< 470		< 4030		**439**		< 42400		< 384
Di-n-octyl phthalate	117-84-0	µg/kg	< 895	< 483		< 870			**251**		< 4030		**486**		< 42400		< 384
Fluoranthene	206-44-0	µg/kg	**5360**	**6900**		**11800**			**7890**		**16800**		**55300**		**149000**		**78400**
Fluorene	86-73-7	µg/kg	**1070**	**440**		**2100**			**2870**		**2740**		**13100**		**230000**		**128000**
Hexachlorobenzene	118-74-1	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
Hexachlorobutadiene	87-68-3	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
Hexachlorocyclopentadiene	77-47-4	µg/kg	< 4410	< 2380		< 4290			< 2310		< 19900		< 2060		< 209000		< 1890
Hexachloroethane	67-72-1	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	**809**	**1450**		**2410**			**838**		**4050**		**6910**		< 42400		**7830**
Isophorone	78-59-1	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
Naphthalene	91-20-3	µg/kg	< 895	**282**		**2290**			**1460**		**8910**		**51600**		**2620000**		**1410000**
Nitrobenzene	98-95-3	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
N-Nitroso-di-n-propylamine	621-64-7	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
N-Nitrosodiphenylamine	86-30-6	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
Pentachlorophenol	87-86-5	µg/kg	< 8950	< 4830		< 8700			< 4700		< 40300		< 4180		< 424000		< 3840
Phenanthrene	85-01-8	µg/kg	**3800**	**4200**		**13100**			**11700**		**16500**		**72900**		**482000**		**266000**
Phenol	108-95-2	µg/kg	< 895	< 483		< 870			< 470		< 4030		< 418		< 42400		< 384
Pyrene	129-00-0	µg/kg	**4360**	**7220**		**11100**			**7360**		**14200**		**52000**		**232000**		**125000**
SVOCs-SPLP																	
1,4-Dichlorobenzene	106-46-7	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.010	< 0.010	< 0.010		< 0.010		< 0.010
2,4,5-Trichlorophenol	95-95-4	mg/L	< 0.025	< 0.025		< 0.025			< 0.025		< 0.025	< 0.025	< 0.025		< 0.025		< 0.025
2,4,6-Trichlorophenol	88-06-2	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.010	< 0.010	< 0.010		< 0.010		< 0.010
2,4-Dinitrotoluene	121-14-2	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.010	< 0.010	< 0.010		< 0.010		< 0.010
2-Methylphenol	95-48-7	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.010	< 0.010	< 0.010		< 0.010		< 0.010
3-and 4-Methylphenol	3,4-MEPH	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.010	< 0.010	< 0.010		< 0.010		**0.0062**
Hexachlorobenzene	118-74-1	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.010	< 0.010	< 0.010		< 0.010		< 0.010
Hexachlorobutadiene	87-68-3	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.010	< 0.010	< 0.010		< 0.010		< 0.010
Hexachloroethane	67-72-1	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.010	< 0.010	< 0.010		< 0.010		< 0.010
Nitrobenzene	98-95-3	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.010	< 0.010	< 0.010		< 0.010		< 0.010
Pentachlorophenol	87-86-5	mg/L	< 0.025	< 0.025		< 0.025			< 0.025		< 0.025	< 0.025	< 0.025		< 0.025		< 0.025
Pyridine	110-86-1	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.010	< 0.010	< 0.010		< 0.010		< 0.010
Metals																	
Antimony	7440-36-0	mg/kg	< 4.5	< 4.3		**1.9**			< 4.5		**0.38**		**6.1**		< 3.7		< 3.5
Arsenic	7440-38-2	mg/kg	**24.6**	**5.5**		**4.4**			**6.0**		**13.6**		**19.7**		**2.1**		**3.9**
Beryllium	7440-41-7	mg/kg	**0.13**	**0.45**		**0.34**			**0.14**		**0.32**		**0.58**		**0.19**		**0.15**
Boron	7440-42-8	mg/kg	**14.9**	**27.8**		**41.5**			**13.8**		**19.3**		**27.0**		**4.5**		**3.1**
Cadmium	7440-43-9	mg/kg	**3.2**	**1.2**		**5.9**			**3.4**		**1.7**		**2.9**		**0.35**		**0.36**
Chromium	7440-47-3	mg/kg	**71.1**	**21.3**		**47.5**			**44.4**		**90.6**		**33.0**		**13.6**		**9.2**
Chromium, Hexavalent	18540-29-9	mg/kg	< 6.8	< 1.5		< 6.4			< 7.2		< 6.2		< 6.3		< 6.6		< 5.9
Chromium, Trivalent	16065-83-1	mg/kg	**51.9**	**14.4**		**47.5**			**31.1**		**90.6**		**33.0**		**13.6**		**9.2**
Cobalt	7440-48-4	mg/kg	**11.5**	**4.2**		**4.7**			**6.0**		**6.3**		**6.8**		**2.7**		**4.3**
Copper	7440-50-8	mg/kg	**148**	**112**		**96.3**			**75.4**		**73.7**		**354**		**8.0**		**11.0**

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-205 43616.51042 SB-205 (1-6)_20190531 1 - 6 ft	SB-206 43616.4375 SB-206 (1-6)_20190531 1 - 6 ft	SB-206 43616.4375 SB-206 (3)_20190531 3 - 3 ft	SB-207 43614.46528 SB-207 (1-6)20190529 1 - 6 ft	SB-207 43614.46528 SB-207 (3)20190529 3 - 3 ft	SB-208 43614.57292 SB-208 (3)20190529 3 - 3 ft	SB-208 43614.60417 SB-208 (1-6)_20190529 1 - 6 ft	SB-209 43619.5625 SB-209 (3)20190603 3 - 3 ft	SB-209 43619.59375 SB-209 (1-6)20190603 1 - 6 ft	SB-209 43620.41667 SB-209 (1-6)_20190604-1 1 - 6 ft	SB-209 43620.52778 SB-209 (6-10)_20190604 6 - 10 ft	SB-209 43620.52778 SB-209 (8)_20190604 8 - 8 ft	SB-209 43620.53472 SB-209 (10-15)_20190604 10 - 15 ft	SB-209 43620.53472 SB-209 (13)_20190604 13 - 13 ft	SB-209 43620.54167 SB-209 (15-18)_20190604 15 - 18 ft
Metals (continued)																	
Lead	7439-92-1	mg/kg	**456**	**253**		**554**			**690**		**573**		**747**		**3.3**		**10.5**
Mercury	7439-97-6	mg/kg	**0.53**	**0.47**		**1.3**			**1.8**		**1.5**		**0.86**		**0.067**		< 0.046
Nickel	7440-02-0	mg/kg	**55.6**	**10.9**		**17.9**			**22.4**		**18.6**		**37.2**		**7.2**		**9.1**
Selenium	7782-49-2	mg/kg	**1.2**	**0.67**		**0.82**			**1.1**		**0.56**		**1.1**		**1.0**		**0.58**
Silver	7440-22-4	mg/kg	< 0.75	< 0.72		**0.98**			**0.52**		**0.76**		**1.7**		< 0.61		< 0.59
Thallium	7440-28-0	mg/kg	< 0.75	< 0.72		**0.36**			< 0.75		**0.23**		**1.3**		< 0.61		**0.11**
Tin	7440-31-5	mg/kg	**28.2**	**5.1**		**9.8**			**7.2**		**14.9**		**23.3**		< 3.1		< 2.9
Vanadium	7440-62-2	mg/kg	**24.4**	**15.2**		**15.8**			**23.2**		**23.9**		**23.0**		**11.5**		**10.4**
Zinc	7440-66-6	mg/kg	**695**	**1370**		**1000**			**684**		**790**		**2120**		**22.6**		**23.5**
Metals-SPLP																	
Arsenic	7440-38-2	mg/L	< 0.050	< 0.050		< 0.050			< 0.050		< 0.050	< 0.050	< 0.050		< 0.050		< 0.050
Barium	7440-39-3	mg/L	**0.63**	**0.19**		**0.61**			**0.61**		**0.24**	**0.36**	**0.87**		< 1.0		**0.074**
Cadmium	7440-43-9	mg/L	< 0.012	< 0.012		< 0.012			< 0.012		**0.0020**	< 0.012	< 0.012		< 0.012		< 0.012
Chromium	7440-47-3	mg/L	< 0.050	< 0.050		< 0.050			< 0.050		< 0.050	< 0.050	< 0.050		< 0.050		< 0.050
Copper	7440-50-8	mg/L	< 0.12	< 0.12		< 0.12			< 0.12		< 0.12	< 0.12	< 0.12		< 0.12		< 0.12
Lead	7439-92-1	mg/L	< 0.025	**0.036**		< 0.025			< 0.025		< 0.025	**0.017**	< 0.025		**0.015**		< 0.025
Mercury	7439-97-6	mg/L	< 0.00020	< 0.00020		< 0.00080			< 0.00020		**0.00010**	< 0.00020	< 0.00020		< 0.00020		< 0.00020
Nickel	7440-02-0	mg/L	**0.10**	**0.029**		**0.028**			**0.18**		**0.061**	**0.035**	< 0.20		< 0.20		< 0.20
Selenium	7782-49-2	mg/L	< 0.050	< 0.050		< 0.050			< 0.050		< 0.050	< 0.050	< 0.050		< 0.050		< 0.050
Silver	7440-22-4	mg/L	< 0.050	< 0.050		< 0.050			< 0.050		< 0.050	< 0.050	< 0.050		< 0.050		< 0.050
Zinc	7440-66-6	mg/L	**0.29**	**0.54**		**0.24**			**0.76**		**1.6**	**0.14**	**0.094**		**0.049**		**0.099**
Cyanide																	
Total Cyanide	57-12-5	mg/kg	**4.5**	**4.3**		**2.1**			**3.5**		**0.49**		**6.9**		**0.25**		**0.22**
Polychlorinated Biphenyls (PCBs)																	
Aroclor 1016	12674-11-2	µg/kg	< 44.5	< 47.8		< 212			< 46.8		< 80.0		< 40.5		< 41.5		< 37.5
Aroclor 1221	11104-28-2	µg/kg	< 90.3	< 97.0		< 430			< 95.1		< 162		< 82.2		< 84.2		< 76.1
Aroclor 1232	11141-16-5	µg/kg	< 44.5	< 47.8		< 212			< 46.8		< 80.0		< 40.5		< 41.5		< 37.5
Aroclor 1242	53469-21-9	µg/kg	**257**	**170**		**2220**			< 46.8		**621**		**346**		< 41.5		< 37.5
Aroclor 1248	12672-29-6	µg/kg	< 44.5	< 47.8		< 212			< 46.8		< 80.0		< 40.5		< 41.5		< 37.5
Aroclor 1254	11097-69-1	µg/kg	**251**	**164**		**1290**			< 46.8		< 80.0		**304**		< 41.5		< 37.5
Aroclor 1260	11096-82-5	µg/kg	< 44.5	< 47.8		< 212			< 46.8		< 80.0		< 40.5		< 41.5		< 37.5
Aroclor 1262	37324-23-5	µg/kg	< 44.5	< 47.8		< 212			< 46.8		< 80.0		< 40.5		< 41.5		< 37.5
Aroclor 1268	11100-14-4	µg/kg	< 44.5	< 47.8		< 212			< 46.8		< 80.0		< 40.5		< 41.5		< 37.5
PCB (Total) (ppm)	CALC-PCBs	µg/kg	**508**	**333**		**3510**			< 95.1		**621**		**650**		< 84.2		< 76.1
Pesticides-SPLP																	
Chlordane	57-74-9	mg/L	< 0.0020	< 0.0020		< 0.0020			< 0.0020		< 0.0020	< 0.0020	< 0.0020		< 0.0020		< 0.0020
Endrin	72-20-8	mg/L	< 0.00020	< 0.00020		< 0.00020			< 0.00020		< 0.00020	< 0.00020	< 0.00020		**0.000017**		**0.000061**
Gamma BHC - Lindane	58-89-9	mg/L	< 0.00010	< 0.00010		< 0.00010			< 0.00010		< 0.00010	< 0.00010	**0.000015**		**0.000015**		< 0.00010
Heptachlor	76-44-8	mg/L	< 0.00010	< 0.00010		< 0.00010			< 0.00010		< 0.00010	< 0.00010	< 0.00010		< 0.00010		< 0.00010
Heptachlor Epoxide	1024-57-3	mg/L	< 0.00010	< 0.00010		< 0.00010			< 0.00010		< 0.00010	< 0.00010	< 0.00010		< 0.00010		< 0.00010
Methoxychlor	72-43-5	mg/L	< 0.0010	< 0.0010		< 0.0010			< 0.0010		< 0.0010	< 0.0010	< 0.0010		< 0.0010		< 0.0010
Toxaphene	8001-35-2	mg/L	< 0.010	< 0.010		< 0.010			< 0.010		< 0.010	< 0.010	< 0.010		< 0.010		< 0.010
Herbicides-SPLP																	
2,4,5-TP (Silvex)	93-72-1	mg/L	< 0.0025	**0.000049**		< 0.0025			< 0.0025		**0.00010**	**0.000055**	**0.0000035**		**0.000096**		**0.00025**
2,4-D	94-75-7	mg/L	**0.00010**	**0.00013**		**0.00013**			**0.000072**		**0.00033**	**0.00049**	**0.00011**		**0.00012**		< 0.0050
Other																	
BTU	BTU	BTUs/lb.											**958**		**232**		**4770**
Cresols (total)-TCLP	1319-77-3	mg/kg															
Cyanide (Reactivity)	57-12-5-R	mg/kg	< 137	< 147		< 130			< 143		< 99.8	< 99.6	< 99.6		< 99.8		< 99.7
Ignitability	IGNITABILITY	mm/sec	< 2.2	< 2.2		**2.2**			< 2.2		**2.2**	< 2.2	< 2.2		< 2.2		< 2.2
Moisture, percent	MOIST	%	**27.0**	**32.2**	**36.1**	**23.5**	**21.1**	**22.0**	**30.0**	**21.6**	**17.6**		**20.1**	**25.5**	**21.1**	**17.3**	**13.7**
Moisture, percent	MOIST	%															
pH	PH	S.U.	**10.2**	**9.8**		**9.3**			**9.9**		**9.7**	**11.5**	**10.3**		**7.6**		**7.8**
Solids, Total	TSOLIDS	%											**78.5**		**82.7**		**82.8**
Sulfide (Reactivity)	18496-25-8-R	mg/kg	< 99.7	< 99.6		< 99.6			< 99.8		< 99.8	< 99.6	< 99.6		< 99.8		< 99.7
Sulfur	7704-34-9	% (w/w)	**0.588**	**1.37**		**0.842**			**1.70**		**2.00**		**0.571**		**0.0995**		**0.170**
Temperature	TEMP	deg c	**23.6**	**23.6**		**23.7**			**23.6**		**23.6**	**24.0**	**24.0**		**24.1**		**24.1**
Total Organic Halides	TOX	mg/kg											< 31.8		< 30.2		< 30.2

Notes:
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
BTU - British Thermal Unit
BTUs/lb. - BTUs per pounds
mm/sec - millimeters per second
S.U. - standard units
w/w - weight by weight
deg C - degrees Celsius

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222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-209 43620.54167 SB-209 (17)_20190604 17 - 17 ft	SB-209 43620.54861 SB-209 (20-24)_20190604 20 - 24 ft	SB-209 43620.54861 SB-209 (22)_20190604 22 - 22 ft	SB-209 43620.55556 SB-209 (25-30)_20190604 25 - 30 ft	SB-209 43620.55556 SB-209 (29)_20190604 29 - 29 ft	SB-209 43620.5625 SB-209 (30-35)_20190604 30 - 35 ft	SB-209 43620.5625 SB-209 (33)_20190604 33 - 33 ft	SB-209 43620.56944 SB-209 (35-40)_20190604 35 - 40 ft	SB-209 43620.56944 SB-209 (39)_20190604 39 - 39 ft	SB-209 43620.57639 SB-209 (40-41)_20190604 40 - 41 ft	SB-209 43620.57639 SB-209 (41)_20190604 41 - 41 ft	SB-210 43620.41667 SB-210 (1-6)_20190604 1 - 6 ft	SB-210 43620.41667 SB-210 (3)_20190604 3 - 3 ft	SB-211 43619.44792 SB-211 (2-10)20190603 2 - 10 ft
Hydrocarbons																
Diesel Range Organics C10-C28	DRO(C10-C28)	mg/kg		**5950**		**1170**		**16500**		**3700**		**7390**		**952**		**2590**
Gasoline Range Organics C6-C10	DRO(C6-C10)	µg/kg	**2350000**		**1440000**		**143000**		**430000**		**13200**		**885000**		**5260**	
Volatile Organic Compounds (VOCs)																
1,1,1-Trichloroethane	71-55-6	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
1,1,2,2-Tetrachloroethane	79-34-5	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
1,1,2-Trichloroethane	79-00-5	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
1,1-Dichloroethane	75-34-3	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
1,1-Dichloroethene	75-35-4	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
1,2,3-Trichlorobenzene	87-61-6	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
1,2,4-Trichlorobenzene	120-82-1	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
1,2-Dibromo-3-chloropropane	96-12-8	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
1,2-Dibromoethane	106-93-4	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
1,2-Dichlorobenzene	95-50-1	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
1,2-Dichloroethane	107-06-2	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
1,2-Dichloropropane	78-87-5	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
1,3-Dichlorobenzene	541-73-1	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
1,4-Dioxane	123-91-1	µg/kg	< 27600		< 27600		< 2920		< 37500		< 3300		< 29100		**4000**	
2-Butanone	78-93-3	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
2-Hexanone	591-78-6	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
4-Methyl-2-pentanone	108-10-1	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Acetone	67-64-1	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		**158**	
Benzene	71-43-2	µg/kg	**93800**		**59100**		**747**		**6630**		**1910**		**40300**		< 149	
Bromochloromethane	74-97-5	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Bromodichloromethane	75-27-4	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Bromoform	75-25-2	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Bromomethane	74-83-9	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Carbon disulfide	75-15-0	µg/kg	< 1110		**713**		< 117		< 1500		**73.6**		< 1160		< 149	
Carbon tetrachloride	56-23-5	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Chlorobenzene	108-90-7	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Chloroethane	75-00-3	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Chloroform	67-66-3	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Chloromethane	74-87-3	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
cis-1,2-Dichloroethene	156-59-2	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
cis-1,3-Dichloropropene	10061-01-5	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Cyclohexane	110-82-7	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Dibromochloromethane	124-48-1	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Dichlorodifluoromethane	75-71-8	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Ethylbenzene	100-41-4	µg/kg	**387000**		**207000**		**6140**		**78200**		**3770**		**108000**		**246**	
Isopropylbenzene	98-82-8	µg/kg	**4860**		**3310**		**394**		**5750**		**118**		**2130**		**80.7**	
m+p-Xylene	1330-20-7-M,P	µg/kg	**345000**		**149000**		**6740**		**64900**		**3390**		**104000**		**999**	
Methyl acetate	79-20-9	µg/kg	< 1110		< 1100		**78.0**		< 1500		< 132		< 1160		**6410**	
Methyl tert-butyl ether	1634-04-4	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Methylcyclohexane	108-87-2	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Methylene chloride	75-09-2	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
o-Xylene	95-47-6	µg/kg	**189000**		**69000**		**3230**		**31200**		**1520**		**47800**		**427**	
Styrene	100-42-5	µg/kg	**73900**		**34300**		**313**		**1420**		**372**		**29700**		< 149	
Tetrachloroethene	127-18-4	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		**471**	
Toluene	108-88-3	µg/kg	**314000**		**177000**		**2370**		**33500**		**2300**		**104000**		**448**	
trans-1,2-Dichloroethene	156-60-5	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
trans-1,3-Dichloropropene	10061-02-6	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Trichloroethene	79-01-6	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		**88.8**	
Trichlorofluoromethane	75-69-4	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Vinyl chloride	75-01-4	µg/kg	< 1110		< 1100		< 117		< 1500		< 132		< 1160		< 149	
Xylenes (total)	1330-20-7	µg/kg	**534000**		**218000**		**9960**		**96200**		**4910**		**152000**		**1430**	
VOCs-Synthetic Precipitation Leaching Procedure (SPLP)																
1,1-Dichloroethene	75-35-4	mg/L		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020				< 0.0020
1,2-Dichloroethane	107-06-2	mg/L		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020				< 0.0020
2-Butanone	78-93-3	mg/L		**0.0027**		**0.0042**		**0.0023**		**0.0027**		**0.0027**				**0.0020**
Benzene	71-43-2	mg/L		**0.79**		**0.057**		**0.042**		**0.096**		**0.028**				< 0.0020
Carbon tetrachloride	56-23-5	mg/L		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020				< 0.0020
Chlorobenzene	108-90-7	mg/L		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020				< 0.0020
Chloroform	67-66-3	mg/L		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020				< 0.0020
Tetrachloroethene	127-18-4	mg/L		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020				< 0.0020
Trichloroethene	79-01-6	mg/L		**0.0012**		< 0.0020		< 0.0020		< 0.0020		< 0.0020				**0.0024**
Vinyl chloride	75-01-4	mg/L		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020				< 0.0020
Semivolatile Organic Compounds (SVOCs)																
1,1'-Biphenyl	92-52-4	µg/kg		**13000**		**955**		**67500**		**13400**		**58500**		< 413		< 812
1,2,4,5-Tetrachlorobenzene	95-94-3	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
2,2'-oxybis(1-Chloropropane)	108-60-1	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
2,3,4,6-Tetrachlorophenol	58-90-2	µg/kg		< 1910		< 860		< 20300		< 20700		< 20400		< 2030		< 4000
2,4,5-Trichlorophenol	95-95-4	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
2,4,6-Trichlorophenol	88-06-2	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
2,4-Dichlorophenol	120-83-2	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
2,4-Dimethylphenol	105-67-9	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
2,4-Dinitrophenol	51-28-5	µg/kg		< 3880		< 1750		< 41200		< 42000		< 41400		< 4130		< 8120
2,4-Dinitrotoluene	121-14-2	µg/kg		< 1910		< 860		< 20300		< 20700		< 20400		< 2030		< 4000
2,6-Dinitrotoluene	606-20-2	µg/kg		< 1910		< 860		< 20300		< 20700		< 20400		< 2030		< 4000
2-Chloronaphthalene	91-58-7	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-209 43620.54167 SB-209 (17)_20190604 17 - 17 ft	SB-209 43620.54861 SB-209 (20-24)_20190604 20 - 24 ft	SB-209 43620.54861 SB-209 (22)_20190604 22 - 22 ft	SB-209 43620.55556 SB-209 (25-30)_20190604 25 - 30 ft	SB-209 43620.55556 SB-209 (29)_20190604 29 - 29 ft	SB-209 43620.5625 SB-209 (30-35)_20190604 30 - 35 ft	SB-209 43620.5625 SB-209 (33)_20190604 33 - 33 ft	SB-209 43620.56944 SB-209 (35-40)_20190604 35 - 40 ft	SB-209 43620.56944 SB-209 (39)_20190604 39 - 39 ft	SB-209 43620.57639 SB-209 (40-41)_20190604 40 - 41 ft	SB-209 43620.57639 SB-209 (41)_20190604 41 - 41 ft	SB-210 43620.41667 SB-210 (1-6)_20190604 1 - 6 ft	SB-210 43620.41667 SB-210 (3)_20190604 3 - 3 ft	SB-211 43619.44792 SB-211 (2-10)20190603 2 - 10 ft
SVOCs (continued)																
2-Chlorophenol	95-57-8	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
2-Methylnaphthalene	91-57-6	µg/kg		**177000**		**18900**		**824000**		**108000**		**607000**		**1090**		< 812
2-Methylphenol	95-48-7	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
2-Nitroaniline	88-74-4	µg/kg		< 1910		< 860		< 20300		< 20700		< 20400		< 2030		< 4000
2-Nitrophenol	88-75-5	µg/kg		< 1910		< 860		< 20300		< 20700		< 20400		< 2030		< 4000
3,3'-Dichlorobenzidine	91-94-1	µg/kg		< 1910		< 860		< 20300		< 20700		< 20400		< 2030		< 4000
3-and 4-Methylphenol	3,4-MEPH	µg/kg		< 388		**625**		< 4120		< 4200		< 4140		< 413		< 812
3-Nitroaniline	99-09-2	µg/kg		< 1910		< 860		< 20300		< 20700		< 20400		< 2030		< 4000
4,6-Dinitro-2-methylphenol	534-52-1	µg/kg		< 3880		< 1750		< 41200		< 42000		< 41400		< 4130		< 8120
4-Bromophenyl phenyl ether	101-55-3	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
4-Chloro-3-methylphenol	59-50-7	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
4-Chloroaniline	106-47-8	µg/kg		< 1910		< 860		< 20300		< 20700		< 20400		< 2030		< 4000
4-Chlorophenyl phenyl ether	7005-72-3	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
4-Nitroaniline	100-01-6	µg/kg		< 1910		< 860		< 20300		< 20700		< 20400		< 2030		< 4000
4-Nitrophenol	100-02-7	µg/kg		< 3880		< 1750		< 41200		< 42000		< 41400		< 4130		< 8120
Acenaphthene	83-32-9	µg/kg		**11100**		**432**		**39400**		**21400**		**33500**		**2630**		< 812
Acenaphthylene	208-96-8	µg/kg		**58500**		**840**		**271000**		**51600**		**234000**		< 413		< 812
Acetophenone	98-86-2	µg/kg		**487**		**222**		< 4120		< 4200		< 4140		< 413		< 812
Anthracene	120-12-7	µg/kg		**23100**		**833**		**103000**		**52400**		**108000**		**5080**		**1160**
Atrazine	1912-24-9	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
Benzaldehyde	100-52-7	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		**697**		< 812
Benzo(a)anthracene	56-55-3	µg/kg		**12500**		**496**		**79200**		**51800**		**76900**		**7820**		**1940**
Benzo(a)pyrene	50-32-8	µg/kg		**8900**		**361**		**55600**		**35700**		**52500**		**6010**		**1570**
Benzo(b)fluoranthene	205-99-2	µg/kg		**6530**		**276**		**45100**		**33200**		**43100**		**7850**		**1850**
Benzo(ghi)perylene	191-24-2	µg/kg		**3240**		< 175		**20600**		**15400**		**20900**		**2310**		< 812
Benzo(k)fluoranthene	207-08-9	µg/kg		**2930**		**163**		**19600**		**14800**		**19900**		**3540**		**811**
bis(2-Chloroethoxy)methane	111-91-1	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
bis(2-Chloroethyl) ether	111-44-4	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
bis(2-Ethylhexyl) phthalate	117-81-7	µg/kg		< 388		< 175		< 4120		**17200**		< 4140		**10300**		**12000**
Butyl benzyl phthalate	85-68-7	µg/kg		< 388		< 175		< 4120		**6260**		< 4140		**41500**		**6770**
Caprolactam	105-60-2	µg/kg		**833**		< 175		< 4120		< 4200		< 4140		< 413		< 812
Carbazole	86-74-8	µg/kg		**1230**		< 175		**11900**		**12800**		**11100**		**2330**		< 812
Chrysene	218-01-9	µg/kg		**11700**		**457**		**68700**		**44900**		**66100**		**7110**		**1870**
Dibenz(a,h)anthracene	53-70-3	µg/kg		**917**		< 175		**5680**		**4820**		**6600**		**673**		< 812
Dibenzofuran	132-64-9	µg/kg		**4060**		< 175		**33900**		**15300**		**29600**		**1590**		< 812
Diethyl phthalate	84-66-2	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
Dimethyl phthalate	131-11-3	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
Di-n-butyl phthalate	84-74-2	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		**615**		< 812
Di-n-octyl phthalate	117-84-0	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
Fluoranthene	206-44-0	µg/kg		**22300**		**970**		**153000**		**107000**		**150000**		**18000**		**4540**
Fluorene	86-73-7	µg/kg		**29700**		**1430**		**167000**		**52000**		**182000**		**2780**		**881**
Hexachlorobenzene	118-74-1	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
Hexachlorobutadiene	87-68-3	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
Hexachlorocyclopentadiene	77-47-4	µg/kg		< 1910		< 860		< 20300		< 20700		< 20400		< 2030		< 4000
Hexachloroethane	67-72-1	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg		**3270**		< 175		**21300**		**16600**		**20500**		**2700**		**832**
Isophorone	78-59-1	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
Naphthalene	91-20-3	µg/kg		**444000**		**63600**		**1980000**		**192000**		**1540000**		**1600**		**6060**
Nitrobenzene	98-95-3	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
N-Nitroso-di-n-propylamine	621-64-7	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
N-Nitrosodiphenylamine	86-30-6	µg/kg		< 388		< 175		< 4120		< 4200		< 4140		< 413		< 812
Pentachlorophenol	87-86-5	µg/kg		< 3880		< 1750		< 41200		< 42000		< 41400		< 4130		< 8120
Phenanthrene	85-01-8	µg/kg		**87200**		**3480**		**444000**		**195000**		**464000**		**18000**		**4670**
Phenol	108-95-2	µg/kg		< 388		**3720**		< 4120		< 4200		< 4140		< 413		< 812
Pyrene	129-00-0	µg/kg		**40100**		**1560**		**186000**		**108000**		**184000**		**14000**		**3810**
SVOCs-SPLP																
1,4-Dichlorobenzene	106-46-7	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010				< 0.010
2,4,5-Trichlorophenol	95-95-4	mg/L		< 0.025		< 0.025		< 0.025		< 0.025		< 0.025				< 0.025
2,4,6-Trichlorophenol	88-06-2	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010				< 0.010
2,4-Dinitrotoluene	121-14-2	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010				< 0.010
2-Methylphenol	95-48-7	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		**0.0041**				< 0.010
3-and 4-Methylphenol	3,4-MEPH	mg/L		**0.0099**		**0.0062**		< 0.010		< 0.010		**0.0052**				< 0.010
Hexachlorobenzene	118-74-1	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010				< 0.010
Hexachlorobutadiene	87-68-3	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010				< 0.010
Hexachloroethane	67-72-1	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010				< 0.010
Nitrobenzene	98-95-3	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010				< 0.010
Pentachlorophenol	87-86-5	mg/L		< 0.025		< 0.025		< 0.025		< 0.025		< 0.025				< 0.025
Pyridine	110-86-1	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010				< 0.010
Metals																
Antimony	7440-36-0	mg/kg		< 3.8		< 7.3		< 3.8		**0.48**		< 3.9		< 3.5		< 3.4
Arsenic	7440-38-2	mg/kg		**3.2**		**11.9**		**1.6**		**13.6**		**1.6**		**5.4**		**12.7**
Beryllium	7440-41-7	mg/kg		**0.25**		**1.0**		**0.20**		**0.33**		**0.17**		**0.37**		**0.21**
Boron	7440-42-8	mg/kg		**3.3**		**44.3**		**7.8**		**18.6**		**2.6**		**24.3**		**25.6**
Cadmium	7440-43-9	mg/kg		**0.51**		**1.7**		**0.32**		**5.0**		**0.19**		**2.6**		**1.9**
Chromium	7440-47-3	mg/kg		**10.4**		**42.9**		**8.6**		**31.0**		**7.4**		**25.7**		**29.3**
Chromium, Hexavalent	18540-29-9	mg/kg		< 2.3		< 27.1		< 1.3		< 6.3		< 1.3		< 1.2		< 1.2
Chromium, Trivalent	16065-83-1	mg/kg		**10.4**		**42.9**		**8.6**		**31.0**		**7.4**		**25.7**		**24.2**
Cobalt	7440-48-4	mg/kg		**3.9**		**12.2**		**4.2**		**5.7**		**4.1**		**5.7**		**7.5**
Copper	7440-50-8	mg/kg		**8.6**		**11.1**		**6.6**		**176**		**5.2**		**69.2**		**84.9**

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-209 43620.54167 SB-209 (17)_20190604 17 - 17 ft	SB-209 43620.54861 SB-209 (20-24)_20190604 20 - 24 ft	SB-209 43620.54861 SB-209 (22)_20190604 22 - 22 ft	SB-209 43620.55556 SB-209 (25-30)_20190604 25 - 30 ft	SB-209 43620.55556 SB-209 (29)_20190604 29 - 29 ft	SB-209 43620.5625 SB-209 (30-35)_20190604 30 - 35 ft	SB-209 43620.5625 SB-209 (33)_20190604 33 - 33 ft	SB-209 43620.56944 SB-209 (35-40)_20190604 35 - 40 ft	SB-209 43620.56944 SB-209 (39)_20190604 39 - 39 ft	SB-209 43620.57639 SB-209 (40-41)_20190604 40 - 41 ft	SB-209 43620.57639 SB-209 (41)_20190604 41 - 41 ft	SB-210 43620.41667 SB-210 (1-6)_20190604 1 - 6 ft	SB-210 43620.41667 SB-210 (3)_20190604 3 - 3 ft	SB-211 43619.44792 SB-211 (2-10)20190603 2 - 10 ft
Metals (continued)																
Lead	7439-92-1	mg/kg		**20.9**		**16.6**		**2.6**		**539**		**2.1**		**381**		**271**
Mercury	7439-97-6	mg/kg		**0.092**		< 0.090		< 0.045		**0.047**		< 0.042		**1.4**		**0.80**
Nickel	7440-02-0	mg/kg		**7.8**		**31.7**		**8.3**		**26.2**		**8.2**		**17.2**		**21.5**
Selenium	7782-49-2	mg/kg		**0.50**		**1.3**		< 0.63		**0.95**		< 0.64		**0.39**		**0.70**
Silver	7440-22-4	mg/kg		< 0.63		< 1.2		< 0.63		**0.97**		< 0.64		**0.73**		**0.081**
Thallium	7440-28-0	mg/kg		**0.17**		**0.99**		< 0.63		**0.62**		**0.17**		**0.51**		< 0.56
Tin	7440-31-5	mg/kg		< 3.1		< 6.0		< 3.1		**18.1**		< 3.2		**5.3**		**6.5**
Vanadium	7440-62-2	mg/kg		**15.5**		**63.9**		**14.9**		**21.2**		**12.4**		**16.9**		**27.3**
Zinc	7440-66-6	mg/kg		**28.5**		**93.9**		**19.6**		**1030**		**19.3**		**522**		**648**
Metals-SPLP																
Arsenic	7440-38-2	mg/L		< 0.050		< 0.050		< 0.050		< 0.050		< 0.050				< 0.050
Barium	7440-39-3	mg/L		**0.17**		< 1.0		< 1.0		**0.15**		**0.72**				**0.91**
Cadmium	7440-43-9	mg/L		< 0.012		< 0.012		< 0.012		< 0.012		**0.0023**				< 0.012
Chromium	7440-47-3	mg/L		< 0.050		< 0.050		< 0.050		< 0.050		< 0.050				< 0.050
Copper	7440-50-8	mg/L		< 0.12		< 0.12		< 0.12		< 0.12		< 0.12				< 0.12
Lead	7439-92-1	mg/L		**0.038**		**0.015**		< 0.025		**0.014**		**0.019**				**0.013**
Mercury	7439-97-6	mg/L		< 0.00020		< 0.00020		< 0.00020		< 0.00020		< 0.00020				< 0.00020
Nickel	7440-02-0	mg/L		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20				**0.077**
Selenium	7782-49-2	mg/L		< 0.050		< 0.050		< 0.050		< 0.050		< 0.050				< 0.050
Silver	7440-22-4	mg/L		< 0.050		< 0.050		< 0.050		< 0.050		< 0.050				< 0.050
Zinc	7440-66-6	mg/L		**0.13**		**0.025**		**0.033**		**0.11**		**0.026**				**2.0**
Cyanide																
Total Cyanide	57-12-5	mg/kg		**0.75**		**0.65**		**0.23**		**0.40**		**0.32**		**0.28**		**1.3**
Polychlorinated Biphenyls (PCBs)																
Aroclor 1016	12674-11-2	µg/kg		< 37.1		< 85.7		< 40.6		< 40.8		< 41.3		< 40.7		< 39.1
Aroclor 1221	11104-28-2	µg/kg		< 75.3		< 174		< 82.5		< 82.9		< 83.9		< 82.6		< 79.5
Aroclor 1232	11141-16-5	µg/kg		< 37.1		< 85.7		< 40.6		< 40.8		< 41.3		< 40.7		< 39.1
Aroclor 1242	53469-21-9	µg/kg		< 37.1		< 85.7		< 40.6		**119**		< 41.3		**177**		< 39.1
Aroclor 1248	12672-29-6	µg/kg		< 37.1		< 85.7		< 40.6		< 40.8		< 41.3		< 40.7		< 39.1
Aroclor 1254	11097-69-1	µg/kg		< 37.1		**171**		< 40.6		**179**		< 41.3		**283**		**321**
Aroclor 1260	11096-82-5	µg/kg		< 37.1		< 85.7		< 40.6		< 40.8		< 41.3		**403**		**336**
Aroclor 1262	37324-23-5	µg/kg		< 37.1		< 85.7		< 40.6		< 40.8		< 41.3		< 40.7		< 39.1
Aroclor 1268	11100-14-4	µg/kg		< 37.1		< 85.7		< 40.6		< 40.8		< 41.3		< 40.7		< 39.1
PCB (Total) (ppm)	CALC-PCBs	µg/kg		< 75.3		**171**		< 82.5		**298**		< 83.9		**862**		**657**
Pesticides-SPLP																
Chlordane	57-74-9	mg/L		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020				< 0.0020
Endrin	72-20-8	mg/L		**0.000036**		< 0.00020		**0.000019**		< 0.00020		< 0.00020				< 0.00020
Gamma BHC - Lindane	58-89-9	mg/L		< 0.00010		< 0.00010		< 0.00010		**0.000026**		**0.000014**				< 0.00010
Heptachlor	76-44-8	mg/L		< 0.00010		< 0.00010		< 0.00010		< 0.00010		< 0.00010				< 0.00010
Heptachlor Epoxide	1024-57-3	mg/L		< 0.00010		< 0.00010		< 0.00010		< 0.00010		< 0.00010				< 0.00010
Methoxychlor	72-43-5	mg/L		< 0.0010		< 0.0010		< 0.0010		< 0.0010		< 0.0010				< 0.0010
Toxaphene	8001-35-2	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010				< 0.010
Herbicides-SPLP																
2,4,5-TP (Silvex)	93-72-1	mg/L		**0.0000043**		< 0.0025		< 0.0025		< 0.0025		**0.000021**				< 0.0025
2,4-D	94-75-7	mg/L		**0.000025**		**0.000048**		**0.00013**		< 0.0050		< 0.0050				**0.00016**
Other																
BTU	BTU	BTUs/lb.		**440**		**4430**		**548**		**1380**		**323**		**1110**		**508**
Cresols (total)-TCLP	1319-77-3	mg/kg														
Cyanide (Reactivity)	57-12-5-R	mg/kg		< 99.6		< 99.4		< 100		< 99.5		< 99.4				< 100
Ignitability	IGNITABILITY	mm/sec		< 2.2		< 2.2		< 2.2		< 2.2		< 2.2				**2.2**
Moisture, percent	MOIST	%	**13.4**	**13.6**	**15.0**	**61.7**	**14.2**	**19.4**	**21.2**	**20.2**	**17.6**	**20.4**	**17.5**	**19.2**	**15.9**	**17.5**
Moisture, percent	MOIST	%														
pH	PH	S.U.		**8.1**		**7.8**		**8.4**		**9.9**		**8.4**				**9.4**
Solids, Total	TSOLIDS	%		**82.7**		**53.4**		**79.2**		**82.6**		**84.9**		**88.1**		**68.3**
Sulfide (Reactivity)	18496-25-8-R	mg/kg		< 99.6		< 99.4		< 100		< 99.5		< 99.4				< 100
Sulfur	7704-34-9	% (w/w)		**0.0873**		**1.27**		**0.266**		**0.131**		**0.231**		**0.873**		**2.24**
Temperature	TEMP	deg c		**24.2**		**24.1**		**24.0**		**23.5**		**24.0**				**23.8**
Total Organic Halides	TOX	mg/kg		< 30.2		< 46.8		< 31.6		< 30.3		< 29.4		< 28.4		< 36.6

Notes:
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
BTU - British Thermal Unit
BTUs/lb. - BTUs per pounds
mm/sec - millimeters per second
S.U. - standard units
w/w - weight by weight
deg C - degrees Celsius

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-211 43619.44792 SB-211 (8)20190603 8 - 8 ft	SB-212 43608.625 SB-212 (2-5)20190523 2 - 5 ft	SB-212 43619.46875 SB-212 (5-10)20190603 5 - 10 ft	SB-212 43619.46875 SB-212 (8)20190603 8 - 8 ft	SB-212 43620.34722 SB-212 (10-15)_20190604 10 - 15 ft	SB-212 43620.34722 SB-212 (13)_20190604 13 - 13 ft	SB-212 43620.35417 SB-212 (15-20)_20190604 15 - 20 ft	SB-212 43620.35417 SB-212 (19)_20190604 19 - 19 ft	SB-212 43620.36111 SB-212 (20-25)_20190604 20 - 25 ft	SB-212 43620.36111 SB-212 (23)_20190604 23 - 23 ft	SB-212 43620.36806 SB-212 (25-30)_20190604 25 - 30 ft	SB-212 43620.36806 SB-212 (28)_20190604 28 - 28 ft	SB-212 43620.375 SB-212 (30-35)_20190604 30 - 35 ft	SB-212 43620.375 SB-212 (33)_20190604 33 - 33 ft
Hydrocarbons																
Diesel Range Organics C10-C28	DRO(C10-C28)	mg/kg		**376**	**420**		**426**		**881**		**1060**		**1540**		**640**	
Gasoline Range Organics C6-C10	DRO(C6-C10)	µg/kg	**22800**	**252**		**432**		**6320**		**72900**		**245000**		**915000**		**199000**
Volatile Organic Compounds (VOCs)																
1,1,1-Trichloroethane	71-55-6	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
1,1,2,2-Tetrachloroethane	79-34-5	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
1,1,2-Trichloroethane	79-00-5	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
1,1-Dichloroethane	75-34-3	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
1,1-Dichloroethene	75-35-4	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
1,2,3-Trichlorobenzene	87-61-6	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
1,2,4-Trichlorobenzene	120-82-1	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
1,2-Dibromo-3-chloropropane	96-12-8	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
1,2-Dibromoethane	106-93-4	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
1,2-Dichlorobenzene	95-50-1	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
1,2-Dichloroethane	107-06-2	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
1,2-Dichloropropane	78-87-5	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
1,3-Dichlorobenzene	541-73-1	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
1,4-Dioxane	123-91-1	µg/kg	< 3410	< 62.0		< 54.6		< 2870		< 14600		< 15200		< 32800		< 14300
2-Butanone	78-93-3	µg/kg	< 136	**21.0**		**5.5**		**73.2**		< 585		< 606		< 1310		< 574
2-Hexanone	591-78-6	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
4-Methyl-2-pentanone	108-10-1	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Acetone	67-64-1	µg/kg	**109**	**262**		**31.0**		**162**		< 585		< 606		< 1310		< 574
Benzene	71-43-2	µg/kg	**67.7**	< 2.5		**97.7**		**1200**		**644**		**8900**		**4380**		**10300**
Bromochloromethane	74-97-5	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Bromodichloromethane	75-27-4	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Bromoform	75-25-2	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Bromomethane	74-83-9	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Carbon disulfide	75-15-0	µg/kg	**91.7**	**21.4**		**6.2**		< 115		< 585		< 606		< 1310		< 574
Carbon tetrachloride	56-23-5	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Chlorobenzene	108-90-7	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Chloroethane	75-00-3	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Chloroform	67-66-3	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Chloromethane	74-87-3	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
cis-1,2-Dichloroethene	156-59-2	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
cis-1,3-Dichloropropene	10061-01-5	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Cyclohexane	110-82-7	µg/kg	**70.9**	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Dibromochloromethane	124-48-1	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Dichlorodifluoromethane	75-71-8	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Ethylbenzene	100-41-4	µg/kg	**328**	< 2.5		**9.5**		**4200**		**13700**		**46100**		**178000**		**34800**
Isopropylbenzene	98-82-8	µg/kg	**991**	< 2.5		**16.3**		**911**		**1460**		**1220**		**9010**		**1240**
m+p-Xylene	1330-20-7-M,P	µg/kg	**790**	< 5.0		**10.2**		**1990**		**7930**		**36200**		**136000**		**30400**
Methyl acetate	79-20-9	µg/kg	**263**	< 2.5		< 2.2		**4320**		< 585		< 606		< 1310		< 574
Methyl tert-butyl ether	1634-04-4	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Methylcyclohexane	108-87-2	µg/kg	< 136	< 2.5		**2.7**		< 115		< 585		< 606		< 1310		< 574
Methylene chloride	75-09-2	µg/kg	< 136	**2.2**		< 2.2		< 115		< 585		< 606		< 1310		< 574
o-Xylene	95-47-6	µg/kg	**1100**	< 2.5		**7.3**		**1400**		**4370**		**15800**		**60600**		**13600**
Styrene	100-42-5	µg/kg	< 136	< 2.5		**5.0**		**143**		< 585		**504**		**2750**		**414**
Tetrachloroethene	127-18-4	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Toluene	108-88-3	µg/kg	**307**	< 2.5		**32.9**		**336**		< 585		**24800**		**18700**		**19900**
trans-1,2-Dichloroethene	156-60-5	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
trans-1,3-Dichloropropene	10061-02-6	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Trichloroethene	79-01-6	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Trichlorofluoromethane	75-69-4	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Vinyl chloride	75-01-4	µg/kg	< 136	< 2.5		< 2.2		< 115		< 585		< 606		< 1310		< 574
Xylenes (total)	1330-20-7	µg/kg	**1890**	< 5.0		**17.6**		**3390**		**12300**		**51900**		**196000**		**44000**
VOCs-Synthetic Precipitation Leaching Procedure (SPLP)																
1,1-Dichloroethene	75-35-4	mg/L		< 0.010	< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020	
1,2-Dichloroethane	107-06-2	mg/L		< 0.010	< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020	
2-Butanone	78-93-3	mg/L		**0.024**	**0.0025**		**0.0018**		**0.0023**		< 0.0050		**0.0020**		**0.0029**	
Benzene	71-43-2	mg/L		< 0.010	**0.0022**		**0.11**		**0.0059**		**0.091**		**0.12**		**0.17**	
Carbon tetrachloride	56-23-5	mg/L		< 0.010	< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020	
Chlorobenzene	108-90-7	mg/L		< 0.010	< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020	
Chloroform	67-66-3	mg/L		**0.0055**	< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020	
Tetrachloroethene	127-18-4	mg/L		< 0.010	< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020	
Trichloroethene	79-01-6	mg/L		< 0.010	< 0.0020		< 0.0020		< 0.0020		< 0.0020		**0.0037**		< 0.0020	
Vinyl chloride	75-01-4	mg/L		< 0.010	< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020	
Semivolatile Organic Compounds (SVOCs)																
1,1'-Biphenyl	92-52-4	µg/kg		< 403	**127**		< 409		< 120		**1120**		**6320**		**2660**	
1,2,4,5-Tetrachlorobenzene	95-94-3	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
2,2'-oxybis(1-Chloropropane)	108-60-1	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
2,3,4,6-Tetrachlorophenol	58-90-2	µg/kg		< 1980	< 443		< 2010		< 589		< 390		< 2030		< 393	
2,4,5-Trichlorophenol	95-95-4	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
2,4,6-Trichlorophenol	88-06-2	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
2,4-Dichlorophenol	120-83-2	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
2,4-Dimethylphenol	105-67-9	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
2,4-Dinitrophenol	51-28-5	µg/kg		< 4030	< 899		< 4090		< 1200		< 791		< 4120		< 797	
2,4-Dinitrotoluene	121-14-2	µg/kg		< 1980	< 443		< 2010		< 589		< 390		< 2030		< 393	
2,6-Dinitrotoluene	606-20-2	µg/kg		< 1980	< 443		< 2010		< 589		< 390		< 2030		< 393	
2-Chloronaphthalene	91-58-7	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-211 43619.44792 SB-211 (8)20190603 8 - 8 ft	SB-212 43608.625 SB-212 (2-5)20190523 2 - 5 ft	SB-212 43619.46875 SB-212 (5-10)20190603 5 - 10 ft	SB-212 43619.46875 SB-212 (8)20190603 8 - 8 ft	SB-212 43620.34722 SB-212 (10-15)_20190604 10 - 15 ft	SB-212 43620.34722 SB-212 (13)_20190604 13 - 13 ft	SB-212 43620.35417 SB-212 (15-20)_20190604 15 - 20 ft	SB-212 43620.35417 SB-212 (19)_20190604 19 - 19 ft	SB-212 43620.36111 SB-212 (20-25)_20190604 20 - 25 ft	SB-212 43620.36111 SB-212 (23)_20190604 23 - 23 ft	SB-212 43620.36806 SB-212 (25-30)_20190604 25 - 30 ft	SB-212 43620.36806 SB-212 (28)_20190604 28 - 28 ft	SB-212 43620.375 SB-212 (30-35)_20190604 30 - 35 ft	SB-212 43620.375 SB-212 (33)_20190604 33 - 33 ft
SVOCs (continued)																
2-Chlorophenol	95-57-8	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
2-Methylnaphthalene	91-57-6	µg/kg		< 403	**393**		**969**		**13700**		**16100**		**77600**		**41800**	
2-Methylphenol	95-48-7	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
2-Nitroaniline	88-74-4	µg/kg		< 1980	< 443		< 2010		< 589		< 390		< 2030		< 393	
2-Nitrophenol	88-75-5	µg/kg		< 1980	< 443		< 2010		< 589		< 390		< 2030		< 393	
3,3'-Dichlorobenzidine	91-94-1	µg/kg		< 1980	< 443		< 2010		< 589		< 390		< 2030		< 393	
3-and 4-Methylphenol	3,4-MEPH	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
3-Nitroaniline	99-09-2	µg/kg		< 1980	< 443		< 2010		< 589		< 390		< 2030		< 393	
4,6-Dinitro-2-methylphenol	534-52-1	µg/kg		< 4030	< 899		< 4090		< 1200		< 791		< 4120		< 797	
4-Bromophenyl phenyl ether	101-55-3	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
4-Chloro-3-methylphenol	59-50-7	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
4-Chloroaniline	106-47-8	µg/kg		< 1980	< 443		< 2010		< 589		< 390		< 2030		< 393	
4-Chlorophenyl phenyl ether	7005-72-3	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
4-Nitroaniline	100-01-6	µg/kg		< 1980	< 443		< 2010		< 589		< 390		< 2030		< 393	
4-Nitrophenol	100-02-7	µg/kg		< 4030	< 899		< 4090		< 1200		< 791		< 4120		< 797	
Acenaphthene	83-32-9	µg/kg		< 403	**1200**		**1000**		**6890**		**886**		**4220**		**4060**	
Acenaphthylene	208-96-8	µg/kg		**543**	**988**		< 409		**961**		**4370**		**27600**		**8320**	
Acetophenone	98-86-2	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
Anthracene	120-12-7	µg/kg		**1130**	**3260**		**784**		**3170**		**2190**		**12200**		**5410**	
Atrazine	1912-24-9	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
Benzaldehyde	100-52-7	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
Benzo(a)anthracene	56-55-3	µg/kg		**3080**	**7320**		**1250**		**2400**		**1320**		**7820**		**3190**	
Benzo(a)pyrene	50-32-8	µg/kg		**3280**	**4080**		**1000**		**1690**		**870**		**5490**		**2040**	
Benzo(b)fluoranthene	205-99-2	µg/kg		**5420**	**7000**		**1230**		**1400**		**822**		**3940**		**1410**	
Benzo(ghi)perylene	191-24-2	µg/kg		**3710**	**2960**		**530**		**805**		**358**		**2110**		**709**	
Benzo(k)fluoranthene	207-08-9	µg/kg		**2230**	**2980**		**459**		**561**		**859**		**1590**		**593**	
bis(2-Chloroethoxy)methane	111-91-1	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
bis(2-Chloroethyl) ether	111-44-4	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
bis(2-Ethylhexyl) phthalate	117-81-7	µg/kg		**1150**	**275**		< 409		< 120		< 79.1		< 412		< 79.7	
Butyl benzyl phthalate	85-68-7	µg/kg		< 403	**387**		< 409		< 120		< 79.1		< 412		< 79.7	
Caprolactam	105-60-2	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
Carbazole	86-74-8	µg/kg		**687**	**1300**		< 409		**304**		< 79.1		< 412		**164**	
Chrysene	218-01-9	µg/kg		**4000**	**7030**		**1180**		**2290**		**1190**		**7170**		**2890**	
Dibenz(a,h)anthracene	53-70-3	µg/kg		**753**	**826**		< 409		**203**		**89.3**		**582**		**212**	
Dibenzofuran	132-64-9	µg/kg		< 403	**982**		< 409		**484**		**356**		**1910**		**702**	
Diethyl phthalate	84-66-2	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
Dimethyl phthalate	131-11-3	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
Di-n-butyl phthalate	84-74-2	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
Di-n-octyl phthalate	117-84-0	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
Fluoranthene	206-44-0	µg/kg		**6130**	**15300**		**2380**		**4190**		**2060**		**12600**		**4680**	
Fluorene	86-73-7	µg/kg		< 403	**1620**		**781**		**3640**		**2790**		**16500**		**6020**	
Hexachlorobenzene	118-74-1	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
Hexachlorobutadiene	87-68-3	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
Hexachlorocyclopentadiene	77-47-4	µg/kg		< 1980	< 443		< 2010		< 589		< 390		< 2030		< 393	
Hexachloroethane	67-72-1	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg		**3490**	**3290**		**552**		**740**		**311**		**1900**		**648**	
Isophorone	78-59-1	µg/kg		< 403	**245**		< 409		< 120		< 79.1		< 412		< 79.7	
Naphthalene	91-20-3	µg/kg		< 403	**906**		**3300**		**37400**		**43800**		**169000**		**89300**	
Nitrobenzene	98-95-3	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
N-Nitroso-di-n-propylamine	621-64-7	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
N-Nitrosodiphenylamine	86-30-6	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
Pentachlorophenol	87-86-5	µg/kg		< 4030	< 899		< 4090		< 1200		< 791		< 4120		< 797	
Phenanthrene	85-01-8	µg/kg		**2300**	**10900**		**2560**		**12300**		**8310**		**47900**		**20300**	
Phenol	108-95-2	µg/kg		< 403	< 89.9		< 409		< 120		< 79.1		< 412		< 79.7	
Pyrene	129-00-0	µg/kg		**5530**	**16900**		**2580**		**6720**		**3900**		**21200**		**9610**	
SVOCs-SPLP																
1,4-Dichlorobenzene	106-46-7	mg/L		< 0.010	< 0.010		< 0.010		< 0.010		**0.028**		< 0.014		< 0.010	
2,4,5-Trichlorophenol	95-95-4	mg/L		< 0.025	< 0.025		< 0.025		< 0.025		**0.041**		< 0.035		< 0.025	
2,4,6-Trichlorophenol	88-06-2	mg/L		< 0.010	< 0.010		< 0.010		< 0.010		**0.037**		< 0.014		< 0.010	
2,4-Dinitrotoluene	121-14-2	mg/L		< 0.010	< 0.010		< 0.010		< 0.010		**0.039**		< 0.014		< 0.010	
2-Methylphenol	95-48-7	mg/L		< 0.010	< 0.010		< 0.010		< 0.010		**0.029**		< 0.014		< 0.010	
3-and 4-Methylphenol	3,4-MEPH	mg/L		< 0.010	< 0.010		< 0.010		< 0.010		**0.052**		< 0.014		< 0.010	
Hexachlorobenzene	118-74-1	mg/L		< 0.010	< 0.010		< 0.010		< 0.010		**0.043**		< 0.014		< 0.010	
Hexachlorobutadiene	87-68-3	mg/L		< 0.010	< 0.010		< 0.010		< 0.010		**0.031**		< 0.014		< 0.010	
Hexachloroethane	67-72-1	mg/L		< 0.010	< 0.010		< 0.010		< 0.010		**0.029**		< 0.014		< 0.010	
Nitrobenzene	98-95-3	mg/L		< 0.010	< 0.010		< 0.010		< 0.010		**0.030**		< 0.014		< 0.010	
Pentachlorophenol	87-86-5	mg/L		< 0.025	< 0.025		< 0.025		< 0.025		**0.034**		< 0.035		< 0.025	
Pyridine	110-86-1	mg/L		< 0.010	< 0.010		< 0.010		< 0.010		**0.024**		< 0.014		< 0.010	
Metals																
Antimony	7440-36-0	mg/kg		**2.0**	< 4.1		**9.9**		< 5.6		< 3.3		< 3.5		< 3.8	
Arsenic	7440-38-2	mg/kg		**23.7**	**17.0**		**96.9**		**3.3**		**1.5**		**3.0**		**1.8**	
Beryllium	7440-41-7	mg/kg		< 0.32	**0.20**		< 0.28		**0.40**		**0.069**		**0.22**		**0.12**	
Boron	7440-42-8	mg/kg		**32.4**	**11.7**		**7.1**		**11.0**		**1.4**		**2.3**		**3.2**	
Cadmium	7440-43-9	mg/kg		**3.0**	**0.90**		**2.7**		**0.37**		**0.19**		**0.55**		**0.26**	
Chromium	7440-47-3	mg/kg		**39.3**	**17.4**		**49.3**		**13.6**		**4.5**		**14.2**		**8.0**	
Chromium, Hexavalent	18540-29-9	mg/kg		< 6.1	< 1.4		< 1.2		< 18.0		< 1.2		< 1.3		< 1.2	
Chromium, Trivalent	16065-83-1	mg/kg		**32.0**	**12.5**		**49.3**		**13.6**		**4.5**		**14.2**		**8.0**	
Cobalt	7440-48-4	mg/kg		**9.5**	**5.5**		**15.9**		**3.9**		**1.9**		**8.2**		**3.1**	
Copper	7440-50-8	mg/kg		**291**	**95.1**		**459**		**5.6**		**2.1**		**8.7**		**3.0**	

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-211 43619.44792 SB-211 (8)20190603 8 - 8 ft	SB-212 43608.625 SB-212 (2-5)20190523 2 - 5 ft	SB-212 43619.46875 SB-212 (5-10)20190603 5 - 10 ft	SB-212 43619.46875 SB-212 (8)20190603 8 - 8 ft	SB-212 43620.34722 SB-212 (10-15)_20190604 10 - 15 ft	SB-212 43620.34722 SB-212 (13)_20190604 13 - 13 ft	SB-212 43620.35417 SB-212 (15-20)_20190604 15 - 20 ft	SB-212 43620.35417 SB-212 (19)_20190604 19 - 19 ft	SB-212 43620.36111 SB-212 (20-25)_20190604 20 - 25 ft	SB-212 43620.36111 SB-212 (23)_20190604 23 - 23 ft	SB-212 43620.36806 SB-212 (25-30)_20190604 25 - 30 ft	SB-212 43620.36806 SB-212 (28)_20190604 28 - 28 ft	SB-212 43620.375 SB-212 (30-35)_20190604 30 - 35 ft	SB-212 43620.375 SB-212 (33)_20190604 33 - 33 ft
Metals (continued)																
Lead	7439-92-1	mg/kg		**308**	**304**		**424**		**7.2**		**1.7**		**3.1**		**1.8**	
Mercury	7439-97-6	mg/kg		**0.76**	**0.93**		**37.3**		**1.9**		**0.050**		< 0.041		< 0.048	
Nickel	7440-02-0	mg/kg		**38.5**	**18.1**		**47.8**		**10.1**		**3.5**		**13.3**		**5.4**	
Selenium	7782-49-2	mg/kg		**1.1**	**1.6**		**0.41**		< 0.94		< 0.55		< 0.58		< 0.64	
Silver	7440-22-4	mg/kg		**0.96**	< 0.69		**2.0**		< 0.94		< 0.55		< 0.58		< 0.64	
Thallium	7440-28-0	mg/kg		< 0.64	< 0.69		**1.3**		< 0.94		< 0.55		**0.23**		< 0.64	
Tin	7440-31-5	mg/kg		**15.1**	**7.9**		**77.9**		< 4.7		< 2.8		< 2.9		< 3.2	
Vanadium	7440-62-2	mg/kg		**51.5**	**19.8**		**27.2**		**20.4**		**4.9**		**22.0**		**7.5**	
Zinc	7440-66-6	mg/kg		**904**	**442**		**519**		**18.5**		**9.8**		**31.1**		**13.6**	
Metals-SPLP																
Arsenic	7440-38-2	mg/L		< 0.050	< 0.050		< 0.050		< 0.050		< 0.050		< 0.050		< 0.050	
Barium	7440-39-3	mg/L		**0.26**	**0.18**		**1.1**		**0.43**		< 1.0		< 1.0		**0.11**	
Cadmium	7440-43-9	mg/L		< 0.012	< 0.012		< 0.012		< 0.012		< 0.012		< 0.012		< 0.012	
Chromium	7440-47-3	mg/L		< 0.050	< 0.050		< 0.050		< 0.050		< 0.050		< 0.050		**0.037**	
Copper	7440-50-8	mg/L		< 0.12	< 0.12		< 0.12		< 0.12		**0.077**		< 0.12		< 0.12	
Lead	7439-92-1	mg/L		< 0.025	**0.057**		**0.025**		**0.057**		**0.021**		< 0.025		**0.016**	
Mercury	7439-97-6	mg/L		< 0.00080	< 0.00020		< 0.00020		< 0.00020		< 0.00020		< 0.00020		< 0.00020	
Nickel	7440-02-0	mg/L		**0.12**	**0.052**		**0.015**		**0.030**		< 0.20		**0.018**		< 0.20	
Selenium	7782-49-2	mg/L		< 0.050	< 0.050		< 0.050		< 0.050		< 0.050		< 0.050		< 0.050	
Silver	7440-22-4	mg/L		< 0.050	< 0.050		< 0.050		< 0.050		< 0.050		< 0.050		< 0.050	
Zinc	7440-66-6	mg/L		**1.8**	**0.90**		**0.35**		**0.33**		**0.30**		**0.14**		**0.13**	
Cyanide																
Total Cyanide	57-12-5	mg/kg		**0.31**	**0.61**		**3.5**		**0.29**		**0.16**		**0.17**		**0.17**	
Polychlorinated Biphenyls (PCBs)																
Aroclor 1016	12674-11-2	µg/kg		< 39.9	< 44.8		< 39.8		< 58.7		< 38.1		< 40.0		< 39.0	
Aroclor 1221	11104-28-2	µg/kg		< 81.0	< 90.9		< 80.9		< 119		< 77.4		< 81.3		< 79.2	
Aroclor 1232	11141-16-5	µg/kg		< 39.9	< 44.8		< 39.8		< 58.7		< 38.1		< 40.0		< 39.0	
Aroclor 1242	53469-21-9	µg/kg		< 39.9	**238**		**126**		**80.0**		< 38.1		< 40.0		< 39.0	
Aroclor 1248	12672-29-6	µg/kg		< 39.9	< 44.8		< 39.8		< 58.7		< 38.1		< 40.0		< 39.0	
Aroclor 1254	11097-69-1	µg/kg		**320**	**99.0**		**95.2**		< 58.7		< 38.1		< 40.0		< 39.0	
Aroclor 1260	11096-82-5	µg/kg		< 39.9	< 44.8		< 39.8		< 58.7		< 38.1		< 40.0		< 39.0	
Aroclor 1262	37324-23-5	µg/kg		< 39.9	< 44.8		< 39.8		< 58.7		< 38.1		< 40.0		< 39.0	
Aroclor 1268	11100-14-4	µg/kg		< 39.9	< 44.8		< 39.8		< 58.7		< 38.1		< 40.0		< 39.0	
PCB (Total) (ppm)	CALC-PCBs	µg/kg		**320**	**337**		**221**		**80.0**		< 77.4		< 81.3		< 79.2	
Pesticides-SPLP																
Chlordane	57-74-9	mg/L		< 0.0020	< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020	
Endrin	72-20-8	mg/L		< 0.00020	< 0.00020		< 0.00020		< 0.00020		< 0.00020		< 0.00020		**0.000023**	
Gamma BHC - Lindane	58-89-9	mg/L		< 0.00010	< 0.00010		< 0.00010		< 0.00010		< 0.00010		< 0.00010		**0.000017**	
Heptachlor	76-44-8	mg/L		< 0.00010	< 0.00010		< 0.00010		< 0.00010		< 0.00010		< 0.00010		< 0.00010	
Heptachlor Epoxide	1024-57-3	mg/L		< 0.00010	< 0.00010		< 0.00010		< 0.00010		< 0.00010		< 0.00010		**0.000034**	
Methoxychlor	72-43-5	mg/L		< 0.0010	< 0.0010		< 0.0010		< 0.0010		< 0.0010		< 0.0010		< 0.0010	
Toxaphene	8001-35-2	mg/L		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
Herbicides-SPLP																
2,4,5-TP (Silvex)	93-72-1	mg/L		< 0.0025	< 0.0025		**0.000063**		< 0.0025		**0.000069**		< 0.0025		**0.000043**	
2,4-D	94-75-7	mg/L		**0.00012**	**0.00011**		**0.00025**		**0.000069**		**0.00026**		< 0.0050		**0.00020**	
Other																
BTU	BTU	BTUs/lb.			**588**		**1240**		**365**		**4.10**		**410**		**31.4**	
Cresols (total)-TCLP	1319-77-3	mg/kg														
Cyanide (Reactivity)	57-12-5-R	mg/kg		< 123	< 100		< 99.3		< 99.8		< 99.6		< 99.7		< 99.5	
Ignitability	IGNITABILITY	mm/sec		**2.2**	**2.2**		< 2.2		< 2.2		< 2.2		< 2.2		< 2.2	
Moisture, percent	MOIST	%	**18.9**	**18.5**	**27.9**	**19.9**	**18.1**	**16.9**	**44.2**	**14.6**	**15.4**	**18.2**	**19.1**	**18.0**	**16.4**	**17.9**
Moisture, percent	MOIST	%														
pH	PH	S.U.		**10.6**	**9.4**		**9.7**		**10.5**		**8.0**		**8.2**		**8.1**	
Solids, Total	TSOLIDS	%			**78.0**		**85.2**		**83.0**		**84.9**		**80.0**		**81.4**	
Sulfide (Reactivity)	18496-25-8-R	mg/kg		< 99.9	< 100		< 99.3		< 99.8		< 99.6		< 99.7		< 99.5	
Sulfur	7704-34-9	% (w/w)		**0.710**	**1.97**		**1.47**		**0.325**		**0.155**		**0.221**		**0.168**	
Temperature	TEMP	deg c		**23.6**	**24.0**		**23.9**		**24.2**		**24.2**		**24.1**		**24.0**	
Total Organic Halides	TOX	mg/kg			< 31.6		< 29.3		< 30.1		< 29.4		< 31.3		< 30.7	

Notes:
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
BTU - British Thermal Unit
BTUs/lb. - BTUs per pounds
mm/sec - millimeters per second
S.U. - standard units
w/w - weight by weight
deg C - degrees Celsius

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-212 43620.38194 SB-212 (35-40)_20190604 35 - 40 ft	SB-212 43620.38194 SB-212 (37)_20190604 37 - 37 ft	SB-213 43619.4375 SB-213 (2-10)20190603 2 - 10 ft	SB-213 43619.4375 SB-213 (8)20190603 8 - 8 ft	SB-214 43619.42708 SB-214 (1-10)20190603 1 - 10 ft	SB-214 43619.42708 SB-214 (8)20190603 8 - 8 ft	SB-215 43621.60417 SB-215 (1-5)20190605 1 - 5 ft	SB-215 43621.60417 SB-215 (3)20190605 3 - 3 ft	SB-215 43629.35417 SB-215 (5-10)20190613 5 - 10 ft	SB-215 43629.35417 SB-215 (9)20190613 9 - 9 ft	SB-215 43629.36458 SB-215 (10-15)20190613 10 - 15 ft	SB-215 43629.36458 SB-215 (10-15)20190613 10 - 15 ft	SB-215 43629.36458 SB-215 (14)20190613 14 - 14 ft	SB-215 43629.375 SB-215 (15-20)20190613 15 - 20 ft	SB-215 43629.375 SB-215 (19)20190613 19 - 19 ft
Hydrocarbons																	
Diesel Range Organics C10-C28	DRO(C10-C28)	mg/kg	**6330**		**1800**		**274**		**1990**		**1270**		**7380**			**52700**	
Gasoline Range Organics C6-C10	DRO(C6-C10)	µg/kg		**229000**		**4680**		**344**		**2660**		**91000**			**465000**		**1640000**
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	71-55-6	µg/kg		< 573		< 144		**16.0**		< 2.1		< 177			< 1530		< 1460
1,1,2,2-Tetrachloroethane	79-34-5	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
1,1,2-Trichloroethane	79-00-5	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
1,1-Dichloroethane	75-34-3	µg/kg		< 573		< 144		**22.8**		< 2.1		< 177			< 1530		< 1460
1,1-Dichloroethene	75-35-4	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
1,2,3-Trichlorobenzene	87-61-6	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
1,2,4-Trichlorobenzene	120-82-1	µg/kg		< 573		< 144		**5.4**		< 2.1		< 177			< 1530		< 1460
1,2-Dibromo-3-chloropropane	96-12-8	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
1,2-Dibromoethane	106-93-4	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
1,2-Dichlorobenzene	95-50-1	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
1,2-Dichloroethane	107-06-2	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
1,2-Dichloropropane	78-87-5	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
1,3-Dichlorobenzene	541-73-1	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
1,4-Dioxane	123-91-1	µg/kg		< 14300		< 3600		< 56.6		< 52.1		< 4420			< 38400		< 36400
2-Butanone	78-93-3	µg/kg		< 573		**78.0**		**10.5**		< 2.1		< 177			< 1530		< 1460
2-Hexanone	591-78-6	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
4-Methyl-2-pentanone	108-10-1	µg/kg		< 573		**79.3**		**3.2**		**14.8**		< 177			< 1530		< 1460
Acetone	67-64-1	µg/kg		< 573		**138**		**20.0**		**37.6**		< 177			< 1530		< 1460
Benzene	71-43-2	µg/kg		**4830**		**82.4**		**4.7**		< 2.1		**20500**			**74700**		**285000**
Bromochloromethane	74-97-5	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
Bromodichloromethane	75-27-4	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
Bromoform	75-25-2	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
Bromomethane	74-83-9	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
Carbon disulfide	75-15-0	µg/kg		< 573		< 144		**8.0**		**5.1**		< 177			< 1530		< 1460
Carbon tetrachloride	56-23-5	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
Chlorobenzene	108-90-7	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
Chloroethane	75-00-3	µg/kg		< 573		< 144		**5.2**		< 2.1		< 177			< 1530		< 1460
Chloroform	67-66-3	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
Chloromethane	74-87-3	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
cis-1,2-Dichloroethene	156-59-2	µg/kg		< 573		< 144		**1.9**		< 2.1		< 177			< 1530		< 1460
cis-1,3-Dichloropropene	10061-01-5	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
Cyclohexane	110-82-7	µg/kg		< 573		**80.5**		**2.4**		< 2.1		< 177			< 1530		< 1460
Dibromochloromethane	124-48-1	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
Dichlorodifluoromethane	75-71-8	µg/kg		< 573		< 144		**4.7**		< 2.1		< 177			< 1530		< 1460
Ethylbenzene	100-41-4	µg/kg		**38700**		**379**		< 2.3		< 2.1		**6310**			**7150**		**8700**
Isopropylbenzene	98-82-8	µg/kg		**5870**		**123**		**8.9**		< 2.1		**745**			< 1530		< 1460
m+p-Xylene	1330-20-7-M,P	µg/kg		**35200**		**1340**		**4.9**		< 4.2		**3200**			**48000**		**228000**
Methyl acetate	79-20-9	µg/kg		< 573		**763**		< 2.3		< 2.1		< 177			< 1530		< 1460
Methyl tert-butyl ether	1634-04-4	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
Methylcyclohexane	108-87-2	µg/kg		< 573		**80.1**		**3.4**		**3.5**		**133**			< 1530		< 1460
Methylene chloride	75-09-2	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
o-Xylene	95-47-6	µg/kg		**18900**		**527**		**4.6**		< 2.1		**4340**			**21800**		**77700**
Styrene	100-42-5	µg/kg		**654**		**281**		< 2.3		< 2.1		**718**			**50700**		**63500**
Tetrachloroethene	127-18-4	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
Toluene	108-88-3	µg/kg		**3090**		**294**		< 2.3		< 2.1		**1750**			**84500**		**292000**
trans-1,2-Dichloroethene	156-60-5	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
trans-1,3-Dichloropropene	10061-02-6	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
Trichloroethene	79-01-6	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
Trichlorofluoromethane	75-69-4	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
Vinyl chloride	75-01-4	µg/kg		< 573		< 144		< 2.3		< 2.1		< 177			< 1530		< 1460
Xylenes (total)	1330-20-7	µg/kg		**54100**		**1860**		**9.5**		< 4.2		**7540**			**69800**		**305000**
VOCs-Synthetic Precipitation Leaching Procedure (SPLP)																	
1,1-Dichloroethene	75-35-4	mg/L	< 0.0020		< 0.0020		< 0.0020		< 0.010		< 0.010			< 0.010		< 0.010	
1,2-Dichloroethane	107-06-2	mg/L	< 0.0020		< 0.0020		< 0.0020		< 0.010		< 0.010			< 0.010		< 0.010	
2-Butanone	78-93-3	mg/L	**0.0022**		**0.0019**		**0.0019**		< 0.025		< 0.025			< 0.025		< 0.025	
Benzene	71-43-2	mg/L	**0.0016**		< 0.0020		**0.00077**		**0.0071**		**0.025**			**0.85**		**3.3**	
Carbon tetrachloride	56-23-5	mg/L	< 0.0020		< 0.0020		< 0.0020		< 0.010		< 0.010			< 0.010		< 0.010	
Chlorobenzene	108-90-7	mg/L	< 0.0020		< 0.0020		< 0.0020		< 0.010		< 0.010			< 0.010		< 0.010	
Chloroform	67-66-3	mg/L	< 0.0020		< 0.0020		< 0.0020		< 0.010		< 0.010			< 0.010		< 0.010	
Tetrachloroethene	127-18-4	mg/L	< 0.0020		< 0.0020		< 0.0020		< 0.010		< 0.010			< 0.010		< 0.010	
Trichloroethene	79-01-6	mg/L	< 0.0020		< 0.0020		< 0.0020		< 0.010		< 0.010			< 0.010		< 0.010	
Vinyl chloride	75-01-4	mg/L	< 0.0020		< 0.0020		< 0.0020		< 0.010		< 0.010			< 0.010		< 0.010	
Semivolatile Organic Compounds (SVOCs)																	
1,1'-Biphenyl	92-52-4	µg/kg	**37000**		< 793		< 776		< 3700		**6180**		**5590**			**205000**	
1,2,4,5-Tetrachlorobenzene	95-94-3	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
2,2'-oxybis(1-Chloropropane)	108-60-1	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
2,3,4,6-Tetrachlorophenol	58-90-2	µg/kg	< 1910		< 3900		< 3820		< 18200		< 4980		< 4430			< 4140	
2,4,5-Trichlorophenol	95-95-4	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
2,4,6-Trichlorophenol	88-06-2	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
2,4-Dichlorophenol	120-83-2	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
2,4-Dimethylphenol	105-67-9	µg/kg	< 387		< 793		< 776		< 3700		< 1010		**1200**			**101000**	
2,4-Dinitrophenol	51-28-5	µg/kg	< 3870		< 7930		< 7760		< 37000		< 10100		< 8990			< 8410	
2,4-Dinitrotoluene	121-14-2	µg/kg	< 1910		< 3900		< 3820		< 18200		< 4980		< 4430			< 4140	
2,6-Dinitrotoluene	606-20-2	µg/kg	< 1910		< 3900		< 3820		< 18200		< 4980		< 4430			< 4140	
2-Chloronaphthalene	91-58-7	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-212 43620.38194 SB-212 (35-40)_20190604 35 - 40 ft	SB-212 43620.38194 SB-212 (37)_20190604 37 - 37 ft	SB-213 43619.4375 SB-213 (2-10)20190603 2 - 10 ft	SB-213 43619.4375 SB-213 (8)20190603 8 - 8 ft	SB-214 43619.42708 SB-214 (1-10)20190603 1 - 10 ft	SB-214 43619.42708 SB-214 (8)20190603 8 - 8 ft	SB-215 43621.60417 SB-215 (1-5)20190605 1 - 5 ft	SB-215 43621.60417 SB-215 (3)20190605 3 - 3 ft	SB-215 43629.35417 SB-215 (5-10)20190613 5 - 10 ft	SB-215 43629.35417 SB-215 (9)20190613 9 - 9 ft	SB-215 43629.36458 SB-215 (10-15)20190613 10 - 15 ft	SB-215 43629.36458 SB-215 (10-15)20190613 10 - 15 ft	SB-215 43629.36458 SB-215 (14)20190613 14 - 14 ft	SB-215 43629.375 SB-215 (15-20)20190613 15 - 20 ft	SB-215 43629.375 SB-215 (19)20190613 19 - 19 ft
SVOCs (continued)																	
2-Chlorophenol	95-57-8	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
2-Methylnaphthalene	91-57-6	µg/kg	**447000**		**2310**		< 776		< 3700		**25400**		**47900**			**1220000**	
2-Methylphenol	95-48-7	µg/kg	< 387		< 793		< 776		< 3700		< 1010		**1640**			**140000**	
2-Nitroaniline	88-74-4	µg/kg	< 1910		< 3900		< 3820		< 18200		< 4980		< 4430			< 4140	
2-Nitrophenol	88-75-5	µg/kg	< 1910		< 3900		< 3820		< 18200		< 4980		< 4430			< 4140	
3,3'-Dichlorobenzidine	91-94-1	µg/kg	< 1910		< 3900		< 3820		< 18200		< 4980		< 4430			< 4140	
3-and 4-Methylphenol	3,4-MEPH	µg/kg	< 387		< 793		< 776		< 3700		**1880**		**4140**			**379000**	
3-Nitroaniline	99-09-2	µg/kg	< 1910		< 3900		< 3820		< 18200		< 4980		< 4430			< 4140	
4,6-Dinitro-2-methylphenol	534-52-1	µg/kg	< 3870		< 7930		< 7760		< 37000		< 10100		< 8990			< 8410	
4-Bromophenyl phenyl ether	101-55-3	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
4-Chloro-3-methylphenol	59-50-7	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
4-Chloroaniline	106-47-8	µg/kg	< 1910		< 3900		< 3820		< 18200		< 4980		< 4430			< 4140	
4-Chlorophenyl phenyl ether	7005-72-3	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
4-Nitroaniline	100-01-6	µg/kg	< 1910		< 3900		< 3820		< 18200		< 4980		< 4430			< 4140	
4-Nitrophenol	100-02-7	µg/kg	< 3870		< 7930		< 7760		< 37000		< 10100		< 8990			< 8410	
Acenaphthene	83-32-9	µg/kg	**73000**		**2300**		< 776		< 3700		**27800**		**4700**			**139000**	
Acenaphthylene	208-96-8	µg/kg	**96900**		< 793		< 776		< 3700		**13500**		**26000**			**578000**	
Acetophenone	98-86-2	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			**4500**	
Anthracene	120-12-7	µg/kg	**73500**		**5170**		**947**		< 3700		**31800**		**16900**			**790000**	
Atrazine	1912-24-9	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
Benzaldehyde	100-52-7	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			**7130**	
Benzo(a)anthracene	56-55-3	µg/kg	**49300**		**6370**		**2560**		< 3700		**28100**		**11900**			**615000**	
Benzo(a)pyrene	50-32-8	µg/kg	**34200**		**4670**		**2420**		< 3700		**20900**		**8700**			**410000**	
Benzo(b)fluoranthene	205-99-2	µg/kg	**26000**		**5340**		**3670**		< 3700		**23500**		**9510**			**491000**	
Benzo(ghi)perylene	191-24-2	µg/kg	**6840**		**2330**		**1810**		< 3700		**7980**		**3650**			**172000**	
Benzo(k)fluoranthene	207-08-9	µg/kg	**12300**		**2350**		**1560**		< 3700		**11600**		**3940**			**199000**	
bis(2-Chloroethoxy)methane	111-91-1	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
bis(2-Chloroethyl) ether	111-44-4	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			**3330**	
bis(2-Ethylhexyl) phthalate	117-81-7	µg/kg	< 387		**7860**		< 776		< 3700		< 1010		< 899			**5260**	
Butyl benzyl phthalate	85-68-7	µg/kg	< 387		**2160**		< 776		< 3700		< 1010		< 899			< 841	
Caprolactam	105-60-2	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
Carbazole	86-74-8	µg/kg	**2250**		**2140**		< 776		< 3700		**25700**		**9510**			**413000**	
Chrysene	218-01-9	µg/kg	**45100**		**6040**		**2790**		< 3700		**22900**		**10200**			**532000**	
Dibenz(a,h)anthracene	53-70-3	µg/kg	**2180**		< 793		< 776		< 3700		**2770**		**1280**			**38500**	
Dibenzofuran	132-64-9	µg/kg	**8070**		**1810**		< 776		< 3700		**27000**		**12700**			**713000**	
Diethyl phthalate	84-66-2	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
Dimethyl phthalate	131-11-3	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
Di-n-butyl phthalate	84-74-2	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
Di-n-octyl phthalate	117-84-0	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
Fluoranthene	206-44-0	µg/kg	**82200**		**14200**		**5050**		**2310**		**74900**		**30000**			**1570000**	
Fluorene	86-73-7	µg/kg	**115000**		**3470**		< 776		< 3700		**41300**		**20700**			**1120000**	
Hexachlorobenzene	118-74-1	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
Hexachlorobutadiene	87-68-3	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
Hexachlorocyclopentadiene	77-47-4	µg/kg	< 1910		< 3900		< 3820		< 18200		< 4980		< 4430			< 4140	
Hexachloroethane	67-72-1	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	**7080**		**2500**		**1870**		< 3700		**9560**		**4080**			**190000**	
Isophorone	78-59-1	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
Naphthalene	91-20-3	µg/kg	**900000**		**12900**		< 776		**6710**		**159000**		**573000**			**5960000**	
Nitrobenzene	98-95-3	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			**5390**	
N-Nitroso-di-n-propylamine	621-64-7	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
N-Nitrosodiphenylamine	86-30-6	µg/kg	< 387		< 793		< 776		< 3700		< 1010		< 899			< 841	
Pentachlorophenol	87-86-5	µg/kg	< 3870		< 7930		< 7760		< 37000		< 10100		< 8990			< 8410	
Phenanthrene	85-01-8	µg/kg	**279000**		**19300**		**2750**		< 3700		**154000**		**51400**			**2690000**	
Phenol	108-95-2	µg/kg	< 387		< 793		< 776		< 3700		**1500**		**5530**			**323000**	
Pyrene	129-00-0	µg/kg	**138000**		**12900**		**4580**		**1940**		**52000**		**21800**			**1140000**	
SVOCs-SPLP																	
1,4-Dichlorobenzene	106-46-7	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.5			< 0.5		< 0.5	
2,4,5-Trichlorophenol	95-95-4	mg/L	< 0.025		< 0.025		< 0.025		< 0.025		< 5			< 5		< 5	
2,4,6-Trichlorophenol	88-06-2	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.1			< 0.1		< 0.1	
2,4-Dinitrotoluene	121-14-2	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.1			< 0.1		< 0.1	
2-Methylphenol	95-48-7	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 2			**0.115**		**10.7**	
3-and 4-Methylphenol	3,4-MEPH	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 2			**0.305**		**30.8**	
Hexachlorobenzene	118-74-1	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.1			< 0.1		< 0.1	
Hexachlorobutadiene	87-68-3	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.1			< 0.1		< 0.1	
Hexachloroethane	67-72-1	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.2			< 0.2		**0.765**	
Nitrobenzene	98-95-3	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.1			< 0.1		< 0.1	
Pentachlorophenol	87-86-5	mg/L	< 0.025		< 0.025		< 0.025		< 0.025		< 5			< 5		< 5	
Pyridine	110-86-1	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.25			**0.0562**		**0.468**	
Metals																	
Antimony	7440-36-0	mg/kg	< 3.5		< 3.8		< 3.8		< 3.1		**3.7**		**4.1**			**1.7**	
Arsenic	7440-38-2	mg/kg	**1.9**		**15.0**		**42.2**		**11.3**		**36.6**		**54.2**			**14.5**	
Beryllium	7440-41-7	mg/kg	**0.14**		**0.15**		< 0.32		**0.0079**		**0.13**		**0.15**			**0.091**	
Boron	7440-42-8	mg/kg	**2.6**		**22.2**		**7.9**		**6.1**		**8.7**		**13.6**			**4.1**	
Cadmium	7440-43-9	mg/kg	**0.34**		**6.3**		**1.5**		**0.53**		< 0.19		**4.1**			**0.53**	
Chromium	7440-47-3	mg/kg	**6.2**		**104**		**20.3**		**17.8**		**19.8**		**18.8**			**16.9**	
Chromium, Hexavalent	18540-29-9	mg/kg	< 1.1		< 1.2		< 1.2		< 1.2		< 1.5		< 1.4			< 6.3	
Chromium, Trivalent	16065-83-1	mg/kg	**6.2**		**85.5**		**17.1**		**15.7**		**19.8**		**18.8**			**16.9**	
Cobalt	7440-48-4	mg/kg	**3.3**		**10.1**		**9.3**		**5.6**		**9.5**		**6.6**			**5.3**	
Copper	7440-50-8	mg/kg	**4.4**		**91.3**		**119**		**65.4**		**162**		**131**			**119**	

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-212 43620.38194 SB-212 (35-40)_20190604 35 - 40 ft	SB-212 43620.38194 SB-212 (37)_20190604 37 - 37 ft	SB-213 43619.4375 SB-213 (2-10)20190603 2 - 10 ft	SB-213 43619.4375 SB-213 (8)20190603 8 - 8 ft	SB-214 43619.42708 SB-214 (1-10)20190603 1 - 10 ft	SB-214 43619.42708 SB-214 (8)20190603 8 - 8 ft	SB-215 43621.60417 SB-215 (1-5)20190605 1 - 5 ft	SB-215 43621.60417 SB-215 (3)20190605 3 - 3 ft	SB-215 43629.35417 SB-215 (5-10)20190613 5 - 10 ft	SB-215 43629.35417 SB-215 (9)20190613 9 - 9 ft	SB-215 43629.36458 SB-215 (10-15)20190613 10 - 15 ft	SB-215 43629.36458 SB-215 (10-15)20190613 10 - 15 ft	SB-215 43629.36458 SB-215 (14)20190613 14 - 14 ft	SB-215 43629.375 SB-215 (15-20)20190613 15 - 20 ft	SB-215 43629.375 SB-215 (19)20190613 19 - 19 ft
Metals (continued)																	
Lead	7439-92-1	mg/kg	**2.1**		**724**		**168**		**86.5**		**69.9**		**446**			**390**	
Mercury	7439-97-6	mg/kg	< 0.039		**1.5**		**0.33**		**0.20**		**0.10**		**3.0**			**1.4**	
Nickel	7440-02-0	mg/kg	**6.3**		**32.3**		**20.0**		**13.0**		**35.8**		**21.4**			**14.2**	
Selenium	7782-49-2	mg/kg	< 0.58		**0.59**		**0.84**		**1.3**		**5.1**		**6.3**			**2.8**	
Silver	7440-22-4	mg/kg	< 0.58		**2.0**		< 0.63		< 0.51		< 0.74		< 0.74			**0.10**	
Thallium	7440-28-0	mg/kg	**0.16**		< 0.63		< 0.63		< 0.51		**0.60**		**0.43**			**0.82**	
Tin	7440-31-5	mg/kg	< 2.9		**11.1**		**8.6**		**5.2**		**10.6**		**23.2**			**20.0**	
Vanadium	7440-62-2	mg/kg	**11.2**		**21.0**		**48.8**		**25.8**		**12.7**		**19.9**			**17.3**	
Zinc	7440-66-6	mg/kg	**16.1**		**588**		**175**		**94.2**		**64.6**		**1170**			**415**	
Metals-SPLP																	
Arsenic	7440-38-2	mg/L	< 0.050		< 0.050		< 0.050		< 0.050		< 0.050			< 0.050		< 0.050	
Barium	7440-39-3	mg/L	< 1.0		**0.63**		**0.19**		**0.29**		**0.52**			**0.46**		**0.66**	
Cadmium	7440-43-9	mg/L	< 0.012		< 0.012		**0.0055**		**0.0068**		< 0.012			< 0.012		< 0.012	
Chromium	7440-47-3	mg/L	< 0.050		< 0.050		< 0.050		< 0.050		< 0.050			< 0.050		< 0.050	
Copper	7440-50-8	mg/L	**0.15**		< 0.12		**0.040**		**0.034**		< 0.12			< 0.12		< 0.12	
Lead	7439-92-1	mg/L	< 0.025		**0.022**		**0.027**		**0.16**		**0.024**			**0.023**		**0.43**	
Mercury	7439-97-6	mg/L	< 0.00020		< 0.00020		< 0.00020		**0.00041**		**0.0017**			< 0.00020		< 0.00020	
Nickel	7440-02-0	mg/L	**0.032**		**0.071**		**0.047**		**0.034**		**0.25**			**0.12**		**0.058**	
Selenium	7782-49-2	mg/L	< 0.050		< 0.050		< 0.050		< 0.050		< 0.050			< 0.050		< 0.050	
Silver	7440-22-4	mg/L	< 0.050		< 0.050		< 0.050		< 0.050		< 0.050			< 0.050		< 0.050	
Zinc	7440-66-6	mg/L	**0.16**		**0.55**		**0.55**		**1.7**		**0.58**			**3.0**		**1.7**	
Cyanide																	
Total Cyanide	57-12-5	mg/kg	**0.13**		**0.37**		**0.20**		**0.25**		**2.4**		**2.0**			**3.9**	
Polychlorinated Biphenyls (PCBs)																	
Aroclor 1016	12674-11-2	µg/kg	< 37.5		< 38.9		< 39.0		< 37.2		< 48.3		< 42.9			< 40.1	
Aroclor 1221	11104-28-2	µg/kg	< 76.2		< 78.9		< 79.1		< 75.6		< 98.2		< 87.1			< 81.4	
Aroclor 1232	11141-16-5	µg/kg	< 37.5		< 38.9		< 39.0		< 37.2		< 48.3		< 42.9			< 40.1	
Aroclor 1242	53469-21-9	µg/kg	< 37.5		**51.3**		< 39.0		**64.9**		< 48.3		< 42.9			< 40.1	
Aroclor 1248	12672-29-6	µg/kg	< 37.5		< 38.9		< 39.0		< 37.2		< 48.3		< 42.9			< 40.1	
Aroclor 1254	11097-69-1	µg/kg	< 37.5		**103**		**222**		< 37.2		< 48.3		< 42.9			< 40.1	
Aroclor 1260	11096-82-5	µg/kg	< 37.5		**99.5**		< 39.0		< 37.2		< 48.3		< 42.9			< 40.1	
Aroclor 1262	37324-23-5	µg/kg	< 37.5		< 38.9		< 39.0		< 37.2		< 48.3		< 42.9			< 40.1	
Aroclor 1268	11100-14-4	µg/kg	< 37.5		< 38.9		< 39.0		< 37.2		< 48.3		< 42.9			< 40.1	
PCB (Total) (ppm)	CALC-PCBs	µg/kg	< 76.2		**254**		**222**		**64.9**		< 98.2		< 87.1			< 81.4	
Pesticides-SPLP																	
Chlordane	57-74-9	mg/L	< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.001			< 0.001		< 0.001	
Endrin	72-20-8	mg/L	**0.000037**		< 0.00020		< 0.00020		< 0.00020		**0.00001**			**0.000013**		**0.00017**	
Gamma BHC - Lindane	58-89-9	mg/L	< 0.00010		< 0.00010		< 0.00010		< 0.00010		**0.0000045**			**0.00002**		**0.00027**	
Heptachlor	76-44-8	mg/L	< 0.00010		< 0.00010		< 0.00010		< 0.00010		**0.000022**			**0.000036**		**0.000041**	
Heptachlor Epoxide	1024-57-3	mg/L	< 0.00010		< 0.00010		< 0.00010		< 0.00010		**0.00012**			**0.000013**		**0.00005**	
Methoxychlor	72-43-5	mg/L	< 0.0010		< 0.0010		< 0.0010		< 0.0010		< 0.001			**0.000093**		< 0.001	
Toxaphene	8001-35-2	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.002			< 0.002		< 0.002	
Herbicides-SPLP																	
2,4,5-TP (Silvex)	93-72-1	mg/L	< 0.0025		< 0.0025		**0.000012**		**0.0000045**		**0.000036**			**0.0011**		**0.00026**	
2,4-D	94-75-7	mg/L	**0.000064**		**0.000048**		**0.000094**		< 0.0050		< 0.0050			< 0.0050		**0.0012**	
Other																	
BTU	BTU	BTUs/lb.	**282**		**292**		**357**				**14800**		**9800**			**13100**	
Cresols (total)-TCLP	1319-77-3	mg/kg															
Cyanide (Reactivity)	57-12-5-R	mg/kg	< 99.6		< 99.7		< 99.9		< 99.9		< 150		< 134			< 125	
Ignitability	IGNITABILITY	mm/sec	< 2.2		**2.2**		**2.2**		**2.2**		**2.2**		**2.2**			**2.2**	
Moisture, percent	MOIST	%	**13.6**	**11.9**	**17.7**	**14.6**	**16.0**	**25.7**	**11.4**	**10.4**	**33.7**	**28.1**	**25.4**		**22.5**	**20.4**	**19.4**
Moisture, percent	MOIST	%									**34.1**			**13.8**		**18.2**	
pH	PH	S.U.	**8.1**		**11.0**		**10.9**		**7.7**		**7.1**		**9.8**			**9.7**	
Solids, Total	TSOLIDS	%	**82.5**		**85.3**		**80.4**				**71.5**		**79.3**			**83.2**	
Sulfide (Reactivity)	18496-25-8-R	mg/kg	< 99.6		< 99.7		< 99.9		< 99.9		< 99.4		< 99.9			< 99.6	
Sulfur	7704-34-9	% (w/w)	**0.392**		**0.765**		**0.809**		**0.303**		**0.481**		**0.498**			**0.224**	
Temperature	TEMP	deg c	**24.0**		**24.0**		**23.9**		**24.0**		**23.7**		**23.7**			**23.7**	
Total Organic Halides	TOX	mg/kg	< 30.3		< 29.0		< 30.9				**18.6**		< 31.5			< 30.1	

Notes:
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
BTU - British Thermal Unit
BTUs/lb. - BTUs per pounds
mm/sec - millimeters per second
S.U. - standard units
w/w - weight by weight
deg C - degrees Celsius

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-215 43629.38542 SB-215 (20-26)20190613 20 - 26 ft	SB-215 43629.38542 SB-215 (24)20190613 24 - 24 ft	SB-216 43621.60417 SB-216 (1-5)20190605 1 - 5 ft	SB-216 43621.60417 SB-216 (3)20190605 3 - 3 ft	SB-216 43623.36458 SB-216 (5-10)20190607 5 - 10 ft	SB-216 43623.36458 SB-216 (8)20190607 8 - 8 ft	SB-216 43623.42708 SB-216 (20-26)20190607 20 - 26 ft	SB-216 43623.42708 SB-216 (23)20190607 23 - 23 ft	SB-217 43621.33333 SB-217 (1-5)20190605 1 - 5 ft	SB-217 43621.33333 SB-217 (3)20190605 3 - 3 ft	SB-217 43622.4375 SB-217 (5-10)20190606 5 - 10 ft	SB-217 43622.4375 SB-217 (8)20190606 8 - 8 ft	SB-217 43622.46875 SB-217 (20-26)20190606 20 - 26 ft	SB-217 43622.46875 SB-217 (23)20190606 23 - 23 ft	SB-218 43621.375 SB-218 (1-5)20190605 1 - 5 ft
Hydrocarbons																	
Diesel Range Organics C10-C28	DRO(C10-C28)	mg/kg	**8980**		**1240**		**48900**		**74300**		**585**		**49500**		**66900**		**1870**
Gasoline Range Organics C6-C10	DRO(C6-C10)	µg/kg		**2710000**		**339**		**859000**		**605000**		**1240000**		**4050**		**8870000**	
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	71-55-6	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
1,1,2,2-Tetrachloroethane	79-34-5	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
1,1,2-Trichloroethane	79-00-5	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
1,1-Dichloroethane	75-34-3	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
1,1-Dichloroethene	75-35-4	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
1,2,3-Trichlorobenzene	87-61-6	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
1,2,4-Trichlorobenzene	120-82-1	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
1,2-Dibromo-3-chloropropane	96-12-8	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
1,2-Dibromoethane	106-93-4	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
1,2-Dichlorobenzene	95-50-1	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
1,2-Dichloroethane	107-06-2	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
1,2-Dichloropropane	78-87-5	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
1,3-Dichlorobenzene	541-73-1	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
1,4-Dioxane	123-91-1	µg/kg		< 44100		< 3280		< 55100		< 35700		< 96600		< 49.2		< 123000	
2-Butanone	78-93-3	µg/kg		< 1760		**71.8**		< 2200		< 1430		< 3860		**15.9**		< 4940	
2-Hexanone	591-78-6	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
4-Methyl-2-pentanone	108-10-1	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		**3840**	
Acetone	67-64-1	µg/kg		< 1760		**106**		< 2200		< 1430		< 3860		**142**		< 4940	
Benzene	71-43-2	µg/kg		**216000**		**39.6**		**113000**		**102000**		**124000**		**2.4**		**897000**	
Bromochloromethane	74-97-5	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Bromodichloromethane	75-27-4	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Bromoform	75-25-2	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Bromomethane	74-83-9	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Carbon disulfide	75-15-0	µg/kg		< 1760		< 131		< 2200		< 1430		**11200**		**7.1**		< 4940	
Carbon tetrachloride	56-23-5	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Chlorobenzene	108-90-7	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Chloroethane	75-00-3	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Chloroform	67-66-3	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Chloromethane	74-87-3	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
cis-1,2-Dichloroethene	156-59-2	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
cis-1,3-Dichloropropene	10061-01-5	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Cyclohexane	110-82-7	µg/kg		< 1760		< 131		**1360**		< 1430		< 3860		< 2.0		< 4940	
Dibromochloromethane	124-48-1	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Dichlorodifluoromethane	75-71-8	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Ethylbenzene	100-41-4	µg/kg		**83300**		< 131		**53200**		**7830**		**171000**		< 2.0		**134000**	
Isopropylbenzene	98-82-8	µg/kg		**2400**		< 131		**4900**		< 1430		**26200**		< 2.0		**3880**	
m+p-Xylene	1330-20-7-M,P	µg/kg		**278000**		< 263		**187000**		**63900**		**356000**		< 3.9		**802000**	
Methyl acetate	79-20-9	µg/kg		< 1760		**1930**		**2210**		< 1430		< 3860		< 2.0		< 4940	
Methyl tert-butyl ether	1634-04-4	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Methylcyclohexane	108-87-2	µg/kg		< 1760		< 131		**1500**		< 1430		< 3860		< 2.0		< 4940	
Methylene chloride	75-09-2	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
o-Xylene	95-47-6	µg/kg		**129000**		< 131		**63100**		**28600**		**155000**		< 2.0		**348000**	
Styrene	100-42-5	µg/kg		**305000**		< 131		**16700**		**72500**		< 3860		< 2.0		**953000**	
Tetrachloroethene	127-18-4	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Toluene	108-88-3	µg/kg		**378000**		< 131		**85300**		**94500**		**51800**		< 2.0		**1220000**	
trans-1,2-Dichloroethene	156-60-5	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
trans-1,3-Dichloropropene	10061-02-6	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Trichloroethene	79-01-6	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Trichlorofluoromethane	75-69-4	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Vinyl chloride	75-01-4	µg/kg		< 1760		< 131		< 2200		< 1430		< 3860		< 2.0		< 4940	
Xylenes (total)	1330-20-7	µg/kg		**406000**		< 263		**251000**		**92500**		**510000**		< 3.9		**1150000**	
VOCs-Synthetic Precipitation Leaching Procedure (SPLP)																	
1,1-Dichloroethene	75-35-4	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010
1,2-Dichloroethane	107-06-2	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010
2-Butanone	78-93-3	mg/L	< 0.025		< 0.025		< 0.025		< 0.025		< 0.025		**0.0054**		< 0.025		< 0.025
Benzene	71-43-2	mg/L	**0.95**		< 0.010		**4.7**		**7.8**		< 0.010		**0.24**		**12.3**		< 0.010
Carbon tetrachloride	56-23-5	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010
Chlorobenzene	108-90-7	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010
Chloroform	67-66-3	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010
Tetrachloroethene	127-18-4	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010
Trichloroethene	79-01-6	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010
Vinyl chloride	75-01-4	mg/L	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010
Semivolatile Organic Compounds (SVOCs)																	
1,1'-Biphenyl	92-52-4	µg/kg	**22800**		**705**		**33800**		**214000**		< 742		**134000**		**223000**		**420**
1,2,4,5-Tetrachlorobenzene	95-94-3	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
2,2'-oxybis(1-Chloropropane)	108-60-1	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
2,3,4,6-Tetrachlorophenol	58-90-2	µg/kg	< 4090		< 3630		< 21200		< 42700		< 3650		< 20400		< 23300		< 4020
2,4,5-Trichlorophenol	95-95-4	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
2,4,6-Trichlorophenol	88-06-2	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
2,4-Dichlorophenol	120-83-2	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
2,4-Dimethylphenol	105-67-9	µg/kg	< 831		< 738		< 4300		**68400**		< 742		< 4150		**25800**		< 816
2,4-Dinitrophenol	51-28-5	µg/kg	< 8310		< 7380		< 43000		< 86700		< 7420		< 41500		< 47300		< 8160
2,4-Dinitrotoluene	121-14-2	µg/kg	< 4090		< 3630		**6440**		< 42700		< 3650		< 20400		< 23300		< 4020
2,6-Dinitrotoluene	606-20-2	µg/kg	< 4090		< 3630		< 21200		< 42700		< 3650		< 20400		< 23300		< 4020
2-Chloronaphthalene	91-58-7	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-215 43629.38542 SB-215 (20-26)20190613 20 - 26 ft	SB-215 43629.38542 SB-215 (24)20190613 24 - 24 ft	SB-216 43621.60417 SB-216 (1-5)20190605 1 - 5 ft	SB-216 43621.60417 SB-216 (3)20190605 3 - 3 ft	SB-216 43623.36458 SB-216 (5-10)20190607 5 - 10 ft	SB-216 43623.36458 SB-216 (8)20190607 8 - 8 ft	SB-216 43623.42708 SB-216 (20-26)20190607 20 - 26 ft	SB-216 43623.42708 SB-216 (23)20190607 23 - 23 ft	SB-217 43621.33333 SB-217 (1-5)20190605 1 - 5 ft	SB-217 43621.33333 SB-217 (3)20190605 3 - 3 ft	SB-217 43622.4375 SB-217 (5-10)20190606 5 - 10 ft	SB-217 43622.4375 SB-217 (8)20190606 8 - 8 ft	SB-217 43622.46875 SB-217 (20-26)20190606 20 - 26 ft	SB-217 43622.46875 SB-217 (23)20190606 23 - 23 ft	SB-218 43621.375 SB-218 (1-5)20190605 1 - 5 ft
SVOCs (continued)																	
2-Chlorophenol	95-57-8	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
2-Methylnaphthalene	91-57-6	µg/kg	**395000**		**1310**		**349000**		**1020000**		< 742		**767000**		**3210000**		**3790**
2-Methylphenol	95-48-7	µg/kg	**1160**		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
2-Nitroaniline	88-74-4	µg/kg	< 4090		< 3630		< 21200		< 42700		< 3650		< 20400		< 23300		< 4020
2-Nitrophenol	88-75-5	µg/kg	< 4090		< 3630		< 21200		< 42700		< 3650		< 20400		< 23300		< 4020
3,3'-Dichlorobenzidine	91-94-1	µg/kg	< 4090		< 3630		< 21200		< 42700		< 3650		< 20400		< 23300		< 4020
3-and 4-Methylphenol	3,4-MEPH	µg/kg	**1720**		< 738		**1910**		**188000**		< 742		< 4150		**53900**		< 816
3-Nitroaniline	99-09-2	µg/kg	< 4090		< 3630		< 21200		< 42700		< 3650		< 20400		< 23300		< 4020
4,6-Dinitro-2-methylphenol	534-52-1	µg/kg	< 8310		< 7380		< 43000		< 86700		< 7420		< 41500		< 47300		< 8160
4-Bromophenyl phenyl ether	101-55-3	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
4-Chloro-3-methylphenol	59-50-7	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
4-Chloroaniline	106-47-8	µg/kg	< 4090		< 3630		< 21200		< 42700		< 3650		< 20400		< 23300		< 4020
4-Chlorophenyl phenyl ether	7005-72-3	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
4-Nitroaniline	100-01-6	µg/kg	< 4090		< 3630		< 21200		< 42700		< 3650		< 20400		< 23300		< 4020
4-Nitrophenol	100-02-7	µg/kg	< 8310		< 7380		< 43000		< 86700		< 7420		< 41500		< 47300		< 8160
Acenaphthene	83-32-9	µg/kg	**12400**		**8590**		**79700**		**82400**		< 742		**692000**		**94800**		**766**
Acenaphthylene	208-96-8	µg/kg	**98900**		**372**		**55500**		**617000**		< 742		**82300**		**1280000**		**1010**
Acetophenone	98-86-2	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
Anthracene	120-12-7	µg/kg	**39700**		**15800**		**89000**		**683000**		**897**		**473000**		**543000**		**2010**
Atrazine	1912-24-9	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
Benzaldehyde	100-52-7	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
Benzo(a)anthracene	56-55-3	µg/kg	**23600**		**17300**		**86200**		**517000**		**1730**		**298000**		**285000**		**4510**
Benzo(a)pyrene	50-32-8	µg/kg	**16900**		**12100**		**64000**		**362000**		**1700**		**224000**		**209000**		**3190**
Benzo(b)fluoranthene	205-99-2	µg/kg	**13500**		**16500**		**73800**		**428000**		**3410**		**307000**		**203000**		**4440**
Benzo(ghi)perylene	191-24-2	µg/kg	**5990**		**5470**		**31600**		**103000**		**1260**		**65900**		**62400**		**1630**
Benzo(k)fluoranthene	207-08-9	µg/kg	**5870**		**8480**		**35700**		**188000**		**1350**		**131000**		**109000**		**2030**
bis(2-Chloroethoxy)methane	111-91-1	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
bis(2-Chloroethyl) ether	111-44-4	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
bis(2-Ethylhexyl) phthalate	117-81-7	µg/kg	< 831		**3140**		< 4300		< 8670		< 742		< 4150		< 4730		**10600**
Butyl benzyl phthalate	85-68-7	µg/kg	< 831		**3210**		< 4300		< 8670		**1840**		< 4150		< 4730		**4980**
Caprolactam	105-60-2	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
Carbazole	86-74-8	µg/kg	**4000**		**7120**		**50900**		**285000**		< 742		**192000**		**95500**		**1180**
Chrysene	218-01-9	µg/kg	**20600**		**17200**		**74700**		**456000**		**2610**		**255000**		**240000**		**4080**
Dibenz(a,h)anthracene	53-70-3	µg/kg	**1860**		**1480**		**9120**		**35100**		< 742		**24300**		**20300**		**410**
Dibenzofuran	132-64-9	µg/kg	**9890**		**7860**		**72400**		**452000**		< 742		**432000**		**190000**		**812**
Diethyl phthalate	84-66-2	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
Dimethyl phthalate	131-11-3	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
Di-n-butyl phthalate	84-74-2	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
Di-n-octyl phthalate	117-84-0	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
Fluoranthene	206-44-0	µg/kg	**47300**		**37800**		**199000**		**640000**		**4320**		**964000**		**814000**		**10200**
Fluorene	86-73-7	µg/kg	**62200**		**12800**		**100000**		**461000**		< 742		**564000**		**825000**		**1620**
Hexachlorobenzene	118-74-1	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
Hexachlorobutadiene	87-68-3	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
Hexachlorocyclopentadiene	77-47-4	µg/kg	< 4090		< 3630		< 21200		< 42700		< 3650		< 20400		< 23300		< 4020
Hexachloroethane	67-72-1	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	**6150**		**5750**		**35200**		**123000**		**1310**		**78900**		**67300**		**1620**
Isophorone	78-59-1	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
Naphthalene	91-20-3	µg/kg	**990000**		**2750**		**31800000**		**7650000**		**963**		**6200000**		**10100000**		**8730**
Nitrobenzene	98-95-3	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
N-Nitroso-di-n-propylamine	621-64-7	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
N-Nitrosodiphenylamine	86-30-6	µg/kg	< 831		< 738		< 4300		< 8670		< 742		< 4150		< 4730		< 816
Pentachlorophenol	87-86-5	µg/kg	< 8310		< 7380		< 43000		< 86700		< 7420		< 41500		< 47300		< 8160
Phenanthrene	85-01-8	µg/kg	**174000**		**49600**		**270000**		**1220000**		**2900**		**1530000**		**2150000**		**10700**
Phenol	108-95-2	µg/kg	**1630**		< 738		< 4300		**190000**		< 742		**6900**		**62300**		< 816
Pyrene	129-00-0	µg/kg	**58700**		**31300**		**137000**		**493000**		**4200**		**631000**		**902000**		**8580**
SVOCs-SPLP																	
1,4-Dichlorobenzene	106-46-7	mg/L	< 0.5		< 0.010		< 0.050		< 0.064		< 0.010		< 0.010		< 0.050		< 0.010
2,4,5-Trichlorophenol	95-95-4	mg/L	< 5		< 0.025		< 0.12		< 0.16		< 0.025		< 0.025		< 0.12		< 0.025
2,4,6-Trichlorophenol	88-06-2	mg/L	< 0.1		< 0.010		< 0.050		< 0.064		< 0.010		< 0.010		< 0.050		< 0.010
2,4-Dinitrotoluene	121-14-2	mg/L	< 0.1		< 0.010		< 0.050		< 0.064		< 0.010		< 0.010		< 0.050		< 0.010
2-Methylphenol	95-48-7	mg/L	**0.0984**		< 0.010		**0.046**		< 3.2		< 0.010		**0.020**		**2.0**		< 0.010
3-and 4-Methylphenol	3,4-MEPH	mg/L	**0.188**		< 0.010		**0.064**		**2.4**		< 0.010		**0.048**		**4.6**		< 0.010
Hexachlorobenzene	118-74-1	mg/L	< 0.1		< 0.010		< 0.050		< 0.064		< 0.010		< 0.010		< 0.050		< 0.010
Hexachlorobutadiene	87-68-3	mg/L	< 0.1		< 0.010		< 0.050		< 0.064		< 0.010		< 0.010		< 0.050		< 0.010
Hexachloroethane	67-72-1	mg/L	< 0.2		< 0.010		< 0.050		< 0.064		< 0.010		< 0.010		< 0.050		< 0.010
Nitrobenzene	98-95-3	mg/L	< 0.1		< 0.010		< 0.050		< 0.064		< 0.010		< 0.010		< 0.050		< 0.010
Pentachlorophenol	87-86-5	mg/L	< 5		< 0.025		< 0.12		< 0.16		< 0.025		< 0.025		< 0.12		< 0.025
Pyridine	110-86-1	mg/L	**0.0196**		< 0.010		< 0.050		**0.18**		< 0.010		< 0.010		**0.31**		< 0.010
Metals																	
Antimony	7440-36-0	mg/kg	< 3.9		**1.4**		**10.3**		**4.0**		< 3.4		**3.3**		**14.8**		< 3.7
Arsenic	7440-38-2	mg/kg	**8.7**		**98.3**		**12.0**		**11.6**		**73.4**		**19.6**		**26.3**		**4.8**
Beryllium	7440-41-7	mg/kg	**0.29**		**0.24**		**0.015**		**0.091**		**0.24**		**0.45**		**0.24**		**0.19**
Boron	7440-42-8	mg/kg	**8.7**		**15.6**		**16.7**		**6.3**		**11.0**		**30.4**		**6.7**		**10.0**
Cadmium	7440-43-9	mg/kg	**0.16**		**4.6**		**0.67**		**0.61**		**1.6**		**4.9**		**3.3**		**1.3**
Chromium	7440-47-3	mg/kg	**13.3**		**59.4**		**22.2**		**21.0**		**29.8**		**27.0**		**27.7**		**19.8**
Chromium, Hexavalent	18540-29-9	mg/kg	< 1.2		< 1.1		< 1.3		< 1.4		< 1.1		< 1.3		< 1.5		< 1.2
Chromium, Trivalent	16065-83-1	mg/kg	**13.3**		**59.4**		**17.0**		**15.7**		**29.8**		**27.0**		**19.3**		**19.8**
Cobalt	7440-48-4	mg/kg	**5.5**		**13.1**		**4.5**		**5.1**		**7.9**		**20.0**		**7.0**		**3.8**
Copper	7440-50-8	mg/kg	**287**		**282**		**231**		**138**		**131**		**586**		**294**		**36.9**

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-215 43629.38542 SB-215 (20-26)20190613 20 - 26 ft	SB-215 43629.38542 SB-215 (24)20190613 24 - 24 ft	SB-216 43621.60417 SB-216 (1-5)20190605 1 - 5 ft	SB-216 43621.60417 SB-216 (3)20190605 3 - 3 ft	SB-216 43623.36458 SB-216 (5-10)20190607 5 - 10 ft	SB-216 43623.36458 SB-216 (8)20190607 8 - 8 ft	SB-216 43623.42708 SB-216 (20-26)20190607 20 - 26 ft	SB-216 43623.42708 SB-216 (23)20190607 23 - 23 ft	SB-217 43621.33333 SB-217 (1-5)20190605 1 - 5 ft	SB-217 43621.33333 SB-217 (3)20190605 3 - 3 ft	SB-217 43622.4375 SB-217 (5-10)20190606 5 - 10 ft	SB-217 43622.4375 SB-217 (8)20190606 8 - 8 ft	SB-217 43622.46875 SB-217 (20-26)20190606 20 - 26 ft	SB-217 43622.46875 SB-217 (23)20190606 23 - 23 ft	SB-218 43621.375 SB-218 (1-5)20190605 1 - 5 ft
Metals (continued)																	
Lead	7439-92-1	mg/kg	**188**		**334**		**332**		**364**		**184**		**1460**		**956**		**360**
Mercury	7439-97-6	mg/kg	**1.1**		**0.40**		**2.5**		**2.8**		**0.29**		**1.0**		**7.2**		**0.86**
Nickel	7440-02-0	mg/kg	**16.6**		**63.3**		**9.8**		**37.8**		**33.1**		**20.1**		**26.1**		**16.9**
Selenium	7782-49-2	mg/kg	**2.2**		**2.1**		**2.9**		**2.6**		**0.78**		**1.5**		**6.5**		< 0.61
Silver	7440-22-4	mg/kg	< 0.65		**0.84**		**0.11**		**0.12**		**0.40**		**0.68**		**1.3**		**0.69**
Thallium	7440-28-0	mg/kg	< 0.65		**0.27**		**0.29**		**0.42**		< 0.56		**0.71**		**1.5**		< 0.61
Tin	7440-31-5	mg/kg	**7.9**		**55.3**		**16.6**		**9.7**		**14.0**		**51.7**		**48.5**		**6.2**
Vanadium	7440-62-2	mg/kg	**13.9**		**47.0**		**17.7**		**18.6**		**37.4**		**13.0**		**24.4**		**16.2**
Zinc	7440-66-6	mg/kg	**121**		**264**		**385**		**257**		**206**		**2180**		**766**		**313**
Metals-SPLP																	
Arsenic	7440-38-2	mg/L	< 0.050		**0.037**		**0.041**		< 0.050		< 0.050		< 0.050		**0.077**		< 0.050
Barium	7440-39-3	mg/L	**0.62**		**0.41**		**0.49**		**0.29**		**0.25**		**1.3**		**0.45**		**0.53**
Cadmium	7440-43-9	mg/L	< 0.012		**0.0056**		< 0.012		< 0.012		**0.0094**		< 0.012		< 0.012		< 0.012
Chromium	7440-47-3	mg/L	< 0.050		< 0.050		< 0.050		< 0.050		< 0.050		**0.073**		< 0.050		< 0.050
Copper	7440-50-8	mg/L	< 0.12		**0.056**		< 0.12		< 0.12		**0.091**		< 0.12		< 0.12		< 0.12
Lead	7439-92-1	mg/L	**0.62**		< 0.025		**0.054**		**1.0**		**0.043**		**0.055**		**0.68**		< 0.025
Mercury	7439-97-6	mg/L	< 0.00020		**0.00017**		**0.00031**		< 0.00020		**0.00030**		**0.00014**		**0.00064**		< 0.00020
Nickel	7440-02-0	mg/L	**0.28**		**0.062**		**0.036**		**0.072**		**0.058**		**0.095**		**0.034**		**0.059**
Selenium	7782-49-2	mg/L	< 0.050		< 0.050		< 0.050		< 0.050		< 0.050		< 0.050		< 0.050		< 0.050
Silver	7440-22-4	mg/L	< 0.050		< 0.050		< 0.050		< 0.050		< 0.050		< 0.050		< 0.050		< 0.050
Zinc	7440-66-6	mg/L	**1.1**		**0.13**		**0.69**		**1.4**		**1.2**		**3.2**		**1.9**		**0.25**
Cyanide																	
Total Cyanide	57-12-5	mg/kg	**0.18**		**0.29**		**20.1**		**39.6**		**0.26**		**0.44**		**3.9**		**0.63**
Polychlorinated Biphenyls (PCBs)																	
Aroclor 1016	12674-11-2	µg/kg	< 40.3		< 37.0		< 43.2		< 44.1		< 37.1		< 41.4		< 47.0		< 38.4
Aroclor 1221	11104-28-2	µg/kg	< 81.8		< 75.1		< 87.6		< 89.5		< 75.2		< 84.0		< 95.5		< 77.9
Aroclor 1232	11141-16-5	µg/kg	< 40.3		< 37.0		< 43.2		< 44.1		< 37.1		< 41.4		< 47.0		< 38.4
Aroclor 1242	53469-21-9	µg/kg	< 40.3		**130**		< 43.2		< 44.1		**57.7**		< 41.4		< 47.0		**354**
Aroclor 1248	12672-29-6	µg/kg	< 40.3		< 37.0		< 43.2		< 44.1		< 37.1		< 41.4		< 47.0		< 38.4
Aroclor 1254	11097-69-1	µg/kg	< 40.3		< 37.0		< 43.2		< 44.1		**282**		< 41.4		< 47.0		< 38.4
Aroclor 1260	11096-82-5	µg/kg	< 40.3		< 37.0		< 43.2		< 44.1		< 37.1		< 41.4		< 47.0		**290**
Aroclor 1262	37324-23-5	µg/kg	< 40.3		< 37.0		< 43.2		< 44.1		< 37.1		< 41.4		< 47.0		< 38.4
Aroclor 1268	11100-14-4	µg/kg	< 40.3		< 37.0		< 43.2		< 44.1		< 37.1		< 41.4		< 47.0		< 38.4
PCB (Total) (ppm)	CALC-PCBs	µg/kg	< 81.8		**130**		< 87.6		< 89.5		**340**		< 84.0		< 95.5		**645**
Pesticides-SPLP																	
Chlordane	57-74-9	mg/L	< 0.001		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020
Endrin	72-20-8	mg/L	**0.000011**		< 0.00020		**0.000033**		**0.000017**		< 0.00020		< 0.00020		**0.000028**		< 0.00020
Gamma BHC - Lindane	58-89-9	mg/L	**0.00025**		< 0.00010		**0.000073**		**0.000032**		< 0.00010		**0.000044**		< 0.00010		< 0.00010
Heptachlor	76-44-8	mg/L	**0.000011**		< 0.00010		< 0.00010		**0.000027**		< 0.00010		**0.000033**		**0.000028**		< 0.00010
Heptachlor Epoxide	1024-57-3	mg/L	**0.000003**		< 0.00010		**0.000038**		< 0.00010		< 0.00010		< 0.00010		< 0.00010		< 0.00010
Methoxychlor	72-43-5	mg/L	**0.000089**		< 0.0010		< 0.0010		**0.000046**		< 0.0010		< 0.0010		< 0.0010		< 0.0010
Toxaphene	8001-35-2	mg/L	< 0.002		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010
Herbicides-SPLP																	
2,4,5-TP (Silvex)	93-72-1	mg/L	**0.00019**		**0.00016**		**0.000082**		**0.00024**		**0.000015**		**0.00010**		**0.00011**		**0.0000040**
2,4-D	94-75-7	mg/L	< 0.0050		**0.000077**		**0.00019**		**0.00016**		**0.000062**		**0.00015**		**0.00021**		**0.00018**
Other																	
BTU	BTU	BTUs/lb.	**7620**														
Cresols (total)-TCLP	1319-77-3	mg/kg															
Cyanide (Reactivity)	57-12-5-R	mg/kg	< 124		< 99.8		< 99.7		< 100		< 99.8		< 99.7		< 99.8		< 100
Ignitability	IGNITABILITY	mm/sec	**2.2**		**2.2**		**2.2**		**2.2**		**2.2**		**2.2**		**2.2**		**2.2**
Moisture, percent	MOIST	%	**19.4**	**27.2**	**11.0**	**10.5**	**23.7**	**38.3**	**25.6**	**27.8**	**11.1**	**25.7**	**20.8**	**8.2**	**30.3**	**28.3**	**18.8**
Moisture, percent	MOIST	%	**14.9**														
pH	PH	S.U.	**10.4**		**11.8**		**9.5**		**8.4**		**9.9**		**8.1**		**8.6**		**11.3**
Solids, Total	TSOLIDS	%	**87.6**														
Sulfide (Reactivity)	18496-25-8-R	mg/kg	< 99.9		< 99.8		< 99.7		< 100		< 99.8		< 99.7		< 99.8		< 100
Sulfur	7704-34-9	% (w/w)	**0.117**		**0.219**		**0.838**		**0.293**		**0.220**		**0.374**		**0.404**		**0.857**
Temperature	TEMP	deg c	**23.7**		**23.6**		**23.9**		**24.0**		**23.5**		**23.4**		**23.9**		**23.5**
Total Organic Halides	TOX	mg/kg	< 28.5														

Notes:
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
BTU - British Thermal Unit
BTUs/lb. - BTUs per pounds
mm/sec - millimeters per second
S.U. - standard units
w/w - weight by weight
deg C - degrees Celsius

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-218 43621.375 SB-218 (3)20190605 3 - 3 ft	SB-218 43628.34028 SB-218 (5-10)20190612 5 - 10 ft	SB-218 43628.34028 SB-218 (9)20190612 9 - 9 ft	SB-218 43628.36111 SB-218 (20-26)20190612 20 - 26 ft	SB-218 43628.36111 SB-218 (25)20190612 25 - 25 ft	SB-219 43621.3125 SB-219 (1-5)20190605 1 - 5 ft	SB-219 43621.3125 SB-219 (3)20190605 3 - 3 ft	SB-219 43621.375 SB-219 (5-10)20190605 5 - 10 ft	SB-219 43621.375 SB-219 (8)20190605 8 - 8 ft	SB-219 43621.58333 SB-219 (20-26)20190605 20 - 26 ft	SB-219 43621.58333 SB-219 (23)20190605 23 - 23 ft	SB-220 43636.33333 SB-220(10-15)20190620 10 - 15 ft	SB-220 43636.33333 SB-220(14)20190620 14 - 14 ft	SB-220 43636.34375 SB-220(15-20)20190620 15 - 20 ft	SB-220 43636.34375 SB-220(19)20190620 19 - 19 ft
Hydrocarbons																	
Diesel Range Organics C10-C28	DRO(C10-C28)	mg/kg		**32800**		**5290**		**384**		**921**		**76000**		**24800**		**69100**	
Gasoline Range Organics C6-C10	DRO(C6-C10)	µg/kg	**4160**		**166000**		**3990000**		**4170**		**13000**		**9200000**		**184000**		**4010000**
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	71-55-6	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
1,1,2,2-Tetrachloroethane	79-34-5	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
1,1,2-Trichloroethane	79-00-5	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
1,1-Dichloroethane	75-34-3	µg/kg	< 158		< 1180		< 1520		**10.5**		< 107		< 5870		< 674		< 8430
1,1-Dichloroethene	75-35-4	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
1,2,3-Trichlorobenzene	87-61-6	µg/kg	< 158		**659**		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
1,2,4-Trichlorobenzene	120-82-1	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
1,2-Dibromo-3-chloropropane	96-12-8	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
1,2-Dibromoethane	106-93-4	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
1,2-Dichlorobenzene	95-50-1	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
1,2-Dichloroethane	107-06-2	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
1,2-Dichloropropane	78-87-5	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
1,3-Dichlorobenzene	541-73-1	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
1,4-Dioxane	123-91-1	µg/kg	< 3960		**17300**		< 38100		< 87.0		< 2670		< 147000		< 16800		< 211000
2-Butanone	78-93-3	µg/kg	**93.8**		< 1180		< 1520		**12.4**		< 107		< 5870		< 674		< 8430
2-Hexanone	591-78-6	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
4-Methyl-2-pentanone	108-10-1	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Acetone	67-64-1	µg/kg	**239**		< 1180		< 1520		**208**		**77.4**		< 5870		< 674		< 8430
Benzene	71-43-2	µg/kg	**42.2**		**16800**		**662000**		< 3.5		**2060**		**809000**		**18800**		**795000**
Bromochloromethane	74-97-5	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Bromodichloromethane	75-27-4	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Bromoform	75-25-2	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Bromomethane	74-83-9	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Carbon disulfide	75-15-0	µg/kg	< 158		< 1180		< 1520		**118**		**151**		< 5870		< 674		< 8430
Carbon tetrachloride	56-23-5	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Chlorobenzene	108-90-7	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Chloroethane	75-00-3	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Chloroform	67-66-3	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Chloromethane	74-87-3	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
cis-1,2-Dichloroethene	156-59-2	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
cis-1,3-Dichloropropene	10061-01-5	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Cyclohexane	110-82-7	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Dibromochloromethane	124-48-1	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Dichlorodifluoromethane	75-71-8	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Ethylbenzene	100-41-4	µg/kg	**126**		**9810**		**96400**		**115**		**14700**		**91100**		**25200**		**111000**
Isopropylbenzene	98-82-8	µg/kg	< 158		**773**		**1950**		**24.4**		**535**		< 5870		**2210**		< 8430
m+p-Xylene	1330-20-7-M,P	µg/kg	**280**		**19000**		**448000**		**71.2**		**12900**		**792000**		**22200**		**532000**
Methyl acetate	79-20-9	µg/kg	**56300**		< 1180		< 1520		< 3.5		**154**		< 5870		**3660**		< 8430
Methyl tert-butyl ether	1634-04-4	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Methylcyclohexane	108-87-2	µg/kg	< 158		< 1180		< 1520		**75.1**		< 107		< 5870		< 674		< 8430
Methylene chloride	75-09-2	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
o-Xylene	95-47-6	µg/kg	**113**		**7430**		**188000**		**77.2**		**5600**		**359000**		**10000**		**222000**
Styrene	100-42-5	µg/kg	< 158		**4310**		**410000**		< 3.5		**2320**		**596000**		**2700**		**530000**
Tetrachloroethene	127-18-4	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Toluene	108-88-3	µg/kg	**219**		**15300**		**743000**		**6.7**		**7570**		**795000**		**20600**		**851000**
trans-1,2-Dichloroethene	156-60-5	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
trans-1,3-Dichloropropene	10061-02-6	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Trichloroethene	79-01-6	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Trichlorofluoromethane	75-69-4	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Vinyl chloride	75-01-4	µg/kg	< 158		< 1180		< 1520		< 3.5		< 107		< 5870		< 674		< 8430
Xylenes (total)	1330-20-7	µg/kg	**393**		**26400**		**637000**		**148**		**18500**		**1150000**		**32300**		**754000**
VOCs-Synthetic Precipitation Leaching Procedure (SPLP)																	
1,1-Dichloroethene	75-35-4	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
1,2-Dichloroethane	107-06-2	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
2-Butanone	78-93-3	mg/L		< 0.025		< 0.025		< 0.025		< 0.025		**0.0054**		< 0.025		< 0.025	
Benzene	71-43-2	mg/L		**0.14**		**6.3**		< 0.010		**0.0080**		**15.9**		**0.045**		**3.4**	
Carbon tetrachloride	56-23-5	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
Chlorobenzene	108-90-7	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
Chloroform	67-66-3	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
Tetrachloroethene	127-18-4	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
Trichloroethene	79-01-6	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
Vinyl chloride	75-01-4	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
Semivolatile Organic Compounds (SVOCs)																	
1,1'-Biphenyl	92-52-4	µg/kg		**30500**		**94300**		**705**		**3260**		**234000**		**8600**		**205000**	
1,2,4,5-Tetrachlorobenzene	95-94-3	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
2,2'-oxybis(1-Chloropropane)	108-60-1	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
2,3,4,6-Tetrachlorophenol	58-90-2	µg/kg		< 3960		< 4330		< 4390		< 3730		< 25000		< 8110		< 20700	
2,4,5-Trichlorophenol	95-95-4	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
2,4,6-Trichlorophenol	88-06-2	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
2,4-Dichlorophenol	120-83-2	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
2,4-Dimethylphenol	105-67-9	µg/kg		**8970**		**27500**		< 892		< 757		**112000**		< 1650		**70200**	
2,4-Dinitrophenol	51-28-5	µg/kg		< 8040		< 8790		< 8920		< 7570		< 50700		< 16500		< 42000	
2,4-Dinitrotoluene	121-14-2	µg/kg		< 3960		< 4330		< 4390		< 3730		< 25000		< 8110		< 20700	
2,6-Dinitrotoluene	606-20-2	µg/kg		< 3960		< 4330		< 4390		< 3730		< 25000		< 8110		< 20700	
2-Chloronaphthalene	91-58-7	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-218 43621.375 SB-218 (3)20190605 3 - 3 ft	SB-218 43628.34028 SB-218 (5-10)20190612 5 - 10 ft	SB-218 43628.34028 SB-218 (9)20190612 9 - 9 ft	SB-218 43628.36111 SB-218 (20-26)20190612 20 - 26 ft	SB-218 43628.36111 SB-218 (25)20190612 25 - 25 ft	SB-219 43621.3125 SB-219 (1-5)20190605 1 - 5 ft	SB-219 43621.3125 SB-219 (3)20190605 3 - 3 ft	SB-219 43621.375 SB-219 (5-10)20190605 5 - 10 ft	SB-219 43621.375 SB-219 (8)20190605 8 - 8 ft	SB-219 43621.58333 SB-219 (20-26)20190605 20 - 26 ft	SB-219 43621.58333 SB-219 (23)20190605 23 - 23 ft	SB-220 43636.33333 SB-220(10-15)20190620 10 - 15 ft	SB-220 43636.33333 SB-220(14)20190620 14 - 14 ft	SB-220 43636.34375 SB-220(15-20)20190620 15 - 20 ft	SB-220 43636.34375 SB-220(19)20190620 19 - 19 ft
SVOCs (continued)																	
2-Chlorophenol	95-57-8	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
2-Methylnaphthalene	91-57-6	µg/kg		**201000**		**1030000**		**6010**		**18900**		**2430000**		**74200**		**1340000**	
2-Methylphenol	95-48-7	µg/kg		**6290**		**37100**		< 892		< 757		**105000**		< 1650		**75100**	
2-Nitroaniline	88-74-4	µg/kg		< 3960		< 4330		< 4390		< 3730		< 25000		< 8110		< 20700	
2-Nitrophenol	88-75-5	µg/kg		< 3960		< 4330		< 4390		< 3730		< 25000		< 8110		< 20700	
3,3'-Dichlorobenzidine	91-94-1	µg/kg		< 3960		< 4330		< 4390		< 3730		< 25000		< 8110		< 20700	
3-and 4-Methylphenol	3,4-MEPH	µg/kg		**13800**		**72000**		< 892		< 757		**323000**		**2350**		**239000**	
3-Nitroaniline	99-09-2	µg/kg		< 3960		< 4330		< 4390		< 3730		< 25000		< 8110		< 20700	
4,6-Dinitro-2-methylphenol	534-52-1	µg/kg		< 8040		< 8790		< 8920		< 7570		< 50700		< 16500		< 42000	
4-Bromophenyl phenyl ether	101-55-3	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
4-Chloro-3-methylphenol	59-50-7	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
4-Chloroaniline	106-47-8	µg/kg		< 3960		< 4330		< 4390		< 3730		< 25000		< 8110		< 20700	
4-Chlorophenyl phenyl ether	7005-72-3	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
4-Nitroaniline	100-01-6	µg/kg		< 3960		< 4330		< 4390		< 3730		< 25000		< 8110		< 20700	
4-Nitrophenol	100-02-7	µg/kg		< 8040		< 8790		< 8920		< 7570		< 50700		< 16500		< 42000	
Acenaphthene	83-32-9	µg/kg		**50300**		**62700**		**1060**		**8290**		< 5070		**27500**		**121000**	
Acenaphthylene	208-96-8	µg/kg		**87800**		**415000**		**2220**		**10800**		**1280000**		**16800**		**800000**	
Acetophenone	98-86-2	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
Anthracene	120-12-7	µg/kg		**92900**		**234000**		**3990**		**10700**		**894000**		**26200**		**752000**	
Atrazine	1912-24-9	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
Benzaldehyde	100-52-7	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
Benzo(a)anthracene	56-55-3	µg/kg		**105000**		**158000**		**7140**		**8900**		**617000**		**30500**		**616000**	
Benzo(a)pyrene	50-32-8	µg/kg		**76800**		**112000**		**5170**		**5960**		**384000**		**20900**		**394000**	
Benzo(b)fluoranthene	205-99-2	µg/kg		**87600**		**112000**		**7000**		**5590**		**428000**		**21200**		**398000**	
Benzo(ghi)perylene	191-24-2	µg/kg		**27700**		**39400**		**1840**		**3080**		**92000**		**10200**		**139000**	
Benzo(k)fluoranthene	207-08-9	µg/kg		**36800**		**53500**		**3130**		**2550**		**220000**		**11500**		**236000**	
bis(2-Chloroethoxy)methane	111-91-1	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
bis(2-Chloroethyl) ether	111-44-4	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
bis(2-Ethylhexyl) phthalate	117-81-7	µg/kg		< 804		< 879		**12200**		**1210**		< 5070		**3500**		< 4200	
Butyl benzyl phthalate	85-68-7	µg/kg		< 804		< 879		**10800**		**1590**		< 5070		< 1650		< 4200	
Caprolactam	105-60-2	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
Carbazole	86-74-8	µg/kg		**68500**		**65300**		**1650**		**2390**		**328000**		**13700**		**375000**	
Chrysene	218-01-9	µg/kg		**76400**		**120000**		**6510**		**7770**		**566000**		**23500**		**488000**	
Dibenz(a,h)anthracene	53-70-3	µg/kg		**9460**		**6370**		**553**		**862**		**35600**		< 1650		**21400**	
Dibenzofuran	132-64-9	µg/kg		**108000**		**134000**		**1570**		**3240**		**580000**		**18000**		**624000**	
Diethyl phthalate	84-66-2	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
Dimethyl phthalate	131-11-3	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
Di-n-butyl phthalate	84-74-2	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
Di-n-octyl phthalate	117-84-0	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
Fluoranthene	206-44-0	µg/kg		**289000**		**384000**		**16400**		**17500**		**1510000**		**64500**		**1500000**	
Fluorene	86-73-7	µg/kg		**169000**		**348000**		**3330**		**12600**		**1190000**		**36100**		**1010000**	
Hexachlorobenzene	118-74-1	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
Hexachlorobutadiene	87-68-3	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
Hexachlorocyclopentadiene	77-47-4	µg/kg		< 3960		< 4330		< 4390		< 3730		< 25000		< 8110		< 20700	
Hexachloroethane	67-72-1	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg		**33800**		**48600**		**2130**		**2850**		**114000**		**11200**		**175000**	
Isophorone	78-59-1	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
Naphthalene	91-20-3	µg/kg		**1790000**		**5590000**		**17300**		**34800**		**12700000**		**311000**		**6460000**	
Nitrobenzene	98-95-3	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
N-Nitroso-di-n-propylamine	621-64-7	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
N-Nitrosodiphenylamine	86-30-6	µg/kg		< 804		< 879		< 892		< 757		< 5070		< 1650		< 4200	
Pentachlorophenol	87-86-5	µg/kg		< 8040		< 8790		< 8920		< 7570		< 50700		< 16500		< 42000	
Phenanthrene	85-01-8	µg/kg		**467000**		**832000**		**16300**		**39300**		**2950000**		**108000**		**2730000**	
Phenol	108-95-2	µg/kg		**8710**		**110000**		**636**		< 757		**397000**		**2110**		**321000**	
Pyrene	129-00-0	µg/kg		**218000**		**340000**		**12500**		**19800**		**1240000**		**54100**		**1160000**	
SVOCs-SPLP																	
1,4-Dichlorobenzene	106-46-7	mg/L		< 0.010		< 0.10		< 0.010		< 0.010		< 0.50		< 0.010		< 0.050	
2,4,5-Trichlorophenol	95-95-4	mg/L		< 0.025		< 0.25		< 0.025		< 0.025		< 1.2		< 0.025		< 0.12	
2,4,6-Trichlorophenol	88-06-2	mg/L		< 0.010		< 0.10		< 0.010		< 0.010		< 0.50		< 0.010		< 0.050	
2,4-Dinitrotoluene	121-14-2	mg/L		< 0.010		< 0.10		< 0.010		< 0.010		< 0.50		< 0.010		< 0.050	
2-Methylphenol	95-48-7	mg/L		**0.14**		**3.1**		< 0.010		< 0.010		< 5.0		**0.066**		**2.9**	
3-and 4-Methylphenol	3,4-MEPH	mg/L		**0.26**		**7.4**		< 0.010		**0.0080**		< 5.0		**0.20**		**7.4**	
Hexachlorobenzene	118-74-1	mg/L		< 0.010		< 0.10		< 0.010		< 0.010		< 0.50		< 0.010		< 0.050	
Hexachlorobutadiene	87-68-3	mg/L		< 0.010		< 0.10		< 0.010		< 0.010		< 0.50		< 0.010		< 0.050	
Hexachloroethane	67-72-1	mg/L		< 0.010		< 0.10		< 0.010		< 0.010		< 0.50		< 0.010		< 0.050	
Nitrobenzene	98-95-3	mg/L		< 0.010		< 0.10		< 0.010		< 0.010		< 0.50		< 0.010		< 0.050	
Pentachlorophenol	87-86-5	mg/L		< 0.025		< 0.25		< 0.025		< 0.025		< 1.2		< 0.025		< 0.12	
Pyridine	110-86-1	mg/L		**0.0072**		**0.57**		< 0.010		< 0.010		**0.60**		**0.0035**		**0.10**	
Metals																	
Antimony	7440-36-0	mg/kg		< 3.4		**6.3**		**0.94**		< 3.7		**41.9**		< 4.1		**1.9**	
Arsenic	7440-38-2	mg/kg		**8.2**		**30.7**		**10.4**		**3.7**		**59.0**		**24.7**		**25.5**	
Beryllium	7440-41-7	mg/kg		**0.13**		**0.46**		**0.29**		**0.18**		**0.38**		**0.076**		**0.073**	
Boron	7440-42-8	mg/kg		**5.5**		**5.8**		**19.1**		**5.6**		**7.4**		**26.8**		**11.2**	
Cadmium	7440-43-9	mg/kg		**0.26**		**2.6**		**2.5**		**0.17**		**1.9**		**0.67**		**1.1**	
Chromium	7440-47-3	mg/kg		**19.2**		**18.2**		**41.7**		**15.5**		**15.7**		**32.0**		**17.9**	
Chromium, Hexavalent	18540-29-9	mg/kg		< 1.2		< 1.3		< 6.7		< 1.2		< 1.6		< 1.2		< 1.3	
Chromium, Trivalent	16065-83-1	mg/kg		**19.2**		**18.2**		**41.7**		**15.5**		**15.7**		**32.0**		**17.9**	
Cobalt	7440-48-4	mg/kg		**7.7**		**7.3**		**5.4**		**4.5**		**6.3**		**6.8**		**6.4**	
Copper	7440-50-8	mg/kg		**42.9**		**210**		**60.2**		**21.5**		**106**		**145**		**192**	

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Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-218 43621.375 SB-218 (3)20190605 3 - 3 ft	SB-218 43628.34028 SB-218 (5-10)20190612 5 - 10 ft	SB-218 43628.34028 SB-218 (9)20190612 9 - 9 ft	SB-218 43628.36111 SB-218 (20-26)20190612 20 - 26 ft	SB-218 43628.36111 SB-218 (25)20190612 25 - 25 ft	SB-219 43621.3125 SB-219 (1-5)20190605 1 - 5 ft	SB-219 43621.3125 SB-219 (3)20190605 3 - 3 ft	SB-219 43621.375 SB-219 (5-10)20190605 5 - 10 ft	SB-219 43621.375 SB-219 (8)20190605 8 - 8 ft	SB-219 43621.58333 SB-219 (20-26)20190605 20 - 26 ft	SB-219 43621.58333 SB-219 (23)20190605 23 - 23 ft	SB-220 43636.33333 SB-220(10-15)20190620 10 - 15 ft	SB-220 43636.33333 SB-220(14)20190620 14 - 14 ft	SB-220 43636.34375 SB-220(15-20)20190620 15 - 20 ft	SB-220 43636.34375 SB-220(19)20190620 19 - 19 ft
Metals (continued)																	
Lead	7439-92-1	mg/kg		**363**		**601**		**1030**		**92.7**		**637**		**266**		**567**	
Mercury	7439-97-6	mg/kg		**1.2**		**2.2**		**1.7**		**0.11**		**2.1**		**1.8**		**0.89**	
Nickel	7440-02-0	mg/kg		**28.5**		**22.3**		**23.3**		**12.5**		**14.4**		**20.6**		**10.8**	
Selenium	7782-49-2	mg/kg		**0.80**		**5.3**		< 0.71		< 0.62		**7.2**		**2.1**		**5.3**	
Silver	7440-22-4	mg/kg		< 0.56		**1.0**		**1.4**		< 0.62		**0.68**		**0.43**		**0.36**	
Thallium	7440-28-0	mg/kg		< 0.56		< 0.70		**0.21**		< 0.62		**3.7**		< 0.68		**1.5**	
Tin	7440-31-5	mg/kg		**11.2**		**30.8**		**13.0**		**2.4**		**15.0**		**11.4**		**16.4**	
Vanadium	7440-62-2	mg/kg		**28.1**		**21.5**		**17.8**		**17.0**		**16.8**		**42.7**		**31.8**	
Zinc	7440-66-6	mg/kg		**237**		**563**		**1010**		**80.3**		**326**		**446**		**657**	
Metals-SPLP																	
Arsenic	7440-38-2	mg/L		**0.046**		**0.087**		< 0.050		< 0.050		**0.36**		< 0.050		< 0.050	
Barium	7440-39-3	mg/L		**0.96**		**0.25**		**0.18**		**0.76**		**0.29**		**0.47**		**0.42**	
Cadmium	7440-43-9	mg/L		< 0.012		< 0.012		< 0.012		< 0.012		< 0.012		< 0.012		< 0.012	
Chromium	7440-47-3	mg/L		< 0.050		**0.0084**		**0.030**		**0.037**		< 0.050		< 0.050		< 0.050	
Copper	7440-50-8	mg/L		**0.049**		**0.046**		< 0.12		< 0.12		< 0.12		< 0.12		< 0.12	
Lead	7439-92-1	mg/L		**0.41**		**0.22**		**0.055**		**0.052**		< 0.025		< 0.025		**0.062**	
Mercury	7439-97-6	mg/L		**0.00032**		< 0.00020		**0.00029**		**0.00011**		< 0.00020		< 0.00020		< 0.00020	
Nickel	7440-02-0	mg/L		**0.063**		**0.045**		**0.073**		**0.038**		< 0.20		**0.13**		**0.045**	
Selenium	7782-49-2	mg/L		< 0.050		< 0.050		< 0.050		< 0.050		**0.026**		< 0.050		< 0.050	
Silver	7440-22-4	mg/L		< 0.050		< 0.050		< 0.050		< 0.050		< 0.050		< 0.050		< 0.050	
Zinc	7440-66-6	mg/L		**0.90**		**1.7**		**3.3**		**0.55**		**0.039**		**2.0**		**2.0**	
Cyanide																	
Total Cyanide	57-12-5	mg/kg		**0.26**		**7.6**		**0.39**		**20.8**		**6.2**		**0.40**		**0.78**	
Polychlorinated Biphenyls (PCBs)																	
Aroclor 1016	12674-11-2	µg/kg		< 39.0		< 42.9		< 44.1		< 37.3		< 48.7		< 41.3		< 40.3	
Aroclor 1221	11104-28-2	µg/kg		< 79.2		< 87.1		< 89.4		< 75.8		< 98.8		< 83.8		< 81.7	
Aroclor 1232	11141-16-5	µg/kg		< 39.0		< 42.9		< 44.1		< 37.3		< 48.7		< 41.3		< 40.3	
Aroclor 1242	53469-21-9	µg/kg		**30.7**		< 42.9		**606**		**87.9**		< 48.7		**356**		< 40.3	
Aroclor 1248	12672-29-6	µg/kg		< 39.0		< 42.9		< 44.1		< 37.3		< 48.7		< 41.3		< 40.3	
Aroclor 1254	11097-69-1	µg/kg		< 39.0		< 42.9		**285**		< 37.3		< 48.7		**274**		< 40.3	
Aroclor 1260	11096-82-5	µg/kg		< 39.0		< 42.9		< 44.1		**67.4**		< 48.7		< 41.3		< 40.3	
Aroclor 1262	37324-23-5	µg/kg		< 39.0		< 42.9		< 44.1		< 37.3		< 48.7		< 41.3		< 40.3	
Aroclor 1268	11100-14-4	µg/kg		< 39.0		< 42.9		< 44.1		< 37.3		< 48.7		< 41.3		< 40.3	
PCB (Total) (ppm)	CALC-PCBs	µg/kg		**30.7**		< 87.1		**891**		**155**		< 98.8		**630**		< 81.7	
Pesticides-SPLP																	
Chlordane	57-74-9	mg/L		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.0020	
Endrin	72-20-8	mg/L		< 0.00020		< 0.00020		< 0.00020		< 0.00020		**0.000040**		< 0.00020		< 0.00020	
Gamma BHC - Lindane	58-89-9	mg/L		< 0.00010		< 0.00010		< 0.00010		< 0.00010		**0.000099**		< 0.00010		< 0.00010	
Heptachlor	76-44-8	mg/L		< 0.00010		< 0.00010		< 0.00010		< 0.00010		**0.00028**		< 0.00010		< 0.00010	
Heptachlor Epoxide	1024-57-3	mg/L		< 0.00010		< 0.00010		< 0.00010		< 0.00010		**0.000071**		< 0.00010		< 0.00010	
Methoxychlor	72-43-5	mg/L		< 0.0010		< 0.0010		< 0.0010		< 0.0010		**0.00043**		< 0.0010		< 0.0010	
Toxaphene	8001-35-2	mg/L		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
Herbicides-SPLP																	
2,4,5-TP (Silvex)	93-72-1	mg/L		**0.000084**		**0.00052**		< 0.0025		**0.000081**		**0.00036**		**0.000084**		**0.000044**	
2,4-D	94-75-7	mg/L		**0.00035**		< 0.0050		**0.000051**		**0.000029**		**0.00066**		< 0.0050		**0.00016**	
Other																	
BTU	BTU	BTUs/lb.		**7740**		**10900**								**1860**		**5840**	
Cresols (total)-TCLP	1319-77-3	mg/kg															
Cyanide (Reactivity)	57-12-5-R	mg/kg		< 99.7		< 99.3		< 99.9		< 100		< 99.6		< 99.9		< 127	
Ignitability	IGNITABILITY	mm/sec		**2.2**		**2.2**		**2.2**		**2.2**		**2.2**		**2.2**		**2.2**	
Moisture, percent	MOIST	%	**19.8**	**16.7**	**15.7**	**23.8**	**23.3**	**25.6**	**23.1**	**11.7**	**11.2**	**35.2**	**42.4**	**20.8**	**18.5**	**21.4**	**19.9**
Moisture, percent	MOIST	%															
pH	PH	S.U.		**8.9**		**9.0**		**8.2**		**9.4**		**12.5**		**10.8**		**10.4**	
Solids, Total	TSOLIDS	%		**84.6**		**72.2**								**80.9**		**79.5**	
Sulfide (Reactivity)	18496-25-8-R	mg/kg		< 99.7		< 99.3		< 99.9		< 100		< 99.6		< 99.9		< 99.9	
Sulfur	7704-34-9	% (w/w)		**0.283**		**0.514**		**2.57**		**0.198**		**0.482**		**0.251**		**0.0969**	
Temperature	TEMP	deg c		**24.2**		**24.2**		**23.5**		**23.6**		**23.4**		**23.4**		**23.2**	
Total Organic Halides	TOX	mg/kg		< 29.6		< 34.6								< 30.9		< 31.5	

Notes:
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
BTU - British Thermal Unit
BTUs/lb. - BTUs per pounds
mm/sec - millimeters per second
S.U. - standard units
w/w - weight by weight
deg C - degrees Celsius

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-221 43636.35417 SB-221(10-15)20190620 10 - 15 ft	SB-221 43636.35417 SB-221(14)20190620 14 - 14 ft	SB-221 43636.36458 SB-221(15-20)20190620 15 - 20 ft	SB-221 43636.36458 SB-221(19)20190620 19 - 19 ft	SB-222 43636.375 SB-222(10-15)20190620 10 - 15 ft	SB-222 43636.375 SB-222(14)20190620 14 - 14 ft	SB-222 43636.38542 SB-222(15-20)20190620 15 - 20 ft	SB-222 43636.38542 SB-222(19)20190620 19 - 19 ft	TP-200 43627.47917 TP-200 (2)20190611 2 - 2 ft	TP-200 43627.48958 TP-200 (1-6)20190611 1 - 6 ft	TP-201 43627.52083 TP-201 (4)20190611 4 - 4 ft	TP-201 43627.54167 TP-201 (1-5)20190611 1 - 5 ft	TP-202 43626.375 TP-202 (1-6)20190610 1 - 6 ft	TP-202 43626.375 TP-202 (4)20190610 4 - 4 ft	TP-202 43630.45833 TP-202 (10-15)20190614 10 - 15 ft
Hydrocarbons																	
Diesel Range Organics C10-C28	DRO(C10-C28)	mg/kg	**90100**		**83500**		**80100**		**45900**			**1050**		**1240**	**1320**		**4430**
Gasoline Range Organics C6-C10	DRO(C6-C10)	µg/kg		**645000**		**960000**		**572000**		**1210000**	< 109		**336**			< 121	
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	71-55-6	µg/kg		< 2450		< 3200		< 2580		< 2740	**4.5**		< 3.4			< 2.6	
1,1,2,2-Tetrachloroethane	79-34-5	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
1,1,2-Trichloroethane	79-00-5	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
1,1-Dichloroethane	75-34-3	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
1,1-Dichloroethene	75-35-4	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
1,2,3-Trichlorobenzene	87-61-6	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
1,2,4-Trichlorobenzene	120-82-1	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
1,2-Dibromo-3-chloropropane	96-12-8	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
1,2-Dibromoethane	106-93-4	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
1,2-Dichlorobenzene	95-50-1	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
1,2-Dichloroethane	107-06-2	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
1,2-Dichloropropane	78-87-5	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
1,3-Dichlorobenzene	541-73-1	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
1,4-Dioxane	123-91-1	µg/kg		< 61400		< 79900		< 64500		< 68500	< 69.9		< 85.8			< 65.1	
2-Butanone	78-93-3	µg/kg		< 2450		< 3200		< 2580		< 2740	**18.0**		**18.4**			**6.2**	
2-Hexanone	591-78-6	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
4-Methyl-2-pentanone	108-10-1	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Acetone	67-64-1	µg/kg		< 2450		< 3200		< 2580		< 2740	**211**		**280**			**70.8**	
Benzene	71-43-2	µg/kg		**123000**		**206000**		**112000**		**184000**	< 2.8		< 3.4			< 2.6	
Bromochloromethane	74-97-5	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Bromodichloromethane	75-27-4	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Bromoform	75-25-2	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Bromomethane	74-83-9	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Carbon disulfide	75-15-0	µg/kg		< 2450		< 3200		< 2580		< 2740	**10.9**		**85.3**			**9.0**	
Carbon tetrachloride	56-23-5	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Chlorobenzene	108-90-7	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Chloroethane	75-00-3	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Chloroform	67-66-3	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Chloromethane	74-87-3	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
cis-1,2-Dichloroethene	156-59-2	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
cis-1,3-Dichloropropene	10061-01-5	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Cyclohexane	110-82-7	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Dibromochloromethane	124-48-1	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Dichlorodifluoromethane	75-71-8	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Ethylbenzene	100-41-4	µg/kg		**4810**		**9070**		**11700**		**57200**	< 2.8		**13.4**			< 2.6	
Isopropylbenzene	98-82-8	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		**9.8**			< 2.6	
m+p-Xylene	1330-20-7-M,P	µg/kg		**118000**		**196000**		**81300**		**130000**	< 5.6		< 6.9			< 5.2	
Methyl acetate	79-20-9	µg/kg		**1430**		< 3200		< 2580		**3080**	< 2.8		**4.0**			< 2.6	
Methyl tert-butyl ether	1634-04-4	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Methylcyclohexane	108-87-2	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		**44.8**			< 2.6	
Methylene chloride	75-09-2	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
o-Xylene	95-47-6	µg/kg		**41100**		**66600**		**30200**		**51300**	< 2.8		**2.4**			< 2.6	
Styrene	100-42-5	µg/kg		**31300**		**78900**		**42900**		**73400**	< 2.8		< 3.4			< 2.6	
Tetrachloroethene	127-18-4	µg/kg		< 2450		< 3200		< 2580		< 2740	**1.9**		< 3.4			< 2.6	
Toluene	108-88-3	µg/kg		**132000**		**205000**		**100000**		**189000**	< 2.8		< 3.4			< 2.6	
trans-1,2-Dichloroethene	156-60-5	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
trans-1,3-Dichloropropene	10061-02-6	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Trichloroethene	79-01-6	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Trichlorofluoromethane	75-69-4	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Vinyl chloride	75-01-4	µg/kg		< 2450		< 3200		< 2580		< 2740	< 2.8		< 3.4			< 2.6	
Xylenes (total)	1330-20-7	µg/kg		**159000**		**262000**		**112000**		**182000**	< 5.6		**5.4**			< 5.2	
VOCs-Synthetic Precipitation Leaching Procedure (SPLP)																	
1,1-Dichloroethene	75-35-4	mg/L	< 0.010		< 0.010		< 0.010		< 0.010			< 0.010		< 0.010	< 0.010		< 0.010
1,2-Dichloroethane	107-06-2	mg/L	< 0.010		< 0.010		< 0.010		< 0.010			< 0.010		< 0.010	< 0.010		< 0.010
2-Butanone	78-93-3	mg/L	< 0.025		< 0.025		< 0.025		< 0.025			< 0.025		< 0.025	< 0.025		< 0.025
Benzene	71-43-2	mg/L	**0.53**		**0.026**		**2.2**		**0.031**			**0.0028**		< 0.010	**0.062**		< 0.010
Carbon tetrachloride	56-23-5	mg/L	< 0.010		< 0.010		< 0.010		< 0.010			< 0.010		< 0.010	< 0.010		< 0.010
Chlorobenzene	108-90-7	mg/L	< 0.010		< 0.010		< 0.010		< 0.010			< 0.010		< 0.010	< 0.010		< 0.010
Chloroform	67-66-3	mg/L	< 0.010		< 0.010		< 0.010		< 0.010			< 0.010		< 0.010	< 0.010		< 0.010
Tetrachloroethene	127-18-4	mg/L	< 0.010		< 0.010		< 0.010		< 0.010			< 0.010		< 0.010	< 0.010		< 0.010
Trichloroethene	79-01-6	mg/L	< 0.010		< 0.010		< 0.010		< 0.010			< 0.010		< 0.010	< 0.010		< 0.010
Vinyl chloride	75-01-4	mg/L	< 0.010		< 0.010		< 0.010		< 0.010			< 0.010		< 0.010	< 0.010		< 0.010
Semivolatile Organic Compounds (SVOCs)																	
1,1'-Biphenyl	92-52-4	µg/kg	**162000**		**62200**		**187000**		**58200**			< 1130		< 982	< 969		**16200**
1,2,4,5-Tetrachlorobenzene	95-94-3	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
2,2'-oxybis(1-Chloropropane)	108-60-1	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
2,3,4,6-Tetrachlorophenol	58-90-2	µg/kg	< 39200		< 19500		< 38200		< 18900			< 5570		< 4840	< 4770		< 3520
2,4,5-Trichlorophenol	95-95-4	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
2,4,6-Trichlorophenol	88-06-2	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
2,4-Dichlorophenol	120-83-2	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
2,4-Dimethylphenol	105-67-9	µg/kg	**87300**		**23500**		**75100**		**18600**			< 1130		< 982	< 969		< 714
2,4-Dinitrophenol	51-28-5	µg/kg	< 79600		< 39700		< 77600		< 38300			< 11300		< 9820	< 9690		< 7140
2,4-Dinitrotoluene	121-14-2	µg/kg	< 39200		< 19500		< 38200		< 18900			< 5570		< 4840	< 4770		< 3520
2,6-Dinitrotoluene	606-20-2	µg/kg	< 39200		< 19500		< 38200		< 18900			< 5570		< 4840	< 4770		< 3520
2-Chloronaphthalene	91-58-7	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-221 43636.35417 SB-221(10-15)20190620 10 - 15 ft	SB-221 43636.35417 SB-221(14)20190620 14 - 14 ft	SB-221 43636.36458 SB-221(15-20)20190620 15 - 20 ft	SB-221 43636.36458 SB-221(19)20190620 19 - 19 ft	SB-222 43636.375 SB-222(10-15)20190620 10 - 15 ft	SB-222 43636.375 SB-222(14)20190620 14 - 14 ft	SB-222 43636.38542 SB-222(15-20)20190620 15 - 20 ft	SB-222 43636.38542 SB-222(19)20190620 19 - 19 ft	TP-200 43627.47917 TP-200 (2)20190611 2 - 2 ft	TP-200 43627.48958 TP-200 (1-6)20190611 1 - 6 ft	TP-201 43627.52083 TP-201 (4)20190611 4 - 4 ft	TP-201 43627.54167 TP-201 (1-5)20190611 1 - 5 ft	TP-202 43626.375 TP-202 (1-6)20190610 1 - 6 ft	TP-202 43626.375 TP-202 (4)20190610 4 - 4 ft	TP-202 43630.45833 TP-202 (10-15)20190614 10 - 15 ft
SVOCs (continued)																	
2-Chlorophenol	95-57-8	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
2-Methylnaphthalene	91-57-6	µg/kg	**857000**		**342000**		**1180000**		**415000**			< 1130		< 982	< 969		**170000**
2-Methylphenol	95-48-7	µg/kg	**115000**		**26400**		**88500**		**21100**			< 1130		< 982	< 969		< 714
2-Nitroaniline	88-74-4	µg/kg	< 39200		< 19500		< 38200		< 18900			< 5570		< 4840	< 4770		< 3520
2-Nitrophenol	88-75-5	µg/kg	< 39200		< 19500		< 38200		< 18900			< 5570		< 4840	< 4770		< 3520
3,3'-Dichlorobenzidine	91-94-1	µg/kg	< 39200		< 19500		< 38200		< 18900			< 5570		< 4840	< 4770		< 3520
3-and 4-Methylphenol	3,4-MEPH	µg/kg	**329000**		**74800**		**238000**		**59100**			< 1130		< 982	< 969		< 714
3-Nitroaniline	99-09-2	µg/kg	< 39200		< 19500		< 38200		< 18900			< 5570		< 4840	< 4770		< 3520
4,6-Dinitro-2-methylphenol	534-52-1	µg/kg	< 79600		< 39700		< 77600		< 38300			< 11300		< 9820	< 9690		< 7140
4-Bromophenyl phenyl ether	101-55-3	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
4-Chloro-3-methylphenol	59-50-7	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
4-Chloroaniline	106-47-8	µg/kg	< 39200		< 19500		< 38200		< 18900			< 5570		< 4840	< 4770		< 3520
4-Chlorophenyl phenyl ether	7005-72-3	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
4-Nitroaniline	100-01-6	µg/kg	< 39200		< 19500		< 38200		< 18900			< 5570		< 4840	< 4770		< 3520
4-Nitrophenol	100-02-7	µg/kg	< 79600		< 39700		< 77600		< 38300			< 11300		< 9820	< 9690		< 7140
Acenaphthene	83-32-9	µg/kg	**65800**		**61800**		**95500**		**53600**			< 1130		< 982	< 969		**24700**
Acenaphthylene	208-96-8	µg/kg	**593000**		**237000**		**984000**		**192000**			< 1130		< 982	< 969		**55200**
Acetophenone	98-86-2	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
Anthracene	120-12-7	µg/kg	**803000**		**277000**		**992000**		**185000**			< 1130		**1240**	< 969		**35000**
Atrazine	1912-24-9	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
Benzaldehyde	100-52-7	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
Benzo(a)anthracene	56-55-3	µg/kg	**536000**		**215000**		**818000**		**177000**			< 1130		**2700**	**2130**		**23600**
Benzo(a)pyrene	50-32-8	µg/kg	**332000**		**146000**		**433000**		**126000**			< 1130		**2190**	**1640**		**18200**
Benzo(b)fluoranthene	205-99-2	µg/kg	**401000**		**162000**		**554000**		**141000**			< 1130		**2480**	**2030**		**16600**
Benzo(ghi)perylene	191-24-2	µg/kg	**119000**		**53300**		**191000**		**56300**			< 1130		**1250**	< 969		**5470**
Benzo(k)fluoranthene	207-08-9	µg/kg	**178000**		**90600**		**208000**		**66400**			< 1130		**1210**	**952**		**7620**
bis(2-Chloroethoxy)methane	111-91-1	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
bis(2-Chloroethyl) ether	111-44-4	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
bis(2-Ethylhexyl) phthalate	117-81-7	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		**5660**	**3880**		< 714
Butyl benzyl phthalate	85-68-7	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		**1370**	**1020**		< 714
Caprolactam	105-60-2	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
Carbazole	86-74-8	µg/kg	**367000**		**142000**		**406000**		**104000**			< 1130		< 982	< 969		**6240**
Chrysene	218-01-9	µg/kg	**460000**		**182000**		**495000**		**133000**			< 1130		**2730**	**2150**		**22700**
Dibenz(a,h)anthracene	53-70-3	µg/kg	**20800**		**9440**		**26000**		**8150**			< 1130		< 982	< 969		**1830**
Dibenzofuran	132-64-9	µg/kg	**542000**		**218000**		**604000**		**173000**			< 1130		< 982	< 969		**10100**
Diethyl phthalate	84-66-2	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
Dimethyl phthalate	131-11-3	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
Di-n-butyl phthalate	84-74-2	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
Di-n-octyl phthalate	117-84-0	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
Fluoranthene	206-44-0	µg/kg	**1310000**		**542000**		**1990000**		**552000**			**1560**		**5820**	**3970**		**45900**
Fluorene	86-73-7	µg/kg	**924000**		**360000**		**1310000**		**279000**			< 1130		< 982	< 969		**53500**
Hexachlorobenzene	118-74-1	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
Hexachlorobutadiene	87-68-3	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
Hexachlorocyclopentadiene	77-47-4	µg/kg	< 39200		< 19500		< 38200		< 18900			< 5570		< 4840	< 4770		< 3520
Hexachloroethane	67-72-1	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	**146000**		**65300**		**229000**		**66200**			< 1130		**1260**	< 969		**5870**
Isophorone	78-59-1	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
Naphthalene	91-20-3	µg/kg	**4580000**		**2180000**		**8070000**		**3850000**			< 1130		< 982	< 969		**325000**
Nitrobenzene	98-95-3	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
N-Nitroso-di-n-propylamine	621-64-7	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
N-Nitrosodiphenylamine	86-30-6	µg/kg	< 7960		< 3970		< 7760		< 3830			< 1130		< 982	< 969		< 714
Pentachlorophenol	87-86-5	µg/kg	< 79600		< 39700		< 77600		< 38300			< 11300		< 9820	< 9690		< 7140
Phenanthrene	85-01-8	µg/kg	**2180000**		**928000**		**3520000**		**974000**			< 1130		**4780**	**2280**		**121000**
Phenol	108-95-2	µg/kg	**334000**		**75700**		**317000**		**63300**			< 1130		< 982	< 969		< 714
Pyrene	129-00-0	µg/kg	**882000**		**393000**		**1560000**		**384000**			**1410**		**5320**	**3100**		**55100**
SVOCs-SPLP																	
1,4-Dichlorobenzene	106-46-7	mg/L	< 0.023		< 0.010		< 0.10		< 0.018			< 0.016		< 0.010	< 0.015		< 0.010
2,4,5-Trichlorophenol	95-95-4	mg/L	< 0.057		< 0.025		< 0.25		< 0.044			< 0.041		< 0.025	< 0.037		< 0.025
2,4,6-Trichlorophenol	88-06-2	mg/L	< 0.023		< 0.010		< 0.10		< 0.018			< 0.016		< 0.010	< 0.015		< 0.010
2,4-Dinitrotoluene	121-14-2	mg/L	< 0.023		< 0.010		< 0.10		< 0.018			< 0.016		< 0.010	< 0.015		< 0.010
2-Methylphenol	95-48-7	mg/L	**0.51**		**1.6**		**5.3**		**0.27**			< 0.016		< 0.010	< 0.015		< 0.010
3-and 4-Methylphenol	3,4-MEPH	mg/L	**1.4**		**4.0**		**13.1**		**0.70**			< 0.016		< 0.010	< 0.015		< 0.010
Hexachlorobenzene	118-74-1	mg/L	< 0.023		< 0.010		< 0.10		< 0.018			< 0.016		< 0.010	< 0.015		< 0.010
Hexachlorobutadiene	87-68-3	mg/L	< 0.023		< 0.010		< 0.10		< 0.018			< 0.016		< 0.010	< 0.015		< 0.010
Hexachloroethane	67-72-1	mg/L	< 0.023		< 0.010		< 0.10		< 0.018			< 0.016		< 0.010	< 0.015		< 0.010
Nitrobenzene	98-95-3	mg/L	< 0.023		< 0.010		< 0.10		< 0.018			< 0.016		< 0.010	< 0.015		< 0.010
Pentachlorophenol	87-86-5	mg/L	< 0.057		< 0.025		< 0.25		< 0.044			< 0.041		< 0.025	< 0.037		< 0.025
Pyridine	110-86-1	mg/L	**0.022**		**0.026**		**0.24**		**0.016**			< 0.016		< 0.010	< 0.015		< 0.010
Metals																	
Antimony	7440-36-0	mg/kg	**1.3**		**1.4**		< 3.3		< 3.3			< 5.3		< 4.6	< 4.3		< 3.3
Arsenic	7440-38-2	mg/kg	**12.8**		**14.2**		**15.7**		**9.4**			**5.6**		**11.1**	**6.7**		**4.6**
Beryllium	7440-41-7	mg/kg	**0.11**		**0.27**		**0.13**		**0.20**			**0.12**		< 0.38	**0.065**		**0.11**
Boron	7440-42-8	mg/kg	**3.7**		**9.7**		**4.5**		**11.0**			**36.1**		**30.3**	**14.6**		**6.9**
Cadmium	7440-43-9	mg/kg	**0.47**		**0.36**		**0.69**		< 0.14			**1.6**		**0.73**	**4.6**		< 0.14
Chromium	7440-47-3	mg/kg	**11.6**		**17.7**		**14.2**		**20.8**			**39.8**		**90.8**	**30.8**		**16.7**
Chromium, Hexavalent	18540-29-9	mg/kg	< 1.2		< 5.9		< 1.2		< 1.2			< 1.7		< 7.1	< 7.2		< 1.1
Chromium, Trivalent	16065-83-1	mg/kg	**11.6**		**17.7**		**14.2**		**20.8**			**39.8**		**90.8**	**30.8**		**16.7**
Cobalt	7440-48-4	mg/kg	**4.4**		**5.8**		**5.2**		**7.6**			**6.0**		**4.3**	**5.7**		**4.3**
Copper	7440-50-8	mg/kg	**83.1**		**83.3**		**397**		**40.0**			**126**		**47.9**	**250**		**22.0**

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	SB-221 43636.35417 SB-221(10-15)20190620 10 - 15 ft	SB-221 43636.35417 SB-221(14)20190620 14 - 14 ft	SB-221 43636.36458 SB-221(15-20)20190620 15 - 20 ft	SB-221 43636.36458 SB-221(19)20190620 19 - 19 ft	SB-222 43636.375 SB-222(10-15)20190620 10 - 15 ft	SB-222 43636.375 SB-222(14)20190620 14 - 14 ft	SB-222 43636.38542 SB-222(15-20)20190620 15 - 20 ft	SB-222 43636.38542 SB-222(19)20190620 19 - 19 ft	TP-200 43627.47917 TP-200 (2)20190611 2 - 2 ft	TP-200 43627.48958 TP-200 (1-6)20190611 1 - 6 ft	TP-201 43627.52083 TP-201 (4)20190611 4 - 4 ft	TP-201 43627.54167 TP-201 (1-5)20190611 1 - 5 ft	TP-202 43626.375 TP-202 (1-6)20190610 1 - 6 ft	TP-202 43626.375 TP-202 (4)20190610 4 - 4 ft	TP-202 43630.45833 TP-202 (10-15)20190614 10 - 15 ft
Metals (continued)																	
Lead	7439-92-1	mg/kg	**420**		**244**		**1440**		**207**			**706**		**374**	**1230**		**42.6**
Mercury	7439-97-6	mg/kg	**1.4**		**2.6**		**0.79**		**0.51**			**2.1**		**0.97**	**1.9**		**0.81**
Nickel	7440-02-0	mg/kg	**10.4**		**18.2**		**13.1**		**55.4**			**29.0**		**13.4**	**30.9**		**9.5**
Selenium	7782-49-2	mg/kg	**2.4**		**2.6**		**2.0**		**1.5**			**1.8**		**1.3**	**1.6**		**1.2**
Silver	7440-22-4	mg/kg	**0.11**		**0.070**		**0.091**		< 0.55			**1.1**		**0.31**	**1.5**		< 0.55
Thallium	7440-28-0	mg/kg	**1.5**		**0.61**		**0.27**		< 0.55			< 0.88		< 0.76	< 0.71		< 0.55
Tin	7440-31-5	mg/kg	**15.5**		**12.9**		**10**		**12.3**			**8.1**		**5.0**	**8.4**		**3.0**
Vanadium	7440-62-2	mg/kg	**17.1**		**25.4**		**20.9**		**28.5**			**21.8**		**15.9**	**21.5**		**22.3**
Zinc	7440-66-6	mg/kg	**271**		**249**		**582**		**180**			**910**		**365**	**708**		**67.3**
Metals-SPLP																	
Arsenic	7440-38-2	mg/L	< 0.050		< 0.050		< 0.050		< 0.050			< 0.050		< 0.050	< 0.050		< 0.050
Barium	7440-39-3	mg/L	**0.45**		**0.26**		**0.37**		**0.48**			**0.20**		**0.16**	**0.13**		**0.37**
Cadmium	7440-43-9	mg/L	< 0.012		< 0.012		< 0.012		< 0.012			< 0.012		< 0.012	**0.011**		< 0.012
Chromium	7440-47-3	mg/L	< 0.050		< 0.050		< 0.050		**0.0092**			< 0.050		**0.046**	< 0.050		< 0.050
Copper	7440-50-8	mg/L	< 0.12		< 0.12		< 0.12		< 0.12			**0.039**		**0.035**	**0.14**		< 0.12
Lead	7439-92-1	mg/L	**1.8**		< 0.025		**0.025**		**0.23**			**0.079**		**0.31**	**0.60**		< 0.025
Mercury	7439-97-6	mg/L	< 0.00020		< 0.00020		< 0.00020		< 0.00020			**0.00014**		**0.00071**	< 0.00020		**0.00032**
Nickel	7440-02-0	mg/L	**0.044**		**0.095**		**0.026**		**0.048**			**0.16**		**0.048**	**0.096**		< 0.20
Selenium	7782-49-2	mg/L	< 0.050		< 0.050		< 0.050		< 0.050			< 0.050		< 0.050	**0.038**		< 0.050
Silver	7440-22-4	mg/L	< 0.050		< 0.050		< 0.050		< 0.050			< 0.050		< 0.050	< 0.050		< 0.050
Zinc	7440-66-6	mg/L	**2.3**		**0.51**		**1.5**		**0.98**			**4.1**		**1.7**	**4.6**		**0.14**
Cyanide																	
Total Cyanide	57-12-5	mg/kg	**3.4**		**14.7**		**3.3**		**3.2**			**0.16**		**0.14**	**0.098**		**0.18**
Polychlorinated Biphenyls (PCBs)																	
Aroclor 1016	12674-11-2	µg/kg	< 39.0		< 39.3		< 377		< 37.3			< 55.0		< 95.4	< 232		< 35.0
Aroclor 1221	11104-28-2	µg/kg	< 79.2		< 79.7		< 766		< 75.7			< 112		< 194	< 472		< 71.2
Aroclor 1232	11141-16-5	µg/kg	< 39.0		< 39.3		< 377		< 37.3			< 55.0		< 95.4	< 232		< 35.0
Aroclor 1242	53469-21-9	µg/kg	**128**		< 39.3		< 377		< 37.3			**252**		**401**	< 232		**134**
Aroclor 1248	12672-29-6	µg/kg	< 39.0		< 39.3		< 377		< 37.3			< 55.0		< 95.4	< 232		< 35.0
Aroclor 1254	11097-69-1	µg/kg	< 39.0		< 39.3		< 377		< 37.3			**492**		**821**	**1120**		< 35.0
Aroclor 1260	11096-82-5	µg/kg	< 39.0		< 39.3		< 377		< 37.3			< 55.0		< 95.4	< 232		< 35.0
Aroclor 1262	37324-23-5	µg/kg	< 39.0		< 39.3		< 377		< 37.3			< 55.0		< 95.4	< 232		< 35.0
Aroclor 1268	11100-14-4	µg/kg	< 39.0		< 39.3		< 377		< 37.3			< 55.0		< 95.4	< 232		< 35.0
PCB (Total) (ppm)	CALC-PCBs	µg/kg	**128**		< 79.7		< 766		< 75.7			**744**		**1220**	**1120**		**134**
Pesticides-SPLP																	
Chlordane	57-74-9	mg/L	< 0.0020		< 0.0024		< 0.0020		< 0.0020			< 0.0020		< 0.0020	< 0.0020		< 0.0020
Endrin	72-20-8	mg/L	< 0.00020		< 0.00024		< 0.00020		< 0.00020			< 0.00020		< 0.00020	< 0.00020		< 0.00020
Gamma BHC - Lindane	58-89-9	mg/L	< 0.00010		< 0.00012		< 0.00010		< 0.00010			< 0.00010		< 0.00010	< 0.00010		< 0.00010
Heptachlor	76-44-8	mg/L	< 0.00010		< 0.00012		< 0.00010		< 0.00010			< 0.00010		< 0.00010	< 0.00010		< 0.00010
Heptachlor Epoxide	1024-57-3	mg/L	< 0.00010		< 0.00012		< 0.00010		< 0.00010			< 0.00010		< 0.00010	< 0.00010		< 0.00010
Methoxychlor	72-43-5	mg/L	< 0.0010		< 0.0012		< 0.0010		< 0.0010			< 0.0010		< 0.0010	< 0.0010		< 0.0010
Toxaphene	8001-35-2	mg/L	< 0.010		< 0.012		< 0.010		< 0.010			< 0.010		< 0.010	< 0.010		< 0.010
Herbicides-SPLP																	
2,4,5-TP (Silvex)	93-72-1	mg/L	**0.00020**		**0.00050**		**0.00030**		**0.000036**			< 0.0025		**0.0000033**	< 0.0025		**0.00015**
2,4-D	94-75-7	mg/L	**0.00010**		< 0.0050		**0.000050**		< 0.0050			**0.00017**		< 0.0050	< 0.0050		**0.00028**
Other																	
BTU	BTU	BTUs/lb.	**-1030**		**1650**		**642**		**2760**								**8500**
Cresols (total)-TCLP	1319-77-3	mg/kg															
Cyanide (Reactivity)	57-12-5-R	mg/kg	< 131		< 129		< 117		< 116			< 169		< 146	< 144		< 109
Ignitability	IGNITABILITY	mm/sec	**2.2**		**2.2**		**2.2**		**2.2**			**2.2**		**2.2**	**2.2**		**2.2**
Moisture, percent	MOIST	%		**17.7**	**22.9**	**21.8**	**14.8**	**17.7**	**13.8**	**19.6**	**26.1**	**40.8**	**33.6**	**31.8**	**30.8**	**19.0**	**8.3**
Moisture, percent	MOIST	%															
pH	PH	S.U.	**10.0**		**10.3**		**8.8**		**8.8**			**11.1**		**10.9**	**10.4**		**7.7**
Solids, Total	TSOLIDS	%	**79.6**		**90.6**		**87.1**		**77.3**								**91.4**
Sulfide (Reactivity)	18496-25-8-R	mg/kg	< 99.7		< 99.8		< 99.6		< 99.7			< 100		< 99.8	< 99.7		< 99.8
Sulfur	7704-34-9	% (w/w)	**0.285**		**0.238**		**0.286**		**0.135**			**0.703**		**1.80**	**1.54**		**0.0499**
Temperature	TEMP	deg c	**23.4**		**23.4**		**23.3**		**23.3**			**23.8**		**23.9**	**23.8**		**23.3**
Total Organic Halides	TOX	mg/kg	< 31.4		< 27.6		< 28.7		< 32.3								< 27.4

Notes:
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
BTU - British Thermal Unit
BTUs/lb. - BTUs per pounds
mm/sec - millimeters per second
S.U. - standard units
w/w - weight by weight
deg C - degrees Celsius

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	TP-202 43630.46528 TP-202 (15-20)20190614 15 - 20 ft	TP-202 43630.47222 TP-202 (20-25)20190614 20 - 25 ft	TP-202 43630.47917 TP-202 (25-30)20190614 25 - 30 ft	TP-202 43630.48611 TP-202 (30-35)20190614 30 - 35 ft	TP-202 43630.49306 TP-202 (35-40)20190614 35 - 40 ft	TP-202 43634.42708 TP-202 (6-10)20190618 6 - 10 ft	TP-202 43634.42708 TP-202 (9)20190618 9 - 9 ft	TP-203 43626.39583 TP-203 (2-5)20190610 2 - 5 ft	TP-203 43626.39583 TP-203 (4)20190610 4 - 4 ft	TP-204 43635.375 TP-204(1-6)20190619 1 - 6 ft	TP-204 43635.375 TP-204(5)20190619 5 - 5 ft	TP-205 43635.51042 TP-205(3-7)20190619 3 - 7 ft	TP-205 43635.51042 TP-205(6)20190619 6 - 6 ft	TP-206 43629.58333 TP-206 (1-6)20190613 1 - 6 ft	TP-206 43629.58333 TP-206 (4)20190613 4 - 4 ft
Hydrocarbons																	
Diesel Range Organics C10-C28	DRO(C10-C28)	mg/kg	**3120**	**6710**	**5000**	**3790**	**9620**	**8080**		**1720**		**16500**		**20000**		**342**	
Gasoline Range Organics C6-C10	DRO(C6-C10)	µg/kg							**887000**		< 116		**131000**		**36700**		**9070**
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	71-55-6	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
1,1,2,2-Tetrachloroethane	79-34-5	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
1,1,2-Trichloroethane	79-00-5	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
1,1-Dichloroethane	75-34-3	µg/kg							< 1130		< 6.7		**842**		< 316		< 2.0
1,1-Dichloroethene	75-35-4	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
1,2,3-Trichlorobenzene	87-61-6	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
1,2,4-Trichlorobenzene	120-82-1	µg/kg							< 1130		< 6.7		< 635		< 316		**1.3**
1,2-Dibromo-3-chloropropane	96-12-8	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
1,2-Dibromoethane	106-93-4	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
1,2-Dichlorobenzene	95-50-1	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
1,2-Dichloroethane	107-06-2	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
1,2-Dichloropropane	78-87-5	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
1,3-Dichlorobenzene	541-73-1	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
1,4-Dioxane	123-91-1	µg/kg							< 28200		< 167		< 15900		**2950**		< 49.9
2-Butanone	78-93-3	µg/kg							< 1130		**11.8**		< 635		< 316		**5.6**
2-Hexanone	591-78-6	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
4-Methyl-2-pentanone	108-10-1	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Acetone	67-64-1	µg/kg							< 1130		**174**		< 635		< 316		**111**
Benzene	71-43-2	µg/kg							**23200**		< 6.7		**12300**		**1850**		**10.5**
Bromochloromethane	74-97-5	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Bromodichloromethane	75-27-4	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Bromoform	75-25-2	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Bromomethane	74-83-9	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Carbon disulfide	75-15-0	µg/kg							< 1130		**5.2**		**493**		< 316		**38.4**
Carbon tetrachloride	56-23-5	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Chlorobenzene	108-90-7	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Chloroethane	75-00-3	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Chloroform	67-66-3	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Chloromethane	74-87-3	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
cis-1,2-Dichloroethene	156-59-2	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
cis-1,3-Dichloropropene	10061-01-5	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Cyclohexane	110-82-7	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Dibromochloromethane	124-48-1	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Dichlorodifluoromethane	75-71-8	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Ethylbenzene	100-41-4	µg/kg							**110000**		< 6.7		**13100**		**3680**		**11.7**
Isopropylbenzene	98-82-8	µg/kg							**14400**		< 6.7		**455**		**345**		**14.1**
m+p-Xylene	1330-20-7-M,P	µg/kg							**101000**		< 13.4		**20300**		**849**		**21.0**
Methyl acetate	79-20-9	µg/kg							< 1130		< 6.7		**790**		**223**		< 2.0
Methyl tert-butyl ether	1634-04-4	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Methylcyclohexane	108-87-2	µg/kg							< 1130		< 6.7		< 635		< 316		**4.4**
Methylene chloride	75-09-2	µg/kg							< 1130		< 6.7		< 635		< 316		**8.1**
o-Xylene	95-47-6	µg/kg							**45100**		< 6.7		**9780**		**1860**		**12.1**
Styrene	100-42-5	µg/kg							**1580**		< 6.7		**10100**		**203**		< 2.0
Tetrachloroethene	127-18-4	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Toluene	108-88-3	µg/kg							**56200**		< 6.7		**19400**		**407**		**2.2**
trans-1,2-Dichloroethene	156-60-5	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
trans-1,3-Dichloropropene	10061-02-6	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Trichloroethene	79-01-6	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Trichlorofluoromethane	75-69-4	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Vinyl chloride	75-01-4	µg/kg							< 1130		< 6.7		< 635		< 316		< 2.0
Xylenes (total)	1330-20-7	µg/kg							**146000**		< 13.4		**30100**		**2710**		**33.1**
VOCs-Synthetic Precipitation Leaching Procedure (SPLP)																	
1,1-Dichloroethene	75-35-4	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
1,2-Dichloroethane	107-06-2	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
2-Butanone	78-93-3	mg/L	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025		< 0.025		< 0.025		< 0.025		< 0.025	
Benzene	71-43-2	mg/L	**0.0095**	**0.012**	**0.0066**	< 0.010	< 0.010	**0.62**		**0.0025**		**0.032**		**0.014**		< 0.010	
Carbon tetrachloride	56-23-5	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
Chlorobenzene	108-90-7	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
Chloroform	67-66-3	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
Tetrachloroethene	127-18-4	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
Trichloroethene	79-01-6	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
Vinyl chloride	75-01-4	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010		< 0.010		< 0.010		< 0.010	
Semivolatile Organic Compounds (SVOCs)																	
1,1'-Biphenyl	92-52-4	µg/kg	**4880**	**28200**	**21200**	**12100**	**32400**	**20500**		< 837		**15000**		**21200**		< 794	
1,2,4,5-Tetrachlorobenzene	95-94-3	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
2,2'-oxybis(1-Chloropropane)	108-60-1	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
2,3,4,6-Tetrachlorophenol	58-90-2	µg/kg	< 3880	< 3470	< 3510	< 3450	< 3390	< 3840		< 4120		< 7920		< 5530		< 3910	
2,4,5-Trichlorophenol	95-95-4	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
2,4,6-Trichlorophenol	88-06-2	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
2,4-Dichlorophenol	120-83-2	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
2,4-Dimethylphenol	105-67-9	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		**1760**		< 1120		< 794	
2,4-Dinitrophenol	51-28-5	µg/kg	< 7870	< 7050	< 7120	< 7000	< 6880	< 7800		< 8370		< 16100		< 11200		< 7940	
2,4-Dinitrotoluene	121-14-2	µg/kg	< 3880	< 3470	< 3510	< 3450	< 3390	< 3840		< 4120		< 7920		< 5530		< 3910	
2,6-Dinitrotoluene	606-20-2	µg/kg	< 3880	< 3470	< 3510	< 3450	< 3390	< 3840		< 4120		< 7920		< 5530		< 3910	
2-Chloronaphthalene	91-58-7	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	TP-202 43630.46528 TP-202 (15-20)20190614 15 - 20 ft	TP-202 43630.47222 TP-202 (20-25)20190614 20 - 25 ft	TP-202 43630.47917 TP-202 (25-30)20190614 25 - 30 ft	TP-202 43630.48611 TP-202 (30-35)20190614 30 - 35 ft	TP-202 43630.49306 TP-202 (35-40)20190614 35 - 40 ft	TP-202 43634.42708 TP-202 (6-10)20190618 6 - 10 ft	TP-202 43634.42708 TP-202 (9)20190618 9 - 9 ft	TP-203 43626.39583 TP-203 (2-5)20190610 2 - 5 ft	TP-203 43626.39583 TP-203 (4)20190610 4 - 4 ft	TP-204 43635.375 TP-204(1-6)20190619 1 - 6 ft	TP-204 43635.375 TP-204(5)20190619 5 - 5 ft	TP-205 43635.51042 TP-205(3-7)20190619 3 - 7 ft	TP-205 43635.51042 TP-205(6)20190619 6 - 6 ft	TP-206 43629.58333 TP-206 (1-6)20190613 1 - 6 ft	TP-206 43629.58333 TP-206 (4)20190613 4 - 4 ft
SVOCs (continued)																	
2-Chlorophenol	95-57-8	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
2-Methylnaphthalene	91-57-6	µg/kg	**20600**	**337000**	**265000**	**133000**	**295000**	**123000**		< 837		**109000**		**77900**		**2090**	
2-Methylphenol	95-48-7	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
2-Nitroaniline	88-74-4	µg/kg	< 3880	< 3470	< 3510	< 3450	< 3390	< 3840		< 4120		< 7920		< 5530		< 3910	
2-Nitrophenol	88-75-5	µg/kg	< 3880	< 3470	< 3510	< 3450	< 3390	< 3840		< 4120		< 7920		< 5530		< 3910	
3,3'-Dichlorobenzidine	91-94-1	µg/kg	< 3880	< 3470	< 3510	< 3450	< 3390	< 3840		< 4120		< 7920		< 5530		< 3910	
3-and 4-Methylphenol	3,4-MEPH	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		**1810**		< 1120		< 794	
3-Nitroaniline	99-09-2	µg/kg	< 3880	< 3470	< 3510	< 3450	< 3390	< 3840		< 4120		< 7920		< 5530		< 3910	
4,6-Dinitro-2-methylphenol	534-52-1	µg/kg	< 7870	< 7050	< 7120	< 7000	< 6880	< 7800		< 8370		< 16100		< 11200		< 7940	
4-Bromophenyl phenyl ether	101-55-3	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
4-Chloro-3-methylphenol	59-50-7	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
4-Chloroaniline	106-47-8	µg/kg	< 3880	< 3470	< 3510	< 3450	< 3390	< 3840		< 4120		< 7920		< 5530		< 3910	
4-Chlorophenyl phenyl ether	7005-72-3	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
4-Nitroaniline	100-01-6	µg/kg	< 3880	< 3470	< 3510	< 3450	< 3390	< 3840		< 4120		< 7920		< 5530		< 3910	
4-Nitrophenol	100-02-7	µg/kg	< 7870	< 7050	< 7120	< 7000	< 6880	< 7800		< 8370		< 16100		< 11200		< 7940	
Acenaphthene	83-32-9	µg/kg	**4530**	**75100**	**38300**	**43400**	**144000**	**49600**		< 837		**36900**		**113000**		**1070**	
Acenaphthylene	208-96-8	µg/kg	**16800**	**104000**	**86400**	**18700**	**24200**	**18500**		< 837		**25900**		**20400**		< 794	
Acetophenone	98-86-2	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
Anthracene	120-12-7	µg/kg	**9240**	**67700**	**43700**	**24100**	**63900**	**47800**		< 837		**52200**		**30400**		**1680**	
Atrazine	1912-24-9	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
Benzaldehyde	100-52-7	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
Benzo(a)anthracene	56-55-3	µg/kg	**5920**	**43000**	**29900**	**17000**	**39400**	**39200**		**1870**		**51000**		**20100**		**3180**	
Benzo(a)pyrene	50-32-8	µg/kg	**3910**	**31800**	**22000**	**12100**	**28300**	**29100**		**1600**		**38000**		**14200**		**2430**	
Benzo(b)fluoranthene	205-99-2	µg/kg	**3270**	**30800**	**19100**	**10600**	**26600**	**28600**		**1890**		**46700**		**17600**		**3020**	
Benzo(ghi)perylene	191-24-2	µg/kg	**1290**	**8780**	**5780**	**3310**	**7590**	**10700**		**1320**		**17400**		**7370**		**1270**	
Benzo(k)fluoranthene	207-08-9	µg/kg	**1340**	**13600**	**7220**	**4420**	**11600**	**12700**		**761**		**15700**		**6720**		**1430**	
bis(2-Chloroethoxy)methane	111-91-1	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
bis(2-Chloroethyl) ether	111-44-4	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
bis(2-Ethylhexyl) phthalate	117-81-7	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		**21500**		< 1120		**8440**	
Butyl benzyl phthalate	85-68-7	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		**148000**	
Caprolactam	105-60-2	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
Carbazole	86-74-8	µg/kg	**1580**	**9430**	**3880**	**2780**	**1920**	**14400**		< 837		**26000**		**16900**		**932**	
Chrysene	218-01-9	µg/kg	**5640**	**36600**	**27100**	**15200**	**38300**	**32500**		**1740**		**42200**		**17400**		**2800**	
Dibenz(a,h)anthracene	53-70-3	µg/kg	**443**	**2740**	**1780**	**1170**	**2260**	**3550**		< 837		**2540**		< 1120		< 794	
Dibenzofuran	132-64-9	µg/kg	**2270**	**17400**	**10000**	**5890**	**13000**	**24300**		< 837		**41600**		**54800**		**928**	
Diethyl phthalate	84-66-2	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
Dimethyl phthalate	131-11-3	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
Di-n-butyl phthalate	84-74-2	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
Di-n-octyl phthalate	117-84-0	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
Fluoranthene	206-44-0	µg/kg	**11300**	**96600**	**55000**	**31200**	**80400**	**52400**		**4090**		**120000**		**49700**		**7440**	
Fluorene	86-73-7	µg/kg	**12800**	**117000**	**80300**	**37100**	**111000**	**44500**		< 837		**68900**		**73900**		**1680**	
Hexachlorobenzene	118-74-1	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
Hexachlorobutadiene	87-68-3	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
Hexachlorocyclopentadiene	77-47-4	µg/kg	< 3880	< 3470	< 3510	< 3450	< 3390	< 3840		< 4120		< 7920		< 5530		< 3910	
Hexachloroethane	67-72-1	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	**1350**	**9420**	**6120**	**3450**	**7840**	**11300**		**1260**		**20100**		**8480**		**1370**	
Isophorone	78-59-1	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
Naphthalene	91-20-3	µg/kg	**11000**	**780000**	**569000**	**289000**	**177000**	**315000**		< 837		**4490000**		**957000**		**17800**	
Nitrobenzene	98-95-3	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
N-Nitroso-di-n-propylamine	621-64-7	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
N-Nitrosodiphenylamine	86-30-6	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
Pentachlorophenol	87-86-5	µg/kg	< 7870	< 7050	< 7120	< 7000	< 6880	< 7800		< 8370		< 16100		< 11200		< 7940	
Phenanthrene	85-01-8	µg/kg	**35600**	**265000**	**179000**	**92600**	**242000**	**111000**		**3340**		**227000**		**165000**		**7270**	
Phenol	108-95-2	µg/kg	< 787	< 705	< 712	< 700	< 688	< 780		< 837		< 1610		< 1120		< 794	
Pyrene	129-00-0	µg/kg	**16100**	**122000**	**81000**	**40300**	**106000**	**51300**		**3450**		**91100**		**32100**		**5760**	
SVOCs-SPLP																	
1,4-Dichlorobenzene	106-46-7	mg/L	< 0.010	< 0.014	< 0.010	< 0.010	< 0.010	< 0.010		< 0.013		< 0.015		< 0.010		< 0.5	
2,4,5-Trichlorophenol	95-95-4	mg/L	< 0.025	< 0.036	< 0.025	< 0.025	< 0.025	< 0.025		< 0.032		< 0.037		< 0.025		< 5	
2,4,6-Trichlorophenol	88-06-2	mg/L	< 0.010	< 0.014	< 0.010	< 0.010	< 0.010	< 0.010		< 0.013		< 0.015		< 0.010		< 0.1	
2,4-Dinitrotoluene	121-14-2	mg/L	< 0.010	< 0.014	< 0.010	< 0.010	< 0.010	< 0.010		< 0.013		< 0.015		< 0.010		< 0.1	
2-Methylphenol	95-48-7	mg/L	< 0.010	< 0.014	< 0.010	< 0.010	< 0.010	**0.0069**		< 0.013		**0.018**		< 0.010		< 2	
3-and 4-Methylphenol	3,4-MEPH	mg/L	< 0.010	< 0.014	< 0.010	< 0.010	< 0.010	**0.0058**		< 0.013		**0.020**		< 0.010		< 2	
Hexachlorobenzene	118-74-1	mg/L	< 0.010	< 0.014	< 0.010	< 0.010	< 0.010	< 0.010		< 0.013		< 0.015		< 0.010		< 0.1	
Hexachlorobutadiene	87-68-3	mg/L	< 0.010	< 0.014	< 0.010	< 0.010	< 0.010	< 0.010		< 0.013		< 0.015		< 0.010		< 0.1	
Hexachloroethane	67-72-1	mg/L	< 0.010	< 0.014	< 0.010	< 0.010	< 0.010	< 0.010		< 0.013		< 0.015		< 0.010		< 0.2	
Nitrobenzene	98-95-3	mg/L	< 0.010	< 0.014	< 0.010	< 0.010	< 0.010	< 0.010		< 0.013		< 0.015		< 0.010		< 0.1	
Pentachlorophenol	87-86-5	mg/L	< 0.025	< 0.036	< 0.025	< 0.025	< 0.025	< 0.025		< 0.032		< 0.037		< 0.025		< 5	
Pyridine	110-86-1	mg/L	< 0.010	< 0.014	< 0.010	< 0.010	< 0.010	< 0.010		< 0.013		< 0.015		< 0.010		< 0.25	
Metals																	
Antimony	7440-36-0	mg/kg	< 3.4	< 3.5	< 3.1	< 3.3	< 3.1	< 3.3		< 3.5		**0.68**		**0.96**		< 3.7	
Arsenic	7440-38-2	mg/kg	**6.7**	**4.3**	**3.5**	**2.7**	**0.90**	**3.6**		**6.9**		**12.9**		**37.1**		**17.3**	
Beryllium	7440-41-7	mg/kg	**0.21**	**0.063**	< 0.26	< 0.27	< 0.26	< 0.28		**0.33**		**0.22**		**0.16**		**0.089**	
Boron	7440-42-8	mg/kg	**6.8**	**5.4**	**6.4**	**2.7**	**0.84**	**5.4**		**15.6**		**8.2**		**5.3**		**18.1**	
Cadmium	7440-43-9	mg/kg	**0.32**	< 0.15	< 0.13	< 0.14	< 0.13	< 0.14		**0.76**		**0.19**		**1.0**		**1.5**	
Chromium	7440-47-3	mg/kg	**15.6**	**15.6**	**15.8**	**14.7**	**6.4**	**19.2**		**29.8**		**16.8**		**3.6**		**24.3**	
Chromium, Hexavalent	18540-29-9	mg/kg	< 1.2	< 1.1	< 1.1	< 1.1	< 1.0	< 1.2		< 6.2		< 1.2		< 1.7		< 1.2	
Chromium, Trivalent	16065-83-1	mg/kg	**15.6**	**15.6**	**15.8**	**14.7**	**6.4**	**19.2**		**29.8**		**16.8**		**3.6**		**24.3**	
Cobalt	7440-48-4	mg/kg	**4.4**	**5.0**	**5.8**	**5.8**	**2.0**	**6.3**		**5.6**		**7.4**		**2.8**		**7.0**	
Copper	7440-50-8	mg/kg	**33.5**	**19.9**	**20.0**	**22.4**	**6.0**	**20.4**		**160**		**67.2**		**31.7**		**71.4**	

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	TP-202 43630.46528 TP-202 (15-20)20190614 15 - 20 ft	TP-202 43630.47222 TP-202 (20-25)20190614 20 - 25 ft	TP-202 43630.47917 TP-202 (25-30)20190614 25 - 30 ft	TP-202 43630.48611 TP-202 (30-35)20190614 30 - 35 ft	TP-202 43630.49306 TP-202 (35-40)20190614 35 - 40 ft	TP-202 43634.42708 TP-202 (6-10)20190618 6 - 10 ft	TP-202 43634.42708 TP-202 (9)20190618 9 - 9 ft	TP-203 43626.39583 TP-203 (2-5)20190610 2 - 5 ft	TP-203 43626.39583 TP-203 (4)20190610 4 - 4 ft	TP-204 43635.375 TP-204(1-6)20190619 1 - 6 ft	TP-204 43635.375 TP-204(5)20190619 5 - 5 ft	TP-205 43635.51042 TP-205(3-7)20190619 3 - 7 ft	TP-205 43635.51042 TP-205(6)20190619 6 - 6 ft	TP-206 43629.58333 TP-206 (1-6)20190613 1 - 6 ft	TP-206 43629.58333 TP-206 (4)20190613 4 - 4 ft
Metals (continued)																	
Lead	7439-92-1	mg/kg	**15.8**	**24.9**	**13.9**	**25.4**	**1.5**	**10.6**		**595**		**309**		**75.5**		**231**	
Mercury	7439-97-6	mg/kg	**0.41**	**0.42**	**0.069**	**0.18**	< 0.040	**0.46**		**0.88**		**0.83**		**0.43**		**0.43**	
Nickel	7440-02-0	mg/kg	**6.5**	**9.2**	**10.8**	**9.4**	**4.6**	**10.6**		**21.1**		**18.9**		**9.2**		**27.7**	
Selenium	7782-49-2	mg/kg	**1.7**	**1.1**	**1.2**	**1.5**	**0.48**	**1.0**		**1.4**		**2.1**		**3.3**		**1.7**	
Silver	7440-22-4	mg/kg	< 0.56	< 0.58	< 0.51	< 0.54	< 0.52	< 0.55		**0.13**		**0.096**		**0.071**		**0.65**	
Thallium	7440-28-0	mg/kg	< 0.56	< 0.58	< 0.51	< 0.54	< 0.52	< 0.55		< 0.59		< 0.59		**0.94**		< 0.61	
Tin	7440-31-5	mg/kg	**0.84**	**2.0**	**0.63**	**1.7**	**0.57**	**0.71**		**8.8**		**10.3**		**3.3**		**7.2**	
Vanadium	7440-62-2	mg/kg	**24.4**	**22.0**	**25.1**	**21.2**	**7.9**	**28.8**		**43.3**		**33.7**		**6.5**		**28.1**	
Zinc	7440-66-6	mg/kg	**31.8**	**60.4**	**28.5**	**37.9**	**11.5**	**38.6**		**532**		**254**		**199**		**325**	
Metals-SPLP																	
Arsenic	7440-38-2	mg/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050		< 0.050		< 0.050		**0.058**		< 0.050	
Barium	7440-39-3	mg/L	**0.39**	**0.37**	**0.34**	**0.23**	**0.15**	**0.26**		**0.20**		**0.79**		**0.25**		**0.63**	
Cadmium	7440-43-9	mg/L	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012		< 0.012		< 0.012		< 0.012		< 0.012	
Chromium	7440-47-3	mg/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050		**0.010**		< 0.050		< 0.050		< 0.050	
Copper	7440-50-8	mg/L	< 0.12	< 0.12	< 0.12	**0.031**	< 0.12	< 0.12		**0.070**		< 0.12		**0.031**		< 0.12	
Lead	7439-92-1	mg/L	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025		**0.10**		**0.092**		< 0.025		**0.024**	
Mercury	7439-97-6	mg/L	< 0.00020	**0.00089**	< 0.00020	**0.00037**	< 0.00020	**0.0015**		< 0.00020		< 0.00020		< 0.00020		< 0.00020	
Nickel	7440-02-0	mg/L	< 0.20	< 0.20	**0.034**	< 0.20	< 0.20	< 0.20		**0.079**		**0.056**		**0.022**		**0.12**	
Selenium	7782-49-2	mg/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050		**0.043**		< 0.050		< 0.050		**0.039**	
Silver	7440-22-4	mg/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050		< 0.050		< 0.050		< 0.050		< 0.050	
Zinc	7440-66-6	mg/L	**0.068**	**0.24**	**0.071**	**0.20**	**0.40**	**0.14**		**1.7**		**1.6**		**0.68**		**0.69**	
Cyanide																	
Total Cyanide	57-12-5	mg/kg	**8.4**	**0.13**	**0.16**	**0.18**	**0.15**	**0.18**		**0.15**		**0.60**		**0.27**		**0.19**	
Polychlorinated Biphenyls (PCBs)																	
Aroclor 1016	12674-11-2	µg/kg	< 38.2	< 35.5	< 34.9	< 35.0	< 34.1	< 39.1		< 40.4		< 394		< 55.3		< 38.2	
Aroclor 1221	11104-28-2	µg/kg	< 77.5	< 72.0	< 70.9	< 71.0	< 69.3	< 79.5		< 82.1		< 799		< 112		< 77.6	
Aroclor 1232	11141-16-5	µg/kg	< 38.2	< 35.5	< 34.9	< 35.0	< 34.1	< 39.1		< 40.4		< 394		< 55.3		< 38.2	
Aroclor 1242	53469-21-9	µg/kg	< 38.2	< 35.5	< 34.9	< 35.0	< 34.1	< 39.1		< 40.4		**3130**		< 55.3		**417**	
Aroclor 1248	12672-29-6	µg/kg	< 38.2	< 35.5	< 34.9	< 35.0	< 34.1	< 39.1		< 40.4		< 394		< 55.3		< 38.2	
Aroclor 1254	11097-69-1	µg/kg	< 38.2	< 35.5	< 34.9	< 35.0	< 34.1	< 39.1		< 40.4		< 394		< 55.3		**268**	
Aroclor 1260	11096-82-5	µg/kg	< 38.2	< 35.5	< 34.9	< 35.0	< 34.1	< 39.1		< 40.4		< 394		< 55.3		< 38.2	
Aroclor 1262	37324-23-5	µg/kg	< 38.2	< 35.5	< 34.9	< 35.0	< 34.1	< 39.1		< 40.4		< 394		< 55.3		< 38.2	
Aroclor 1268	11100-14-4	µg/kg	< 38.2	< 35.5	< 34.9	< 35.0	< 34.1	< 39.1		< 40.4		< 394		< 55.3		< 38.2	
PCB (Total) (ppm)	CALC-PCBs	µg/kg	< 77.5	< 72.0	< 70.9	< 71.0	< 69.3	< 79.5		< 82.1		**3130**		< 112		**686**	
Pesticides-SPLP																	
Chlordane	57-74-9	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020		< 0.0020		< 0.0020		< 0.0020		< 0.001	
Endrin	72-20-8	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020		< 0.00020		< 0.00020		< 0.00020		**0.0000063**	
Gamma BHC - Lindane	58-89-9	mg/L	**0.00014**	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010		< 0.00010		< 0.00010		< 0.00010		**0.000033**	
Heptachlor	76-44-8	mg/L	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010		< 0.00010		< 0.00010		< 0.00010		**0.0000028**	
Heptachlor Epoxide	1024-57-3	mg/L	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010		< 0.00010		< 0.00010		< 0.00010		**0.000002**	
Methoxychlor	72-43-5	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010		< 0.0010		< 0.0010		< 0.0010		< 0.001	
Toxaphene	8001-35-2	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010		< 0.010		< 0.010		< 0.002	
Herbicides-SPLP																	
2,4,5-TP (Silvex)	93-72-1	mg/L	**0.0019**	**0.00025**	< 0.0025	**0.00080**	**0.00029**	**0.00019**		< 0.0025		**0.00019**		**0.00035**		**0.000071**	
2,4-D	94-75-7	mg/L	< 0.0050	< 0.0050	**0.00019**	**0.00085**	**0.0000074**	< 0.0050		< 0.0050		< 0.0050		< 0.0050		**0.00016**	
Other																	
BTU	BTU	BTUs/lb.	**7840**	**7660**	**7960**	**8850**	**8810**	**5850**				**2050**		**8400**		**8510**	
Cresols (total)-TCLP	1319-77-3	mg/kg															
Cyanide (Reactivity)	57-12-5-R	mg/kg	< 119	< 108	< 107	< 107	< 104	< 119		< 124		< 121		< 162		< 118	
Ignitability	IGNITABILITY	mm/sec	**2.2**	**2.2**	**2.2**	**2.2**	**2.2**	**2.2**		**2.2**		**2.2**		**2.2**		**2.2**	
Moisture, percent	MOIST	%	**16.0**	**7.7**	**6.5**	**6.9**	**4.0**	**16.4**	**17.7**	**19.9**	**22.5**	**17.2**	**17.4**	**40.7**	**40.7**	**15.6**	**17.4**
Moisture, percent	MOIST	%														**11.0**	
pH	PH	S.U.	**7.6**	**8.3**	**9.0**	**7.5**	**7.6**	**8.0**		**9.7**		**7.9**		**7.4**		**7.3**	
Solids, Total	TSOLIDS	%	**84.7**	**91.4**	**93.6**	**91.1**	**95.9**	**85.1**				**83.9**		**64.3**		**81.6**	
Sulfide (Reactivity)	18496-25-8-R	mg/kg	< 99.9	< 99.5	< 99.8	< 99.8	< 99.5	< 99.5		< 99.6		< 99.5		< 99.6		< 99.7	
Sulfur	7704-34-9	% (w/w)	**0.162**	**0.0336**	< 0.020	**0.0364**	**0.155**	**0.196**		**1.25**		**0.717**		**0.313**		**0.632**	
Temperature	TEMP	deg c	**23.3**	**23.3**	**23.3**	**23.3**	**23.3**	**23.3**		**23.8**		**23.5**		**23.5**		**23.7**	
Total Organic Halides	TOX	mg/kg	< 29.5	< 27.3	< 26.7	< 27.4	< 26.1	< 29.4				< 29.8		< 38.9		**310**	

Notes:
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
BTU - British Thermal Unit
BTUs/lb. - BTUs per pounds
mm/sec - millimeters per second
S.U. - standard units
w/w - weight by weight
deg C - degrees Celsius

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	TP-207 43636.52083 TP-207 (1-6)20190620 1 - 6 ft	TP-207 43636.52083 TP-207 (5)20190620 5 - 5 ft
Hydrocarbons				
Diesel Range Organics C10-C28	DRO(C10-C28)	mg/kg	**23800**	
Gasoline Range Organics C6-C10	DRO(C6-C10)	µg/kg		**412000**
Volatile Organic Compounds (VOCs)				
1,1,1-Trichloroethane	71-55-6	µg/kg		< 650
1,1,2,2-Tetrachloroethane	79-34-5	µg/kg		< 650
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/kg		< 650
1,1,2-Trichloroethane	79-00-5	µg/kg		< 650
1,1-Dichloroethane	75-34-3	µg/kg		< 650
1,1-Dichloroethene	75-35-4	µg/kg		< 650
1,2,3-Trichlorobenzene	87-61-6	µg/kg		< 650
1,2,4-Trichlorobenzene	120-82-1	µg/kg		< 650
1,2-Dibromo-3-chloropropane	96-12-8	µg/kg		< 650
1,2-Dibromoethane	106-93-4	µg/kg		< 650
1,2-Dichlorobenzene	95-50-1	µg/kg		< 650
1,2-Dichloroethane	107-06-2	µg/kg		< 650
1,2-Dichloropropane	78-87-5	µg/kg		< 650
1,3-Dichlorobenzene	541-73-1	µg/kg		< 650
1,4-Dioxane	123-91-1	µg/kg		< 16300
2-Butanone	78-93-3	µg/kg		< 650
2-Hexanone	591-78-6	µg/kg		< 650
4-Methyl-2-pentanone	108-10-1	µg/kg		< 650
Acetone	67-64-1	µg/kg		< 650
Benzene	71-43-2	µg/kg		**4870**
Bromochloromethane	74-97-5	µg/kg		< 650
Bromodichloromethane	75-27-4	µg/kg		< 650
Bromoform	75-25-2	µg/kg		< 650
Bromomethane	74-83-9	µg/kg		< 650
Carbon disulfide	75-15-0	µg/kg		**803**
Carbon tetrachloride	56-23-5	µg/kg		< 650
Chlorobenzene	108-90-7	µg/kg		< 650
Chloroethane	75-00-3	µg/kg		< 650
Chloroform	67-66-3	µg/kg		< 650
Chloromethane	74-87-3	µg/kg		< 650
cis-1,2-Dichloroethene	156-59-2	µg/kg		< 650
cis-1,3-Dichloropropene	10061-01-5	µg/kg		< 650
Cyclohexane	110-82-7	µg/kg		< 650
Dibromochloromethane	124-48-1	µg/kg		< 650
Dichlorodifluoromethane	75-71-8	µg/kg		< 650
Ethylbenzene	100-41-4	µg/kg		**39800**
Isopropylbenzene	98-82-8	µg/kg		**3520**
m+p-Xylene	1330-20-7-M,P	µg/kg		**44100**
Methyl acetate	79-20-9	µg/kg		**572**
Methyl tert-butyl ether	1634-04-4	µg/kg		< 650
Methylcyclohexane	108-87-2	µg/kg		< 650
Methylene chloride	75-09-2	µg/kg		< 650
o-Xylene	95-47-6	µg/kg		**22300**
Styrene	100-42-5	µg/kg		**8030**
Tetrachloroethene	127-18-4	µg/kg		< 650
Toluene	108-88-3	µg/kg		**21800**
trans-1,2-Dichloroethene	156-60-5	µg/kg		< 650
trans-1,3-Dichloropropene	10061-02-6	µg/kg		< 650
Trichloroethene	79-01-6	µg/kg		< 650
Trichlorofluoromethane	75-69-4	µg/kg		< 650
Vinyl chloride	75-01-4	µg/kg		< 650
Xylenes (total)	1330-20-7	µg/kg		**66400**
VOCs-Synthetic Precipitation Leaching Procedure (SPLP)				
1,1-Dichloroethene	75-35-4	mg/L	< 0.010	
1,2-Dichloroethane	107-06-2	mg/L	< 0.010	
2-Butanone	78-93-3	mg/L	< 0.025	
Benzene	71-43-2	mg/L	**0.032**	
Carbon tetrachloride	56-23-5	mg/L	< 0.010	
Chlorobenzene	108-90-7	mg/L	< 0.010	
Chloroform	67-66-3	mg/L	< 0.010	
Tetrachloroethene	127-18-4	mg/L	< 0.010	
Trichloroethene	79-01-6	mg/L	< 0.010	
Vinyl chloride	75-01-4	mg/L	< 0.010	
Semivolatile Organic Compounds (SVOCs)				
1,1'-Biphenyl	92-52-4	µg/kg	**34300**	
1,2,4,5-Tetrachlorobenzene	95-94-3	µg/kg	< 1540	
2,2'-oxybis(1-Chloropropane)	108-60-1	µg/kg	< 1540	
2,3,4,6-Tetrachlorophenol	58-90-2	µg/kg	< 7600	
2,4,5-Trichlorophenol	95-95-4	µg/kg	< 1540	
2,4,6-Trichlorophenol	88-06-2	µg/kg	< 1540	
2,4-Dichlorophenol	120-83-2	µg/kg	< 1540	
2,4-Dimethylphenol	105-67-9	µg/kg	< 1540	
2,4-Dinitrophenol	51-28-5	µg/kg	< 15400	
2,4-Dinitrotoluene	121-14-2	µg/kg	< 7600	
2,6-Dinitrotoluene	606-20-2	µg/kg	< 7600	
2-Chloronaphthalene	91-58-7	µg/kg	< 1540	

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	TP-207 43636.52083 TP-207 (1-6)20190620 1 - 6 ft	TP-207 43636.52083 TP-207 (5)20190620 5 - 5 ft
SVOCs (continued)				
2-Chlorophenol	95-57-8	µg/kg	< 1540	
2-Methylnaphthalene	91-57-6	µg/kg	**363000**	
2-Methylphenol	95-48-7	µg/kg	< 1540	
2-Nitroaniline	88-74-4	µg/kg	< 7600	
2-Nitrophenol	88-75-5	µg/kg	< 7600	
3,3'-Dichlorobenzidine	91-94-1	µg/kg	< 7600	
3-and 4-Methylphenol	3,4-MEPH	µg/kg	< 1540	
3-Nitroaniline	99-09-2	µg/kg	< 7600	
4,6-Dinitro-2-methylphenol	534-52-1	µg/kg	< 15400	
4-Bromophenyl phenyl ether	101-55-3	µg/kg	< 1540	
4-Chloro-3-methylphenol	59-50-7	µg/kg	< 1540	
4-Chloroaniline	106-47-8	µg/kg	< 7600	
4-Chlorophenyl phenyl ether	7005-72-3	µg/kg	< 1540	
4-Nitroaniline	100-01-6	µg/kg	< 7600	
4-Nitrophenol	100-02-7	µg/kg	< 15400	
Acenaphthene	83-32-9	µg/kg	**69200**	
Acenaphthylene	208-96-8	µg/kg	**104000**	
Acetophenone	98-86-2	µg/kg	< 1540	
Anthracene	120-12-7	µg/kg	**81400**	
Atrazine	1912-24-9	µg/kg	< 1540	
Benzaldehyde	100-52-7	µg/kg	< 1540	
Benzo(a)anthracene	56-55-3	µg/kg	**59100**	
Benzo(a)pyrene	50-32-8	µg/kg	**47100**	
Benzo(b)fluoranthene	205-99-2	µg/kg	**45100**	
Benzo(ghi)perylene	191-24-2	µg/kg	**15900**	
Benzo(k)fluoranthene	207-08-9	µg/kg	**20600**	
bis(2-Chloroethoxy)methane	111-91-1	µg/kg	< 1540	
bis(2-Chloroethyl) ether	111-44-4	µg/kg	< 1540	
bis(2-Ethylhexyl) phthalate	117-81-7	µg/kg	**5520**	
Butyl benzyl phthalate	85-68-7	µg/kg	**2630**	
Caprolactam	105-60-2	µg/kg	< 1540	
Carbazole	86-74-8	µg/kg	**13900**	
Chrysene	218-01-9	µg/kg	**54300**	
Dibenz(a,h)anthracene	53-70-3	µg/kg	**2020**	
Dibenzofuran	132-64-9	µg/kg	**22800**	
Diethyl phthalate	84-66-2	µg/kg	< 1540	
Dimethyl phthalate	131-11-3	µg/kg	< 1540	
Di-n-butyl phthalate	84-74-2	µg/kg	< 1540	
Di-n-octyl phthalate	117-84-0	µg/kg	< 1540	
Fluoranthene	206-44-0	µg/kg	**123000**	
Fluorene	86-73-7	µg/kg	**105000**	
Hexachlorobenzene	118-74-1	µg/kg	< 1540	
Hexachlorobutadiene	87-68-3	µg/kg	< 1540	
Hexachlorocyclopentadiene	77-47-4	µg/kg	< 7600	
Hexachloroethane	67-72-1	µg/kg	< 1540	
Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	**17000**	
Isophorone	78-59-1	µg/kg	< 1540	
Naphthalene	91-20-3	µg/kg	**968000**	
Nitrobenzene	98-95-3	µg/kg	< 1540	
N-Nitroso-di-n-propylamine	621-64-7	µg/kg	< 1540	
N-Nitrosodiphenylamine	86-30-6	µg/kg	< 1540	
Pentachlorophenol	87-86-5	µg/kg	< 15400	
Phenanthrene	85-01-8	µg/kg	**316000**	
Phenol	108-95-2	µg/kg	< 1540	
Pyrene	129-00-0	µg/kg	**147000**	
SVOCs-SPLP				
1,4-Dichlorobenzene	106-46-7	mg/L	< 0.010	
2,4,5-Trichlorophenol	95-95-4	mg/L	< 0.025	
2,4,6-Trichlorophenol	88-06-2	mg/L	< 0.010	
2,4-Dinitrotoluene	121-14-2	mg/L	< 0.010	
2-Methylphenol	95-48-7	mg/L	**0.0093**	
3-and 4-Methylphenol	3,4-MEPH	mg/L	**0.019**	
Hexachlorobenzene	118-74-1	mg/L	< 0.010	
Hexachlorobutadiene	87-68-3	mg/L	< 0.010	
Hexachloroethane	67-72-1	mg/L	< 0.010	
Nitrobenzene	98-95-3	mg/L	< 0.010	
Pentachlorophenol	87-86-5	mg/L	< 0.025	
Pyridine	110-86-1	mg/L	< 0.010	
Metals				
Antimony	7440-36-0	mg/kg	< 3.6	
Arsenic	7440-38-2	mg/kg	**5.0**	
Beryllium	7440-41-7	mg/kg	< 0.30	
Boron	7440-42-8	mg/kg	**15.8**	
Cadmium	7440-43-9	mg/kg	**0.49**	
Chromium	7440-47-3	mg/kg	**16.0**	
Chromium, Hexavalent	18540-29-9	mg/kg	< 1.2	
Chromium, Trivalent	16065-83-1	mg/kg	**16.0**	
Cobalt	7440-48-4	mg/kg	**3.2**	
Copper	7440-50-8	mg/kg	**47.6**	

Table 2
2019 Waste Characterization
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Location ID Sample Date Sample ID Depth Interval	CAS #	Unit	TP-207 43636.52083 TP-207 (1-6)20190620 1 - 6 ft	TP-207 43636.52083 TP-207 (5)20190620 5 - 5 ft
Metals (continued)				
Lead	7439-92-1	mg/kg	**353**	
Mercury	7439-97-6	mg/kg	**0.47**	
Nickel	7440-02-0	mg/kg	**11.4**	
Selenium	7782-49-2	mg/kg	**1.9**	
Silver	7440-22-4	mg/kg	**0.27**	
Thallium	7440-28-0	mg/kg	< 0.60	
Tin	7440-31-5	mg/kg	**5.9**	
Vanadium	7440-62-2	mg/kg	**18.8**	
Zinc	7440-66-6	mg/kg	**379**	
Metals-SPLP				
Arsenic	7440-38-2	mg/L	< 0.050	
Barium	7440-39-3	mg/L	**0.50**	
Cadmium	7440-43-9	mg/L	< 0.012	
Chromium	7440-47-3	mg/L	< 0.050	
Copper	7440-50-8	mg/L	< 0.12	
Lead	7439-92-1	mg/L	< 0.025	
Mercury	7439-97-6	mg/L	< 0.00020	
Nickel	7440-02-0	mg/L	< 0.20	
Selenium	7782-49-2	mg/L	< 0.050	
Silver	7440-22-4	mg/L	< 0.050	
Zinc	7440-66-6	mg/L	**1.1**	
Cyanide				
Total Cyanide	57-12-5	mg/kg	**0.33**	
Polychlorinated Biphenyls (PCBs)				
Aroclor 1016	12674-11-2	µg/kg	< 375	
Aroclor 1221	11104-28-2	µg/kg	< 762	
Aroclor 1232	11141-16-5	µg/kg	< 375	
Aroclor 1242	53469-21-9	µg/kg	< 375	
Aroclor 1248	12672-29-6	µg/kg	< 375	
Aroclor 1254	11097-69-1	µg/kg	< 375	
Aroclor 1260	11096-82-5	µg/kg	**3580**	
Aroclor 1262	37324-23-5	µg/kg	< 375	
Aroclor 1268	11100-14-4	µg/kg	< 375	
PCB (Total) (ppm)	CALC-PCBs	µg/kg	**3580**	
Pesticides-SPLP				
Chlordane	57-74-9	mg/L	< 0.0020	
Endrin	72-20-8	mg/L	< 0.00020	
Gamma BHC - Lindane	58-89-9	mg/L	< 0.00010	
Heptachlor	76-44-8	mg/L	< 0.00010	
Heptachlor Epoxide	1024-57-3	mg/L	< 0.00010	
Methoxychlor	72-43-5	mg/L	< 0.0010	
Toxaphene	8001-35-2	mg/L	< 0.010	
Herbicides-SPLP				
2,4,5-TP (Silvex)	93-72-1	mg/L	**0.00022**	
2,4-D	94-75-7	mg/L	< 0.0050	
Other				
BTU	BTU	BTUs/lb.	**2400**	
Cresols (total)-TCLP	1319-77-3	mg/kg	< 117	
Cyanide (Reactivity)	57-12-5-R	mg/kg		
Ignitability	IGNITABILITY	mm/sec	**2.2**	
Moisture, percent	MOIST	%	**14.6**	**15.0**
Moisture, percent	MOIST	%		
pH	PH	S.U.	**8.4**	
Solids, Total	TSOLIDS	%	**70.2**	
Sulfide (Reactivity)	18496-25-8-R	mg/kg	< 99.8	
Sulfur	7704-34-9	% (w/w)	**0.363**	
Temperature	TEMP	deg c	**23.2**	
Total Organic Halides	TOX	mg/kg	< 35.6	

Notes:
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
BTU - British Thermal Unit
BTUs/lb. - BTUs per pounds
mm/sec - millimeters per second
S.U. - standard units
w/w - weight by weight
deg C - degrees Celsius

Table 3
Summary of Proposed Deep NAPL Recovery Wells
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

Well ID	Deep Boring Location	Screened Interval bgs (ft)	Sump Interval bgs (ft)	Total Well Depth (ft)	Observations
RW-26	SB-215	78-83	83-93	93	Screened interval to intersect NAPL saturated zone from 80 to 83 feet bgs.
RW-27	SB-216	49-64 & 64-84	84-94	94	Two proposed screened intervals. Upper screen to intersect NAPL coated and saturated soils from 49 to 64 feet bgs. Lower screen to intersect NAPL coated and saturated soils from 64 to 84 feet bgs.
RW-28	SB-217	27-37 & 80-95	95-105	105	Two proposed screened intervals. Upper screen to intersect NAPL coated and saturated soils from 27 to 35 feet bgs. Lower screen to intersect NAPL coated and saturated soils from 80 to 95 feet bgs.
RW-29	SB-218	27-37 & 80-85	85-95	95	Two proposed screened intervals. Upper screen to intersect NAPL coated and saturated soils from 27 to 35 feet bgs. Lower screen to intersect NAPL saturated soils from 80 to 84.5 feet bgs.

Table 4
Description of Test Pits
222 Maspeth Avenue Pre-Design Investigation
Former Equity Works MGP Site, Brooklyn, New York

No	Test Pit	Inspection Date	Observation	Photos
1	TP-202	6/7/2019	• The existing concrete wall footing extends approximately 4'-0" below grade and supported on an existing rubble foundation. The rubble foundation extends an additional 2'-0" below the concrete footing. • Ground water has been observed at 6'-0" below grade. Further excavation was halted since it is difficult to see the extent of the rubble foundation.	Photos 1 and 2
2	TP-203	6/7/2019	• The existing concrete wall is supported on the existing slab only. • No footing below grade has been observed.	Photos 3 and 4
3	TP-200	6/11/2019	• The existing concrete wall footing extends at least 6'-0" below grade and appears to continue further. The bottom of footing has not been found at this location due to limitations of excavator. • Since the excavation begins approximately +20 ft away, this is acceptable.	Photo 5
4	TP-201	6/11/2019	• Ground water has been observed at 6'-0" below grade. Further excavation was halted. • No footing has been observed.	Photo 6
5	TP-204 TP-205 TP-206	Between 6/18/2019 and 6/19/2019	• The top of the existing masonry wall is located approximately 3'-6" below the top of grade elevation. • The wall thickness is approximately 2'-6" thick. No signs of movement or cracks have been observed. • The wall does not appear to be a perfect circle. The section of the wall found in TP-204 jogs a bit northward to meet the section of the wall found in TP-205 (discovered by a few feet north of its expected location.)	Photos 7 through 9

Figures

287 Maspeth Avenue, Brooklyn, NY

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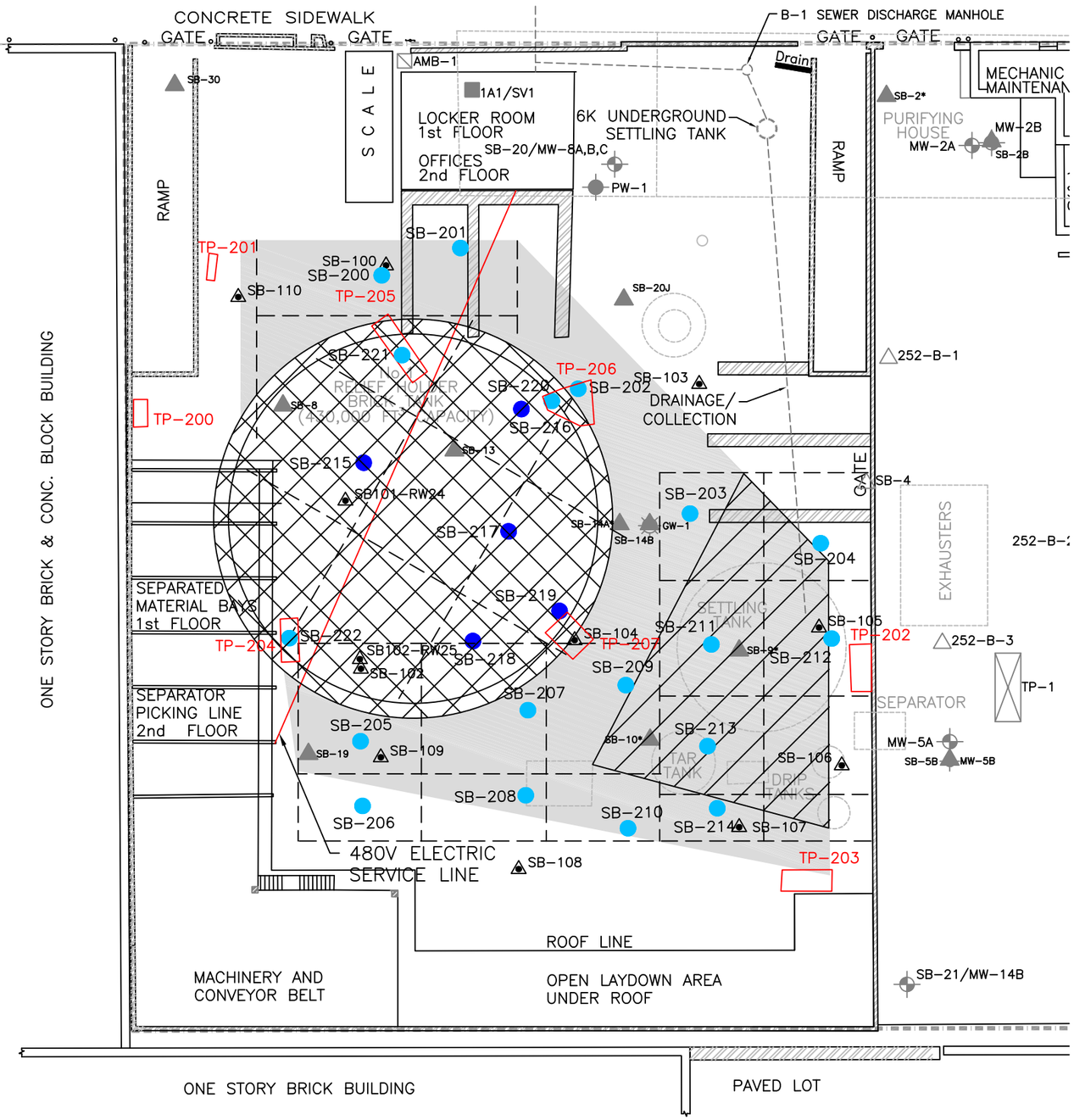


NOTES:
1.) SITE FEATURES (BUILDINGS, WALLS, UTILITIES, ETC.) TAKEN MONTROSE FROM SURVEYING CO., LLC. OF RICHMOND HILL, NY. THOSE SURVEYS (MASPETH AVE 222 ON 9/21/04 AND MASPETH AVE 252 & 254 ON 3/10/06) PROVIDED BY COOPER TANK RECYCLING.
2.) LOCATIONS OF HISTORIC MGP STRUCTURES BASED ON SANBORN FIRE INSURANCE MAPS.
3.) LOCATION OF HISTORIC INVESTIGATION LOCATIONS BASED ON EEA INC., 2004 REPORT (254 MASPETH AVE) AND GANNETT FLEMING 2005 REPORT (252 MASPETH AVE).
4.) SITE CHARACTERIZATION INVESTIGATION LOCATIONS SURVEYED BY GEOD CONSULTING ON DECEMBER 11 AND 12, 2009.
5.) OFFICE BUILDING AND SCALE ON 222 MASPETH AVE. ADJUSTED FROM MONTROSE SURVEY BASED ON FIELD OBSERVATIONS.
* LOCATIONS BASED ON FIELD TIE-INS BY AECOM.

LEGEND:

- SHALLOW SOIL BORINGS
- DEEP SOIL BORINGS
- TEST PITS
- PRE-CHARACTERIZATION SAMPLING GRID (BASE ON VOLUME)
- SOLIDIFY NAPL TO INTERMEDIATE CLAY (~45 FT BGS)
- EXCAVATE HOLDER CONTENTS TO 26 FT BGS
- ISS PRE-EXCAVATION TO 10 FT BGS
- SITE BOUNDARY
- ROADWAY EASEMENT
- CURB
- BUILDING WALL
- CONCRETE WALL
- FENCE
- WATER UTILITY WITH ACCESS WAY
- WV. WATER UTILITY VALVE
- HYDRANT
- E UNDERGROUND ELECTRIC UTILITY VAULT
- 60" SEWER UTILITY WITH ACCESS WAY
- 12" SEWER UTILITY WITH ACCESS WAY
- BOLLARDS
- ELECTRIC UTILITY POLE
- MW-4A RI MONITORING WELL
- SB-4 RI SOIL BORING
- TP-3 RI TEST PIT
- AMB-1 AMBIENT AIR
- 1A1/SV1 INDOOR AIR/ SOIL VAPOR
- PW-1 ON-SITE PUMPING WELL
- GW-1 TEMPORARY MONITORING WELL
- 254-B-6 PREVIOUS INVESTIGATION SAMPLE LOCATION
- HISTORIC STRUCTURE
- CURRENT FEATURE
- SB-100 SUPPLEMENTAL INVESTIGATION LOCATION

15 0 30
GRAPHIC SCALE IN FEET

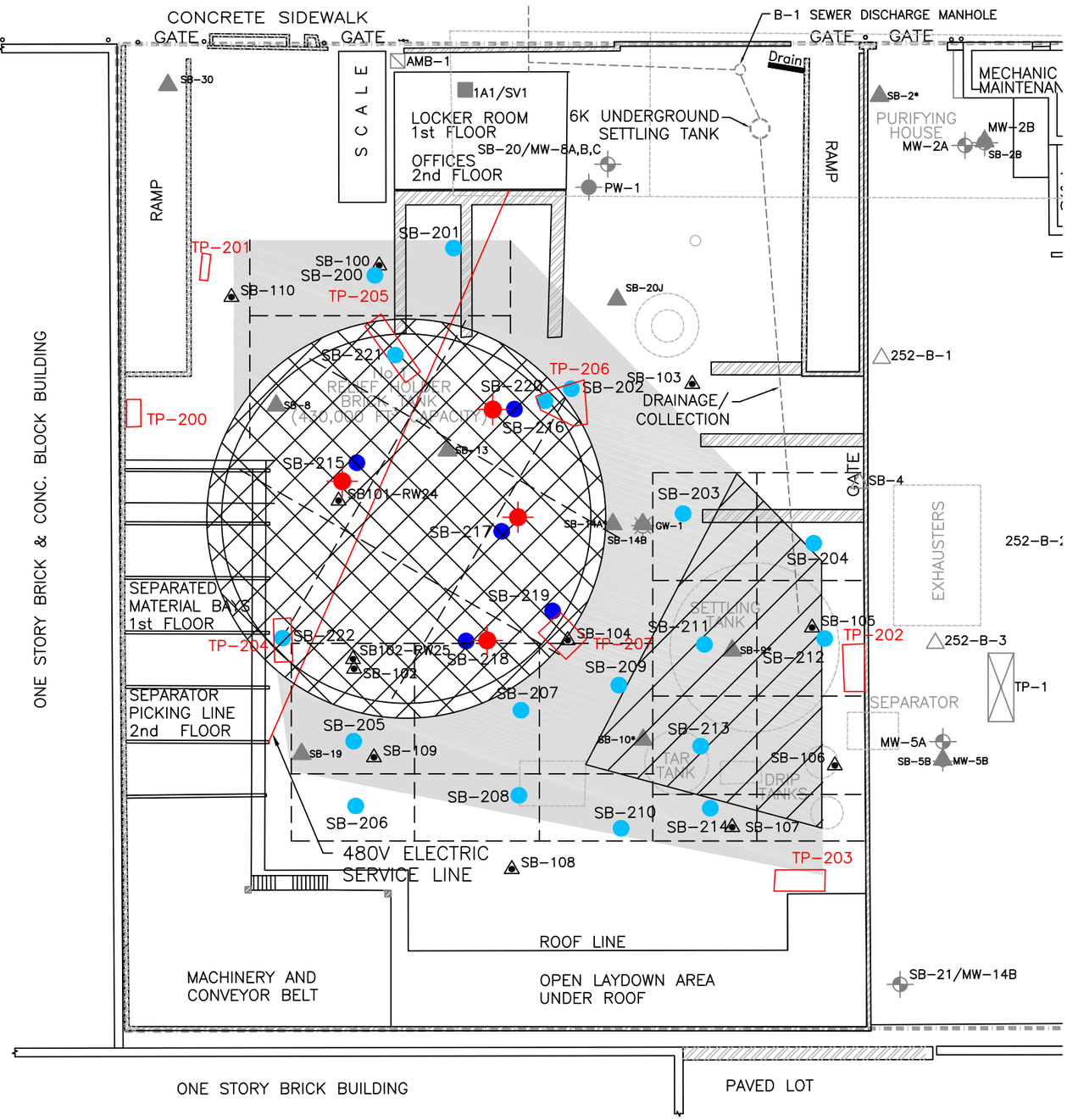
AECOM

NATIONAL GRID
EQUITY FORMER MGP SITE, BROOKLYN NY
PRE-DESIGN INVESTIGATION
60137362.680

DATE: 07/18/2019 | DRWN: JB

PRE-DESIGN INVESTIGATION LOCATIONS
REMOVAL OF HOLDER CONTENTS
AND SOLIDIFICATION OF NAPL
222 MASPETH AVENUE

FIGURE 1



NOTES:
1.) SITE FEATURES (BUILDINGS, WALLS, UTILITIES, ETC.) TAKEN MONTROSE FROM SURVEYING CO., LLC. OF RICHMOND HILL, NY. THOSE SURVEYS (MASPETH AVE 222 ON 9/21/04 AND MASPETH AVE 252 & 254 ON 3/10/06) PROVIDED BY COOPER TANK RECYCLING.
2.) LOCATIONS OF HISTORIC MGP STRUCTURES BASED ON SANBORN FIRE INSURANCE MAPS.
3.) LOCATION OF HISTORIC INVESTIGATION LOCATIONS BASED ON EEA INC., 2004 REPORT (254 MASPETH AVE) AND GANNETT FLEMING 2005 REPORT (252 MASPETH AVE).
4.) SITE CHARACTERIZATION INVESTIGATION LOCATIONS SURVEYED BY GEOD CONSULTING ON DECEMBER 11 AND 12, 2009.
5.) OFFICE BUILDING AND SCALE ON 222 MASPETH AVE. ADJUSTED FROM MONTROSE SURVEY BASED ON FIELD OBSERVATIONS.
* LOCATIONS BASED ON FIELD TIE-INS BY AECOM.

LEGEND:

- LOCATION OF PROPOSED DEEP NAPL RECOVERY WELL FOLLOWING EXCAVATION OF HOLDER CONTENTS
- SHALLOW SOIL BORINGS
- DEEP SOIL BORINGS
- TEST PITS
- PRE-CHARACTERIZATION SAMPLING GRID (BASE ON VOLUME)
- SOLIDIFY NAPL TO INTERMEDIATE CLAY (~45 FT BGS)
- EXCAVATE HOLDER CONTENTS TO 26 FT BGS
- ISS PRE-EXCAVATION TO 10 FT BGS
- SITE BOUNDARY
- ROADWAY EASEMENT
- CURB
- BUILDING WALL
- CONCRETE WALL
- FENCE
- WATER UTILITY WITH ACCESS WAY
- WV. WATER UTILITY VALVE
- HYDRANT
- E UNDERGROUND ELECTRIC UTILITY VAULT
- 60" SEWER UTILITY WITH ACCESS WAY
- 12" SEWER UTILITY WITH ACCESS WAY
- BOLLARDS
- ELECTRIC UTILITY POLE
- MW-4A RI MONITORING WELL
- SB-4 RI SOIL BORING
- TP-3 RI TEST PIT
- AMB-1 AMBIENT AIR
- 1A1/SV1 INDOOR AIR/ SOIL VAPOR
- PW-1 ON-SITE PUMPING WELL
- GW-1 TEMPORARY MONITORING WELL
- 254-B-6 PREVIOUS INVESTIGATION SAMPLE LOCATION
- HISTORIC STRUCTURE
- CURRENT FEATURE
- SB-100 SUPPLEMENTAL INVESTIGATION LOCATION

15 0 30
GRAPHIC SCALE IN FEET

AECOM

NATIONAL GRID
EQUITY FORMER MGP SITE, BROOKLYN NY
PRE-DESIGN INVESTIGATION
60137362.360

PROPOSED DEEP NAPL RECOVERY WELLS

DATE: 08/16/2019 | DRWN: JB | **FIGURE 2**

File: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\Presentation_20190208\MXD\Fig_Alternative_1_2_Pre_Design_Invest_Loc.dwg Layout: FIG 2 PROPOSED DEEP NAPL RECOVERY WELLS User: Bourdeau Plotted: Aug 16, 2019 - 8:27am

Attachment A – Soil Boring and Test Pit Logs

287 Maspeth Avenue, Brooklyn, NY

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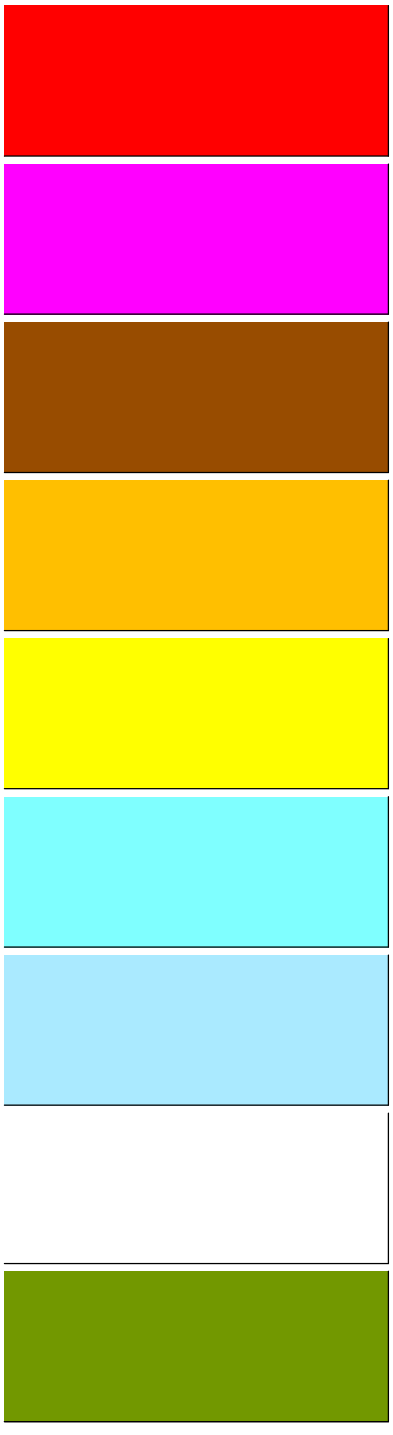
Legend



NAPL SATURATED

NAPL COATED MATERIAL

SOLID NAPL

NAPL BLEBS, GLOBS, SHEEN

STAINING, ODOR

INDUSTRIAL IMPACTS - (PETROLEUM OR OTHER UNNATURAL) SATURATION & SHEENS

INDUSTRIAL IMPACTS - (PETROLEUM OR OTHER UNNATURAL) STAINING & ODORS

WOOD CHIPS/BLUE DISCOLORATION/SULFER-LIKE ODOR

NO OBSERVED IMPACTS

Note: In instances where multiple impacts are present, a combination of colors should be used (such as a color with cross hatching) to clearly identify where these co-mingled impacts are present.

NATIONAL GRID IMPACT COLORS	COLORS FOR NATIONAL GRID IMPACTS
nationalgrid	April 2016

AECOM Boring and Well Construction Log

BORING #: SB-200

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686640.6 **Easting:** 649003.7	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.7	**Drilling Company:** Cascade
Start Date: 5/30/2019	**Drilling Method:** Hand Auger	**Water Level (ft):** N/A
Finish Date: 5/30/2019	**Borehole Diameter:** 6	**Total Depth (ft):** 6

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2	NA	60	0.1			FILL	Brown f-c SAND, some f-c Gravel, Cobbles, brick fragments, dry, no odor	SB-200(1-6)
4			3.3				Black f-c SAND, some Silt, some f-c Gravel, Cobbles, brick/wood/glass fragments, dry, slight to heavy petroleum odor	
6								

Remarks: Boring Terminated (ft): 6.0

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

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

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

WH = Weight of Hammer

AECOM Boring and Well Construction Log

BORING #: SB-201

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686669.5 **Easting:** 649024.0	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Cascade
Start Date: 5/30/2019	**Drilling Method:** Hand Auger	**Water Level (ft):** N/A
Finish Date: 5/30/2019	**Borehole Diameter:** 4	**Total Depth (ft):** 6

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
			0				Brown f-c SAND, some f-c Gravel, little Silt, Cobbles, ash/cinders, dry, no odor	
2	NA	66	4.4				Black f-c SAND, little f-c Gravel, little Silt, moist, slight heavy petroleum odor	
			6.1					
4			3.6			FILL	Very dark gray f-c SAND, little f-c Gravel, little Silt, numerous brick fragments, moist, slight heavy petroleum odor	SB-201(1-6)
			3.1					
6			4.2					

Remarks: Boring Terminated (ft): 6.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

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

WH = Weight of Hammer

AECOM Boring and Well Construction Log

BORING #: SB-202

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686630.5 **Easting:** 649055.7	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.6	**Drilling Company:** Cascade
Start Date: 6/13/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 6
Finish Date: 6/13/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 45

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2	NA	60	0			FILL	Brown f-c GRAVEL, little f-c Sand, little Silt, Cobbles, brick fragments, dry, no odor	
			0.4				Black f-c SAND, some f-c Gravel, little Silt, Cobbles, wood/brick/concrete/asphalt/plastic debris, moist, strong heavy petroleum odor	
4			18.2					SB-202(1-6)
			20.9					
6			23.5				Grayish brown sility fine SAND, some f-c Gravel, wet, slight naphthalene-like odor	
8	48	48	21.4					SB-202(5-10)
10								
12	23	60	1000+				Dark gray silty fine SAND, little f-c Gravel, wet coated with NAPL, strong naphthalene-like odor	SB-202(10-15)
14								
16	23	60	1000+					
18								SB-202(15-20)
20			1000+				Drak brown f-c SAND, little f-c Gravel, Cobbles, wet, coated with NAPL, strong naphthalene-like odor	

Remarks: Boring Terminated (ft): 45.0

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

WH = Weight of Hammer

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-202

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686630.5 **Easting:** 649055.7	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.6	**Drilling Company:** Cascade
Start Date: 6/13/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 6
Finish Date: 6/13/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 45

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	30	60	451			SP	Grayish brown silty fine SAND, trace coarse Gravel, wet, 1/2" bands of NAPL-coating, strong naphthalene-like odor	SB-202(20-25)
24			606					
26	30	60	554				Gray silty fine SAND, some f-c Gravel, dense, wet, 1/4" band of NAPL-coating @ 29', moderate naphthalene-like odor	SB-202(25-30)
28			121					
30	NA		202			SW	Gray f-c SAND, trace fine Gravel, wet, stained with NAPL, strong naphthalene-like odor	
32	30	60	1000+			SP	Grayish brown silty fine SAND, Cobbles, wet, bands of NAPL coating, strong naphthalene-like odor	SB-202(30-35)
34								
36	30	60	1000+					SB-202(35-40)
38			1000+					
40								

Remarks: Boring Terminated (ft): 45.0

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

WH = Weight of Hammer

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-202

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686630.5 **Easting:** 649055.7	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.6	**Drilling Company:** Cascade
Start Date: 6/13/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 6
Finish Date: 6/13/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 45

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	18	60	2			CL	Gray CLAY, wet, no odor (Intermediate Clay)	
44								

Remarks: Boring Terminated (ft): 45.0

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WH = Weight of Hammer

AECOM Boring and Well Construction Log

BORING #: SB-203

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686611.4 **Easting:** 649089.9	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Cascade
Start Date: 5/29/2019	**Drilling Method:** Hand Auger	**Water Level (ft):** N/A
Finish Date: 5/29/2019	**Borehole Diameter:** 4	**Total Depth (ft):** 6

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	NA
2	NA	60	0			FILL	Brown COBBLES, and coarse GRAVEL, dry, no odor, no sampleable soil	
4								
6								

Remarks: Boring Terminated (ft): 6.0

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

WH = Weight of Hammer

Boring and Well Construction Log

BORING #: SB-204

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686614.8 **Easting:** 649121.1	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.1	**Drilling Company:** Cascade
Start Date: 5/24/2019	**Drilling Method:** Hand Auger	**Water Level (ft):** 6
Finish Date: 5/28/2019	**Borehole Diameter:** 4	**Total Depth (ft):** 6

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2	NA	60	0			FILL	Dark brown WOOD DEBRIS, little f-c Sand, little f-c Gravel, little Silt, plastic, ceramic, glass, wire fragments, moist, no odor	SB-204(1-6)
4								
6			4.1				Same as above but gray, very moist, slight organic odor	

Remarks: Boring Terminated (ft): 6.0

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

WH = Weight of Hammer

AECOM Boring and Well Construction Log

BORING #: SB-205

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686536.0 **Easting:** 649034.4	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.3	**Drilling Company:** Cascade
Start Date: 5/31/2019	**Drilling Method:** Hand Auger	**Water Level (ft):** 5
Finish Date: 5/31/2019	**Borehole Diameter:** 6	**Total Depth (ft):** 6

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2	NA	60	1.1			FILL	Black f-c SAND, little Silt, little f-c Gravel, Cobbles, numerous wood fragments, brick/glass fragments, moist to wet, moderate heavy petroleum odor	SB-205(1-6)
			1.8					
4			3.4					
			4.1					
6			3.9					

Remarks: Boring Terminated (ft): 6.0

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

WH = Weight of Hammer

AECOM Boring and Well Construction Log

BORING #: SB-206

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686521.9 **Easting:** 649039.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.5	**Drilling Company:** Cascade
Start Date: 5/31/2019	**Drilling Method:** Hand Auger	**Water Level (ft):** 5
Finish Date: 5/31/2019	**Borehole Diameter:** 6	**Total Depth (ft):** 6

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2	NA	60	2.6			FILL	Black f-c SAND, little Silt, little f-c Gravel, Cobbles, numerous wood fragments, brick/glass fragments, moist to wet, moderate heavy petroleum odor	SB-206(1-6)
			5.1					
4			4.3					
			5.6					
6			2.9					

Remarks: Boring Terminated (ft): 6.0

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

WH = Weight of Hammer

AECOM Boring and Well Construction Log

BORING #: SB-207

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686555.6 **Easting:** 649069.1	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.7	**Drilling Company:** Cascade
Start Date: 5/29/2019	**Drilling Method:** Hand Auger	**Water Level (ft):** N/A
Finish Date: 5/29/2019	**Borehole Diameter:** 6	**Total Depth (ft):** 6

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2	NA	60	20.3			FILL	Black f-c SAND, little Silt, little f-c Gravel, numerous wood fragments, brick/tile/wire/glass fragments, moist to wet, strong heavy petroleum odor	SB-207(1-6)
			28.7					
4			23.2					
			19.9					
6			16.3					

Remarks: Boring Terminated (ft): 6.0

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

WH = Weight of Hammer

AECOM Boring and Well Construction Log

BORING #: SB-208

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686540.5 **Easting:** 649079.3	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Cascade
Start Date: 5/29/2019	**Drilling Method:** Hand Auger	**Water Level (ft):** 6
Finish Date: 5/29/2019	**Borehole Diameter:** 4	**Total Depth (ft):** 6

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2	NA	60	1.6			FILL	Black f-c SAND, little Silt, little f-c Gravel, numerous wood fragments, brick/tile/wire/glass fragments, moist to wet, slight heavy petroleum odor	SB-208(1-6)
			11.3					
4			11.8					
			10.4					
6			10.6					

Remarks: Boring Terminated (ft): 6.0

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

WH = Weight of Hammer

AECOM Boring and Well Construction Log

BORING #: SB-209

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686568.6 **Easting:** 649088.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.3	**Drilling Company:** Cascade
Start Date: 6/3/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 5
Finish Date: 6/4/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 45

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2	NA	60	0.6			FILL	Black f-c SAND, some f-c Gravel, little Silt, Cobbles, numerous wood fragments, brick/glass/metal fragments, moist to wet, moderate heavy petroleum odor	
			0.8					
4			6.3					SB-209(1-6)
			12.2					
6			12.1					
8	36	48	31.9				Black f-c SAND, little f-c Gravel, little Silt, wood/metal/brick/glass fragments, wet, moderate heavy petroleum odor	SB-209(6-10)
10								
12	24	60	751				Grayish brown fine SAND, little Silt, wet, light NAPL coating, sheen, strong naphthalene-like odor, approximately 4" of Clay @ 14'	SB-209(10-15)
14								
16	36	60	1000+				Same as above, wet, saturated with NAPL, strong naphthalene-like odor	SB-209(15-18)
18								
20			8.8			PT	Dark gray fibrous PEAT, wet, strong natural sulfur odor	

Remarks: Boring Terminated (ft): 45.0

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

WH = Weight of Hammer

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-209

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686568.6 **Easting:** 649088.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.3	**Drilling Company:** Cascade
Start Date: 6/3/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 5
Finish Date: 6/4/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 45

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	34	60	451			SP	Gray fine SAND, little Silt, wet, stained with NAPL, strong naphthalene-like odor	SB-209(20-24)
24			7.6			PT	Dark brown fibrous PEAT, wet, strong natural sulfur odor	
26	36	60	10.6				Dark gray fibrous PEAT and organic CLAY, wet, strong natural sulfur odor	SB-209(25-30)
28			14.2				Dark brown friable PEAT, wet, strong natural sulfur odor	
30			363			SP	Gray fine SAND, little Silt, wet, stained with NAPL, strong naphthalene-like odor	
32	40	60	1000+				Same as above, wet, bands of light NAPL-coating, 3" of heavy TLM-coating @ 34', strong naphthalene-like odor	SB-209(30-35)
34								
36	48	60	506				Same as above, wet, stained with NAPL, strong naphthalene-like odor	
38			2.6			CL	Gray CLAY, 1/2" seam of fine Sand @ 38.5' saturated with NAPL, wet, strong naphthalene-like odor	SB-209(35-40)
40			1000+					
			4.3					

Remarks: Boring Terminated (ft): 45.0

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

WH = Weight of Hammer

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-209

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686568.6 **Easting:** 649088.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.3	**Drilling Company:** Cascade
Start Date: 6/3/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 5
Finish Date: 6/4/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 45

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
			1.6			SP	Gray f-c SAND, wet, no odor	SB-209(40-41)
42	48	60	0			CL	Gray CLAY, wet, no odor (Intermediate Clay)	
44								

Remarks: Boring Terminated (ft): 45.0

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

WH = Weight of Hammer

Boring and Well Construction Log

BORING #: SB-210

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686537.2 **Easting:** 649100.2	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.7	**Drilling Company:** Cascade
Start Date: 6/4/2019	**Drilling Method:** Hand Auger	**Water Level (ft):** 5
Finish Date: 6/4/2019	**Borehole Diameter:** 6	**Total Depth (ft):** 6

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2	NA	60	0.7			FILL	Black f-c SAND, some f-c Gravel, little Silt, Cobbles, numerous wood fragments, brick/glass/fabric fragments, moist to wet, moderate heavy petroleum odor	SB-210(1-6)
			2.2					
4			3.7					
			9.9					
6			9.6					

Remarks: Boring Terminated (ft): 6.0

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

WH = Weight of Hammer

AECOM Boring and Well Construction Log

BORING #: SB-211

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686584.1 **Easting:** 649104.6	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.7	**Drilling Company:** Cascade
Start Date: 5/29/2019	**Drilling Method:** Hand Auger/Sonic Core Barrel	**Water Level (ft):** 2.5
Finish Date: 6/3/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 10

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2						Concrete	Concrete slab	
	NA	42	0.3			FILL	Dark brown COBBLES, brick and tile fragments, dry, no odor Dark brown f-c SAND, little f-c Gravel, little Silt, numerous Cobbles, brick/wood/tile/glass fragments, wet @ 2.5', no odor	
4			0.2					
6							Black f-c SAND, little f-c Gravel, little Silt, numerous wood fragments, wet, slight heavy petroleum odor	SB-211(2-10)
8	40	60	5.9					
10			1.1				Grayish brown f-c SAND, some Silt, little f-c Gravel, brick and concrete fragments, wet, no odor	

Remarks: Boring Terminated (ft): 10.0

Hand Auger to 5'. Complete with Sonic Rig

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

WH = Weight of Hammer

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AECOM Boring and Well Construction Log

BORING #: SB-212

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686594.6 **Easting:** 649130.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Cascade
Start Date: 5/23/2019	**Drilling Method:** Hand Auger/Sonic Core Barrel	**Water Level (ft):** 5
Finish Date: 6/4/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 45

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2			0			FILL	Dark brown COBBLES, some coarse Gravel, dry, no odor	
4	NA	54	0				Same as above, little f-c Sand, little Silt, moist, no odor	SB-212(2-5)
6	28	60	7.3				Dark gray f-c SAND, some f-c Gravel, Cobbles, little Silt, shreds of plastic, moist, slight naphthalene-like odor	
8			8.7				Black f-c SAND, some Silt, some f-c Gravel, Cobbles, brick/plastic/wood/metal fragments, wet, slight heavy petroleum odor	SB-212(5-10)
10								
12	15	60	11.9					SB-212(10-15)
14								
16	36	60	31.3			ML	Dark gray SILT, little f-c Sand, little f-c Gravel, Cobbles, wet, seam sof NAPL-coating, sheen, strong naphthalene-like odor	SB-212(15-20)
18								
20			256			SP	Brownish gray fine SAND, little Silt, wet, stained with NAPL, strong naphthalene-like odor	
			12.4			PT	Dark gray friable PEAT, wet, stroing natural sulfur odor	

Remarks: Boring Terminated (ft): 45.0

Hand Auger to 5'. Completed with Sonic Rig

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

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

WH = Weight of Hammer

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AECOM Boring and Well Construction Log

BORING #: SB-212

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686594.6 **Easting:** 649130.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Cascade
Start Date: 5/23/2019	**Drilling Method:** Hand Auger/Sonic Core Barrel	**Water Level (ft):** 5
Finish Date: 6/4/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 45

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	12	60	292			SP	Gray fine SAND, little Silt, wet, stained with NAPL, sheen, strong naphthalene-like odor	SB-212(20-25)
24								
26	24	60	601				Gray f-m SAND, little Silt, wet, several 2-3" bands of NAPL coating, strong naphthalene-like odor	SB-212(25-30)
28								
30			207			ML	Gray SILT, wet, strong naphthalene-like odor	
32	36	60	183			SP	Gray fine SAND, little Silt, wet, sheen, strong naphthalene-like odor	SB-212(30-35)
34								
36	38	60	218				Gray fine SAND, little Silt, little f-c Gravel @ 38-39', wet, heavily coated with NAPL @ 38-39', strong naphthalene-like odor	SB-212(35-40)
38			1000+					
40			368					

Remarks: Boring Terminated (ft): 45.0

Hand Auger to 5'. Completed with Sonic Rig

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

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

WH = Weight of Hammer

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Boring and Well Construction Log

BORING #: SB-212

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686594.6 **Easting:** 649130.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Cascade
Start Date: 5/23/2019	**Drilling Method:** Hand Auger/Sonic Core Barrel	**Water Level (ft):** 5
Finish Date: 6/4/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 45

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	48	60	0.3			CL	Gray CLAY, wet, no odor (Intermediate Clay)	
44			0.3					

Remarks: Boring Terminated (ft): 45.0

Hand Auger to 5'. Completed with Sonic Rig

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

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

WH = Weight of Hammer

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AECOM Boring and Well Construction Log

BORING #: SB-213

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686569.7 **Easting:** 649111.9	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Cascade
Start Date: 5/28/2019	**Drilling Method:** Hand Auger/Sonic Core Barrel	**Water Level (ft):** 5.5
Finish Date: 6/3/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 10

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2	NA	48	0			FILL	Dark brown COBBLES, some coarse Gravel, glass/brick/tile fragments, dry, no odor	
4			9.3				Dark gray WOOD DEBRIS, little f-c Sand, little f-c Gravel, little Silt, Cobbles, brick/tile/wire fragments, moist, slight heavy petroleum odor	
			9.6					
6	36	60	10.1				Black SILT, some f-c Sand, some f-c Gravel, Cobbles, wood debris, wet, slight heavy petroleum odor	SB-213(2-10)
8								
10			2.2				Brownish gray f-c SAND, some f-c Gravel, little Silt, Cobbles, brick and concrete fragments, wet, no odor	

Remarks: Boring Terminated (ft): 10.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

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

WH = Weight of Hammer

AECOM Boring and Well Construction Log

BORING #: SB-214

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686548.4 **Easting:** 649118.4	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.3	**Drilling Company:** Cascade
Start Date: 5/28/2019	**Drilling Method:** Hand Auger/Sonic Core Barrel	**Water Level (ft):** 5.5
Finish Date: 6/3/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 10

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2	NA	48	0			FILL	Dark brown COBBLES, tile/glass/brick fragments, trace f-c Sand, dry, no odor	
4			0				Brown f-c SAND, little f-c Gravel, ash, tile/glass/brick fragments, moist, no odor	
6	18	60	0.2				Grayish brown f-c GRAVEL, little f-c Sand, Cobbles, brick/tile/ceramic fragments, wet, no odor	SB-214(1-10)
8								
10			0				Black f-c SAND, little f-c Gravel, fabric fragments, wet, no odor	

Remarks: Boring Terminated (ft): 10.0

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

WH = Weight of Hammer

AECOM Boring and Well Construction Log

BORING #: SB-215

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686597.8 **Easting:** 649013.9	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.2	**Drilling Company:** Cascade
Start Date: 6/5/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 4
Finish Date: 6/13/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2	NA	48	3.9			FILL	Dark brown f-c SAND, some Silt, some f-c Gravel, Cobbles, dry, no odor	
4			8.1				Black f-c SAND, some f-c Gravel, little Silt, Cobbles, numerous wood fragments, brick fragments, moist to wet, slight naphthalene-like odor	SB-215(1-5)
			19.8					
			21.4					
6	34	60	55.8				Black f-c SAND, some Silt, little f-c Gravel, numerous wood and wire fragments, wet, sheen, moderate naphthalene-like odor	
8								SB-215(5-10)
10			71.1					
12	18	60	1000+				Black f-c SAND, some f-c Gravel, little Silt, Cobbles, wood and glass fragments, wet, saturated with NAPL, strong naphthalene-like odor	SB-215(10-15)
14								
16	18	60	1000+					SB-215(15-20)
18								
20								

Remarks: Boring Terminated (ft): 100.0

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AECOM Boring and Well Construction Log

BORING #: SB-215

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686597.8 **Easting:** 649013.9	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.2	**Drilling Company:** Cascade
Start Date: 6/5/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 4
Finish Date: 6/13/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	21	60	755			FILL	Black f-c SAND, some f-c Gravel, little Silt, Cobbles, wire and wood fragments, wet, coated with NAPL, strong naphthalene-like odor	SB-215(20-26)
24								
26						HOLDER	Brick - Holder Bottom Concrete slab - Holder Bottom	
28	21	60	88.4			ML	Dark gray SILT, some f-c Sand, some f-c Gravel, dense, wet, moderate naphthalene-like odor	
30								
32	30	60	404			SW	Gray F-M SAND, trace f-c Gravel, wet, coated with NAPL, strong naphthalene-like odor	
34			46.1			SP	Gray compact silty fine SAND, some f-c Gravel, wet, slight naphthalene-like odor	
36	30	60	2.9			SP	Same As Above, wet, no odor	
38			2.4			SP		
40								

Remarks: Boring Terminated (ft): 100.0

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WH = Weight of Hammer

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AECOM Boring and Well Construction Log

BORING #: SB-215

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686597.8 **Easting:** 649013.9	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.2	**Drilling Company:** Cascade
Start Date: 6/5/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 4
Finish Date: 6/13/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	42	60	0.2				Grayish brown f-c SAND, some f-c Gravel, Cobbles, wet, no odor	
44			0					
46	40	60	0.9				Same as above, wet, no odor, 1" heavily coated with NAPL @ 50'	
48			1.3					
50			1000+			SW		
52	14	60	369				Same as above, wet, coated with NAPL @ 50-52', strong naphthalene-like odor	
54			11.4					
56	14	60	1.7				Same as above, wet, no odor	
58								
60								

Remarks: Boring Terminated (ft): 100.0

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AECOM Boring and Well Construction Log

BORING #: SB-215

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686597.8 **Easting:** 649013.9	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.2	**Drilling Company:** Cascade
Start Date: 6/5/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 4
Finish Date: 6/13/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60								
62	40	60	0.4				Gray f-c SAND, little f-c Gravel, wet, no odor	
64			0.5					
66	42	60	0.4			SW	Same as above, Cobbles, wet, no odor	
68								
70			0.6					
72	36	60	0.8				Brown f-c SAND, little f-c Gravel, wet, no odor	
74			0.8					
76	36	60	0.5			SP	Brown fine SAND, little Silt, wet, no odor	
78								
80			0.6				Brown silty fine SAND, little f-c Gravel, compact, wet, no odor	

Remarks: Boring Terminated (ft): 100.0

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AECOM Boring and Well Construction Log

BORING #: SB-215

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686597.8 **Easting:** 649013.9	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.2	**Drilling Company:** Cascade
Start Date: 6/5/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 4
Finish Date: 6/13/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80								
82	48	60	161			SP	Brown fine SAND, wet, saturated with NAPL, strong naphthalene-like odor	
84			2.4			CL	Dark gray silty CLAY, 2" seam of fine Sand @ 83.5', wet, no odor	
86	40	60	1				Dark gray CLAY, shell fragments @ 86', wet, no odor	
88								
90			0				Bands of dense CLAY, 1" of red mottled clay, wet, no odor	
92	24	60	0			ML	Black SILT/LIGNITE, crumbly, wet, no odor (Gardiners Clay)	
94			0			CL	Gray CLAY, wet, no odor	
96	24	60	0					
98								
100								

Remarks: Boring Terminated (ft): 100.0

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WH = Weight of Hammer

AECOM Boring and Well Construction Log

BORING #: SB-216

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686621.7 **Easting:** 649044.7	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Cascade
Start Date: 6/5/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 4
Finish Date: 6/7/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2	NA	48	0.2			FILL	Brown f-c GRAVEL, some f-c Sand, little Silt, brick fragments, dry, no odor	
4			3.1				Black f-c SAND, some f-c Gravel, little Silt, Cobbles, wood/brick/plastic/glass debris, moist to wet, slight heavy petroleum odor	SB-216(1-5)
			4.1					
6	24	60	708				Black SILT, some f-c Sand, little f-c Gravel, Cobbles, brick/glass/wood/fabric fragments, wet, heavy NAPL coating, strong naphthalene-like odor	
8								SB-216(5-10)
10								
12	0	60	NA			NR	No recovery	
14								
16	0	60	NA					
18								
20								

Remarks: Boring Terminated (ft): 100.0

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

WH = Weight of Hammer

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-216

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686621.7 **Easting:** 649044.7	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Cascade
Start Date: 6/5/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 4
Finish Date: 6/7/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	24	60	1000+			FILL	Black f-c SAND, some Silt, some f-c Gravel, Cobbles, wood and glass fragments, wet, saturated with thick NAPL, strong naphthalene-like odor	SB-216(20-26)
24								
26						HOLDER	Brick - Holder Bottom Concrete slab - Holder Bottom	
28	12	60	1000+			NR	No recovery	
30								
32	0	60	NA				No recovery	
34								
36	0	60	NA					
38								
40								

Remarks: Boring Terminated (ft): 100.0

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

WH = Weight of Hammer

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-216

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686621.7 **Easting:** 649044.7	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Cascade
Start Date: 6/5/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 4
Finish Date: 6/7/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	30	60	0.6			CL	Gray CLAY, wet, no odor	
44			0.3					
46	30	60	0.4					
48			2.6					
50			1000+			SP	Brown fine SAND, trace f-c Gravel, wet, saturated with NAPL, strong naphthalene-like odor	
52	0	60	NA			NR	No recovery	
54								
56	0	60	NA					
58								
60								

Remarks: Boring Terminated (ft): 100.0

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

WH = Weight of Hammer

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-216

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686621.7 **Easting:** 649044.7	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Cascade
Start Date: 6/5/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 4
Finish Date: 6/7/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60								
62	24	60	881			SW	Gray f-c SAND, some f-c Gravel, Cobbles, wet, coated with NAPL, strong naphthalene-like odor	
64								
66	24	60	1000+				Gray f-c SAND, little f-c Gravel, little Silt, wet, coated with NAPL @ 65-68', saturated with TLM @ 68-70', strong naphthalene-like odor	
68								
70			1000+				Gray f-c SAND, some f-c Gravel, wet, coated with NAPL, strong naphthalene-like odor	
72	30	60	782			SP	Brown fine SAND, little Silt, trace f-c Gravel, wet, coated with NAPL, strong naphthalene-like odor	
74								
76	30	60	1000+				Same as above, wet, saturated with NAPL, strong naphthalene-like odor	
78								
80			91.4			SW	Brown compact silty f-c SAND, some f-c Gravel, Cobbles, wet, moderate naphthalene-like odor	

Remarks: Boring Terminated (ft): 100.0

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

WH = Weight of Hammer

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-216

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686621.7 **Easting:** 649044.7	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Cascade
Start Date: 6/5/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 4
Finish Date: 6/7/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80								
82	40	60	652			SW	Same as above, wet, coated with NAPL, straong naphthalene-like odor	
84			1000+			SP	Brown fine SAND, wet, saturated with NAPL, strong naphthalene-like odor	
			103			CL	Dark gray silty CLAY, wet, moderate naphthalene-like odor (Lower Clay)	
86	60	60	0.4				Gray to dark gray CLAY, dense @ 93', red mottled Clay with coarse Gravel @ 92.5-93', sheel fragments @ 91-92', wet, no odor	
88								
90								
92	48	60	0				Gray silty CLAY, Cobble @ 90.5', wet, no odor	
			0				Dark gray CLAY, wet, no odor	
94			0			ML	Black SILT, multiple lignite beds, wet, no odor (Gardiners Clay)	
96	46	60	0			CL	Light gray silty CLAY, soft, numerous plant roots, wet, no odor	
98			0					
100								

Remarks: Boring Terminated (ft): 100.0

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

WH = Weight of Hammer

AECOM Boring and Well Construction Log

BORING #: SB-217

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686593.7 **Easting:** 649051.2	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.4	**Drilling Company:** Cascade
Start Date: 6/3/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 2.5
Finish Date: 6/6/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2	NA	48	1.9			FILL	Dark brown f-c Gravel, little f-c Sand, little Silt, numerous Cobbles, trace wood and plastic fragments, wet @ 2.5', no odor	SB-217(1-6)
4								
6	18	60	613				Black SILT, some f-c Sand, some f-c Gravel, Cobbles, brick and glass fragments, wet, sheen, strong naphthalene-like odor	SB-217(5-10)
8								
10								
12	0	60	NA			NR	No recovery	
14								
16	0	60	NA					
18								
20								

Remarks: Boring Terminated (ft): 100.0

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

WH = Weight of Hammer

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-217

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686593.7 **Easting:** 649051.2	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.4	**Drilling Company:** Cascade
Start Date: 6/3/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 2.5
Finish Date: 6/6/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	30	60	NA			FILL	Black fine SAND, some Silt, trace f-c Gravel, wet, saturated with NAPL, strong naphthalene-like odor	SB-217(20-26)
24								
26			1000+					
						HOLDER	Brick - Holder Bottom Concrete slab - Holder Bottom	
28	30	60	515			SP	Gray silty fine SAND, some f-c Gravel, wet, coated with NAPL, strong naphthalene-like odor	
30								
32	42	60	1000+				Gray fine SAND, little Silt, trace f-c Gravel, Cobble @ 35', wet, saturated with NAPL @ 30-32' and 34-35', coated with TLM @ 32-34', strong naphthalene-like odor	
34			702					
			1000+					
36	36	60	0.4			CL	Gray CLAY, wet, no odor (Intermediate Clay)	
38								
40								

Remarks: Boring Terminated (ft): 100.0

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

WH = Weight of Hammer

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-217

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686593.7 **Easting:** 649051.2	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.4	**Drilling Company:** Cascade
Start Date: 6/3/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 2.5
Finish Date: 6/6/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40			0.3			CL	Same as above, wet, no odor	
42	24	60	0.3			SP	Gray to brown dense silty fine SAND, some f-c Gravel, wet, no odor	
44								
46	24	60	0.2					
48								
50			0.2			GW	Gray f-c Gravel, some f-c Sand, Cobbles, wet, no odor	
52	22	60	0.3			SW	Brownish gray f-c SAND, little f-c Gravel, few Cobbles, wet, no odor	
54								
56	22	60	0.1					
58								
60								

Remarks: Boring Terminated (ft): 100.0

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(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-217

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686593.7 **Easting:** 649051.2	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.4	**Drilling Company:** Cascade
Start Date: 6/3/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 2.5
Finish Date: 6/6/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60								
62	30	60	0.1				Same as above, wet, no odor	
64								
66	30	60	0					
68								
70			0				Same as above, brown, wet, no odor	
72	30	60	0			SW	Brown f-c SAND, little Silt, little f-c Gravel, few Cobbles, wet, no odor	
74			0					
76	30	60	0					
78								
80								

Remarks: Boring Terminated (ft): 100.0

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(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-217

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686593.7 **Easting:** 649051.2	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.4	**Drilling Company:** Cascade
Start Date: 6/3/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 2.5
Finish Date: 6/6/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80								
82	42	60	1000+			SW	Brown f-c SAND, wet, coated with NAPL, strong naphthalene-like odor	
84			1000+				Dark brown fine SAND, little f-c Gravel, wet, saturated with NAPL, strong naphthalene-like odor	
86	48	60	0.3			SP	Dark gray silty fine SAND, wet, no odor, 2" of red mottled Clay in bottom of bag	
88			0.2					
90								
92	30	60	NA			SW	Brown f-c SAND, trace f-c Gravel, wet, saturated with NAPL, strong naphthalene-like odor	
94								
96	30	60	6.1			CL	Gray to dark gray dense CLAY, crumbly black Silt with lignite @ 99.75', wet, no odor (Gardiners Clay)	
98			0.2					
100								

Remarks: Boring Terminated (ft): 100.0

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

WH = Weight of Hammer

AECOM Boring and Well Construction Log

BORING #: SB-218

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686566.7 **Easting:** 649051.6	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Cascade
Start Date: 6/5/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 4
Finish Date: 6/12/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2	NA	24	4.2			FILL	Black f-c SAND, some f-c Gravel, little Silt, Cobbles, wood and brick debris, moist to wet, slight naphthalene-like odor	SB-218(1-5)
4			12.2					
6	24	60	227				Black f-c SAND, some Silt, little f-c Gravel, Cobbles, lots of wood debris, brick fragments, wet, sheen, strong naphthalene-like odor	SB-218(5-7.5)
8								
10								SB-218(7.5-10)
12	0	60	NA			NR	No recovery	
14								
16	0	60	NA					
18								
20								

Remarks: Boring Terminated (ft): 100.0

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WH = Weight of Hammer

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AECOM Boring and Well Construction Log

BORING #: SB-218

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686566.7 **Easting:** 649051.6	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Cascade
Start Date: 6/5/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 4
Finish Date: 6/12/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	24	60	1000+			FILL	Black SILT, some f-c Sand, little f-c Gravel, Cobbles, wood debris, wet, saturated with NAPL, strong naphthalene-like odor	SB-218(20-23)
24								SB-218(23-26)
26			1000+					
						HOLDER	Brick - Holder Bottom Concrete slab - Holder Bottom	
28	24	60	1000+			SP	Gray silty fine SAND, wet, saturated with NAPL, strong naphthalene-like odor	
30								
32	30	60	1000+				Gray fine SAND, little Silt, wet, saturated with NAPL @ 30-32', coated with TLM @ 32-35', strong naphthalene-like odor	
34								
36	30	60	611			CL	Gray sandy CLAY, wet, strong naphthalene-like odor	
38			16.2				Gray CLAY, wet, no odor (Intermediate Clay)	
40								

Remarks: Boring Terminated (ft): 100.0

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AECOM Boring and Well Construction Log

BORING #: SB-218

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686566.7 **Easting:** 649051.6	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Cascade
Start Date: 6/5/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 4
Finish Date: 6/12/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	30	60	1.1			CL	Gray CLAY, wet, no odor (Intermediate Clay)	
44								
46	30	60	1.3			SW	Same as above, grayish brown, wet, no odor	
48								
50			1.7				Dark brown f-c SAND, some f-c Gravel, wet, no odor	
52	15	60	328				Same as above, Cobbles, wet, slight naphthalene-like odor	
54								
56	15	60	28.6					
58								
60			723			SP	Black silty fine SAND, wet, stained with NAPL, moderate naphthalene-like odor	

Remarks: Boring Terminated (ft): 100.0

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AECOM Boring and Well Construction Log

BORING #: SB-218

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686566.7 **Easting:** 649051.6	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Cascade
Start Date: 6/5/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 4
Finish Date: 6/12/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60								
62	30	60	1.5			SW	Gray f-c SAND, some f-c Gravel, Cobbles, wet, no odor	
64								
66			1.3					
68	30	60	0.7				Dark brown f-c SAND, some f-c Gravel, little Silt, wet, no odor	
70			0.8			SP	Dark brown silty fine SAND, wet, no odor	
72	30	60	0.8			SW	Brown f-c SAND, some f-c Gravel, Cobbles, 1" seam of black fine Sand @ 72', wet, no odor	
74			0.6					
76								
78	30	60	0.4					
80			0.5			SP	Brown fine SAND, little Silt, little f-c Gravel, wet, no odor	

Remarks: Boring Terminated (ft): 100.0

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AECOM Boring and Well Construction Log

BORING #: SB-218

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686566.7 **Easting:** 649051.6	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Cascade
Start Date: 6/5/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 4
Finish Date: 6/12/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80								
82	48	60	1000+ NA			SW	Dark brown f-c SAND, wet, saturated with NAPL, strong naphthalene-like odor	
84			17.7			CL	Gray dense silty CLAY, wet, no odor (Lower Clay)	
86	36	60	2.1				Dark gray silty CLAY grading to CLAY, shell fragments @ 89.5', 1/2" band of fine sand @ 86', wet, no odor	
88								
90			0.4				Dark gray dense CLAY, 2" red mottled Clay @ 90', wet, no odor	
92	38	60						
94			0.6			ML	Black SILT with lignite, wet, no odor	
96	42	60	0.2			CL	Gray silty CLAY, wet, no odor (Gardiners Clay)	
98							Gray CLAY, trace f-c Gravel, numerous plant roots, wet, no odor	
100			0.2					

Remarks: Boring Terminated (ft): 100.0

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AECOM Boring and Well Construction Log

BORING #: SB-219

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686580.0 **Easting:** 649068.5	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.2	**Drilling Company:** Cascade
Start Date: 6/4/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 5
Finish Date: 6/5/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2	NA	48	1.6			FILL	Black f-c SAND, little f-c Gravel, little Silt, Cobbles, numerous wood fragments, brick/glass/plastic fragments, moist, moderate naphthalene-like odor	SB-219(1-5)
4			22.9					
6	48	60	798				Gray f-m SAND, little f-c Gravel, wet, NAPL staining, sheen, strong naphthalene-like odor	SB-219(5-10)
8								
10			38.6				Gray CLAY, wet, moderate naphthalene-like odor Black SILT, some f-c Sand, little f-c Gravel, Cobbles, brick/glass/wood fragments, wet, moderate naphthalene-like odor	
12	0	60	NA			NR	No recovery	
14								
16	0	60	NA					
18								
20								

Remarks: Boring Terminated (ft): 100.0

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WH = Weight of Hammer

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-219

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686580.0 **Easting:** 649068.5	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.2	**Drilling Company:** Cascade
Start Date: 6/4/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 5
Finish Date: 6/5/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	30	60	1000+			FILL	Black fine SAND, some Silt, trace f-c Gravel, wet, saturated with NAPL, strong naphthalene-like odor	SB-219(20-26)
24								
26			1000+					
						HOLDER	Brick - Holder Bottom Concrete slab - Holder Bottom	
28	30	60	40.7			FILL	Black WOOD DEBRIS, wet, slight naphthalene-like odor	
30								
32	32	60	1000+			SP	Gray fine SAND, little Silt, wet, saturated with NAPL @ 30-32', coated with TLM @ 32-35', strong naphthalene-like odor	
34								
36							Same as above, trace fine Gravel, NAPL-coated @ 35-37', saturated with TLM @ 37-39', wet, no odor	
38	30	60	1000+					
40			2.8			CL	Gray CLAY, wet, no odor (Intermediate Clay)	

Remarks: Boring Terminated (ft): 100.0

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AECOM Boring and Well Construction Log

BORING #: SB-219

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686580.0 **Easting:** 649068.5	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.2	**Drilling Company:** Cascade
Start Date: 6/4/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 5
Finish Date: 6/5/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	50	60	17.6			CL	Gray CLAY, 1/2" seam of fine Sand @ 42.5 saturated with NAPL, wet, no odor in the Clay	
			311					
44			4.9					
46	51	60	2.6				Gray CLAY, trace fine Gravel @ 45-46', wet, no odor	
48								
50			1.1					
52	30	60	4.8			SW	Gray f-c SAND, trace f-c Gravel, wet, no odor	
54			5.2					
						ML	Brown compact SILT, little f-c Sand, little f-c Gravel, wet, no odor	
56	30	60	3.1			SW	Gray f-c SAND, trace f-c Gravel, wet, no odor	
58								
60			2.6					

Remarks: Boring Terminated (ft): 100.0

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Boring and Well Construction Log

BORING #: SB-219

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686580.0 **Easting:** 649068.5	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.2	**Drilling Company:** Cascade
Start Date: 6/4/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 5
Finish Date: 6/5/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60								
62	30	60	0.9			SW	Gray f-c SAND, some f-c Gravel @ 64-65', wet, no odor	
64			1.2					
66	30	60	1.1			SP	Brwon silty fine SAND, some f-c Gravel, wet, no odor	
68								
70			1.2					
72	30	60	1.3			SW	Brown f-c SAND, some f-c Gravel, Cobbles, wet, no odor	
74			1.3					
76	30	60	1					
78								
80			1.1					

Remarks: Boring Terminated (ft): 100.0

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AECOM Boring and Well Construction Log

BORING #: SB-219

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686580.0 **Easting:** 649068.5	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.2	**Drilling Company:** Cascade
Start Date: 6/4/2019	**Drilling Method:** Sonic Core Barrel	**Water Level (ft):** 5
Finish Date: 6/5/2019	**Borehole Diameter:** 5	**Total Depth (ft):** 100

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80								
82	48	60	1000+			SW	Brown f-c SAND, trace fine Gravel, wet, coated with NAPL, staurated with TLM @ 82.75-83', strong naphthalene-like odor	
84			2.8			ML	Dary gray clayey SILT, 1" f-m Sand @ 84', wet, no odor	
86	42	60	0			CL	Dark gray silty CLAY, shell fragments @ 87.5', mottled red/orange Clay @ 89.5', wet, no odor (Lower Clay)	
88			0					
90								
92	54	60	1000+			SW	Grayish brown f-c SAND, trace f-c Gravel, wet, coated with NAPL, strong naphthalene-like odor	
94			4.9			CL	Dark gray to black dense CLAY, trace fine Gravel @ 94-94.5', wet, no odor	
						ML	Black SILT, 1" lignite @ 90.5', wet, no odor	
96	36	60	0			CL	Gray dense CLAY, wet, no odor (Gardiners Clay)	
98			0					
100								

Remarks: Boring Terminated (ft): 100.0

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WH = Weight of Hammer

AECOM Boring and Well Construction Log

BORING #: SB-220

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686625.8 **Easting:** 649050.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.6	**Drilling Company:** Cascade
Start Date: 6/20/2019	**Drilling Method:** Direct Push Macro Core	**Water Level (ft):** 4
Finish Date: 6/20/2019	**Borehole Diameter:** 2	**Total Depth (ft):** 20

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2						FILL	See TP-206	
4								
6							Not sampled	
8								
10								
12	26	60	1000+				Black f-c SAND, some Silt, little f-c Gravel, brick fragments, wet, saturated with NAPL, strong naphthalene-like odor	SB-220(10-15)
14								
16							Black SILT, little f-c Gravel, wet, saturated with thick NAPL, strong naphthalene-like odor	
18	15	60	1000+					SB-220(15-20)
20								

Remarks: Boring Terminated (ft): 20.0

Boring installed to collect pre-characterization soil samples @10-20'

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

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

WH = Weight of Hammer

AECOM
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Rocky Hill, CT 06067
Phone: (860) 263-5800
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AECOM Boring and Well Construction Log

BORING #: SB-221

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686624.5 **Easting:** 649014.2	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.6	**Drilling Company:** Cascade
Start Date: 6/20/2019	**Drilling Method:** Direct Push Macro Core	**Water Level (ft):** 4
Finish Date: 6/20/2019	**Borehole Diameter:** 2	**Total Depth (ft):** 20

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2							See TP-205	
4								
6							Not sampled	
8								
10								
12	28	60	1000+			FILL	Brick f-c SAND, some Silt, little f-c Gravel, brick/glass fragments, wet coated with NAPL, strong naphthalene-like odor	SB-221(10-15)
14								
16							Same as above, wet, saturated with NAPL, strong naphthalene-like odor	
18	28	60	1000+					SB-221(15-20)
20								

Remarks: Boring Terminated (ft): 20.0

Boring installed to collect pre-characterization soil samples @10-20'

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

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

WH = Weight of Hammer

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AECOM Boring and Well Construction Log

BORING #: SB-222

Client: National Grid	**Location:** 222 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686553.4 **Easting:** 649010.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.4	**Drilling Company:** Cascade
Start Date: 6/20/2019	**Drilling Method:** Direct Push Macro Core	**Water Level (ft):** 4
Finish Date: 6/20/2019	**Borehole Diameter:** 2	**Total Depth (ft):** 20

Depth (ft bgs)	Recovery (inches)	Recovery Length (inches)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	Concrete slab	
2						FILL	See TP-204	
4								
6							Not sampled	
8								
10								
12	36	60	1000+				Black SILT, some f-c Sand, little f-c Gravel, brick fragments, wet, coated with NAPL, strong naphthalene-like odor	SB-222(10-15)
14								
16							Same as above, wet, saturated with NAPL, strong naphthalene-like odor	
18	18	60	1000+					SB-222(15-20)
20								

Remarks: Boring Terminated (ft): 20.0

Boring installed to collect pre-characterization soil samples @10-20'

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

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

WH = Weight of Hammer

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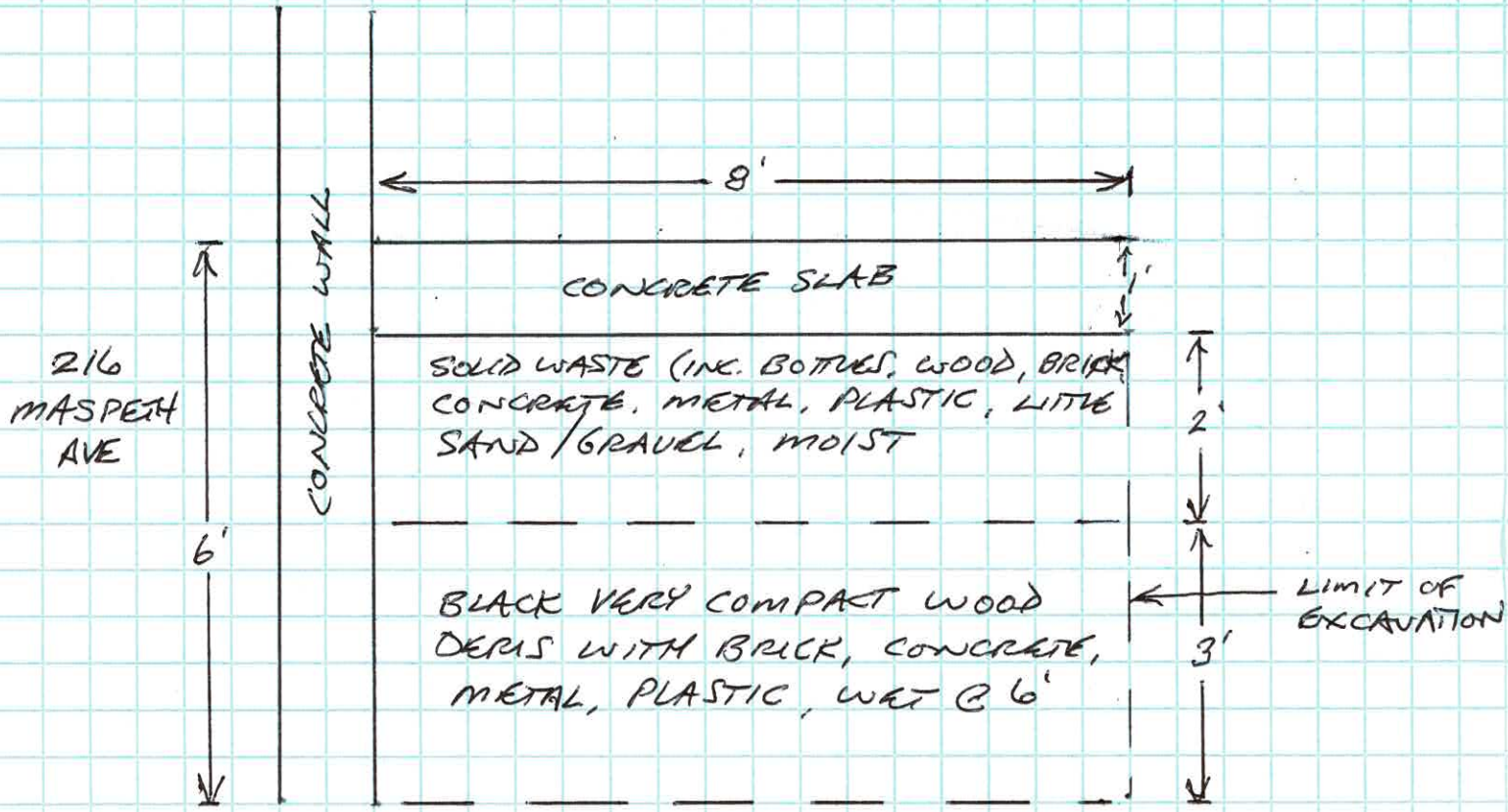
TP-200

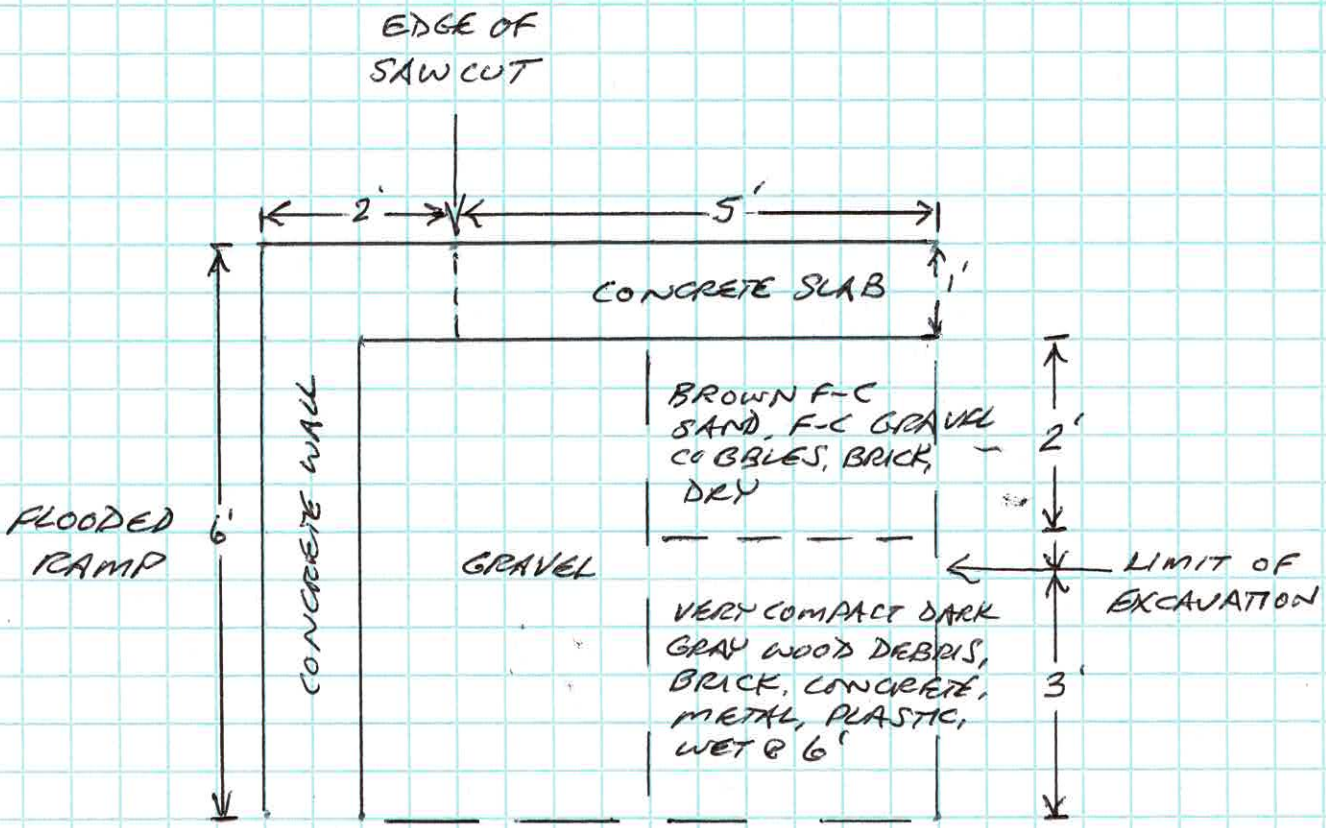
EQUITY MGP
222 MASPETH AVE
BROOKLYN, NY



NOTE: X-SECTION LOOKING NORTH

TP-201

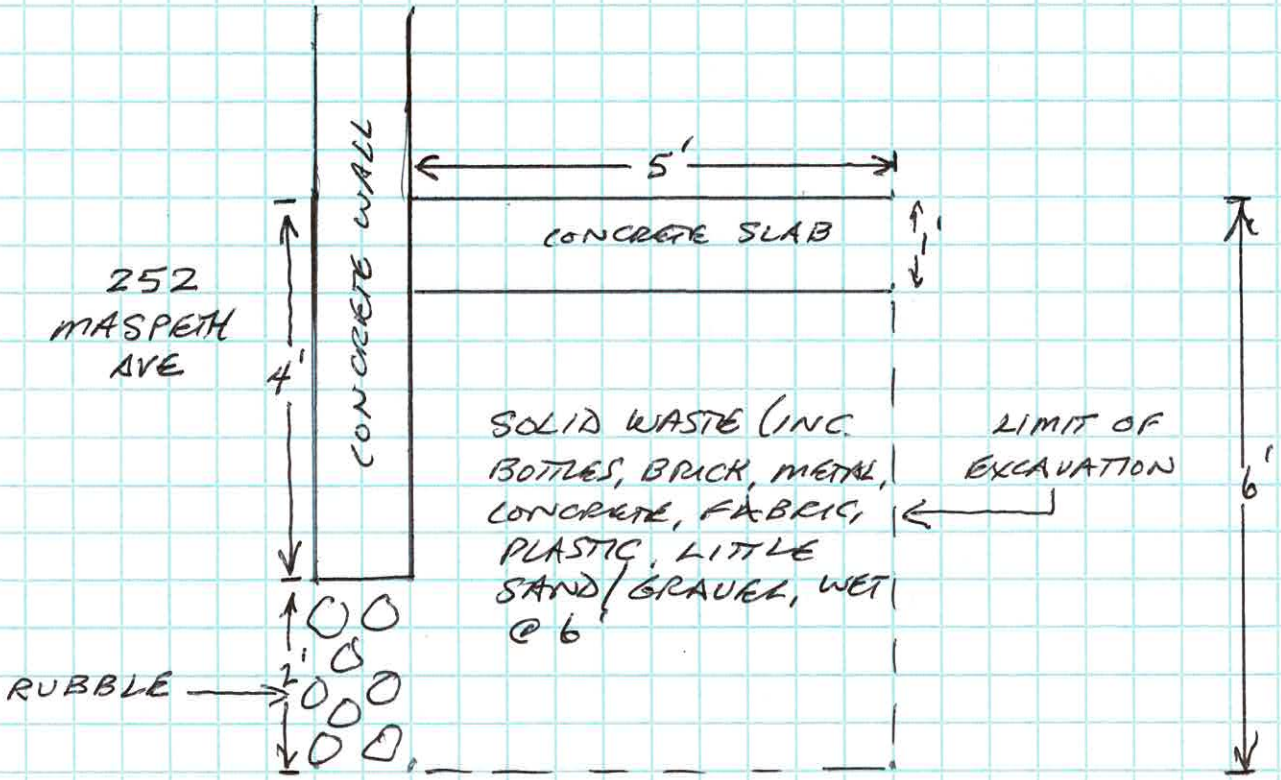
EQUITY MGP
222 MASPETH AVE
BROOKLYN, NY



NOTE: X-SECTION LOOKING NORTH

TP-202

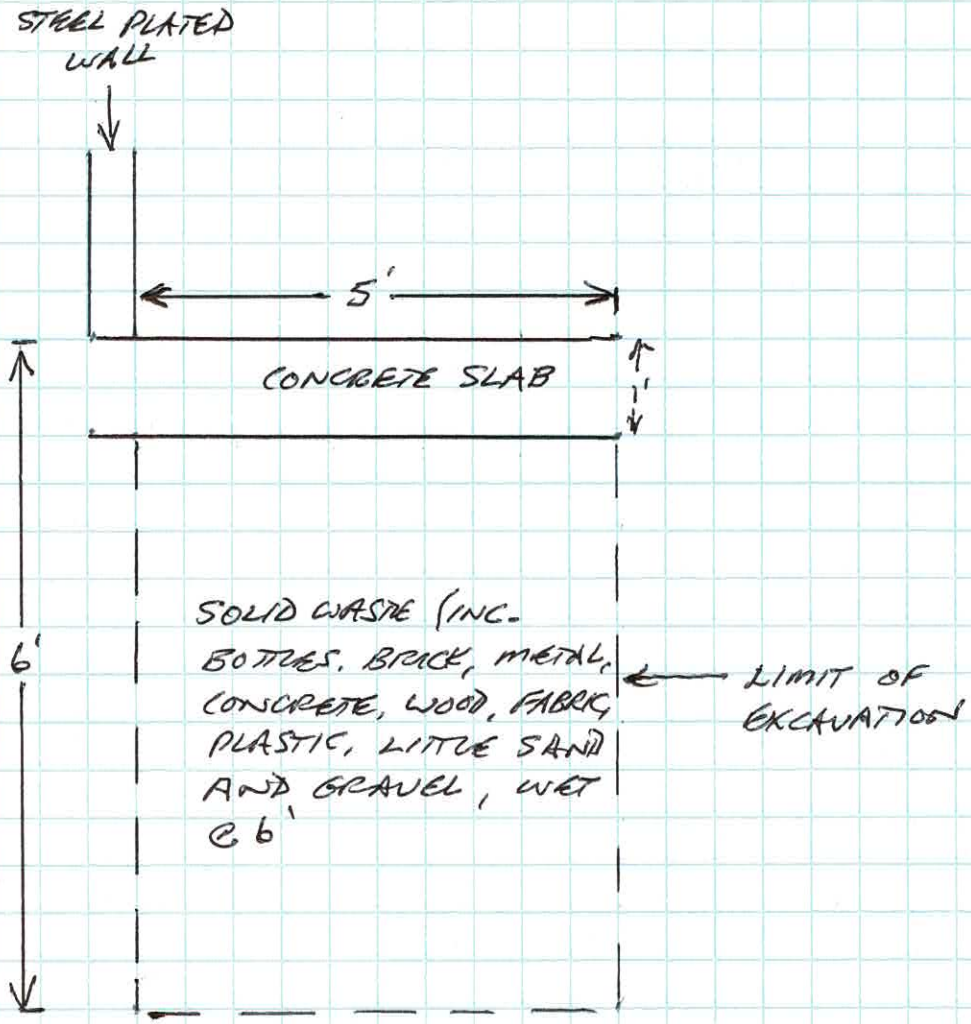
EQUITY MGP
222 MASPETH AVE
BROOKLYN, NY



NOTE: X-SECTION LOOKING SOUTH

TP-203

EQUITY MGP
222 MASPETH AVE
BROOKLYN, NY

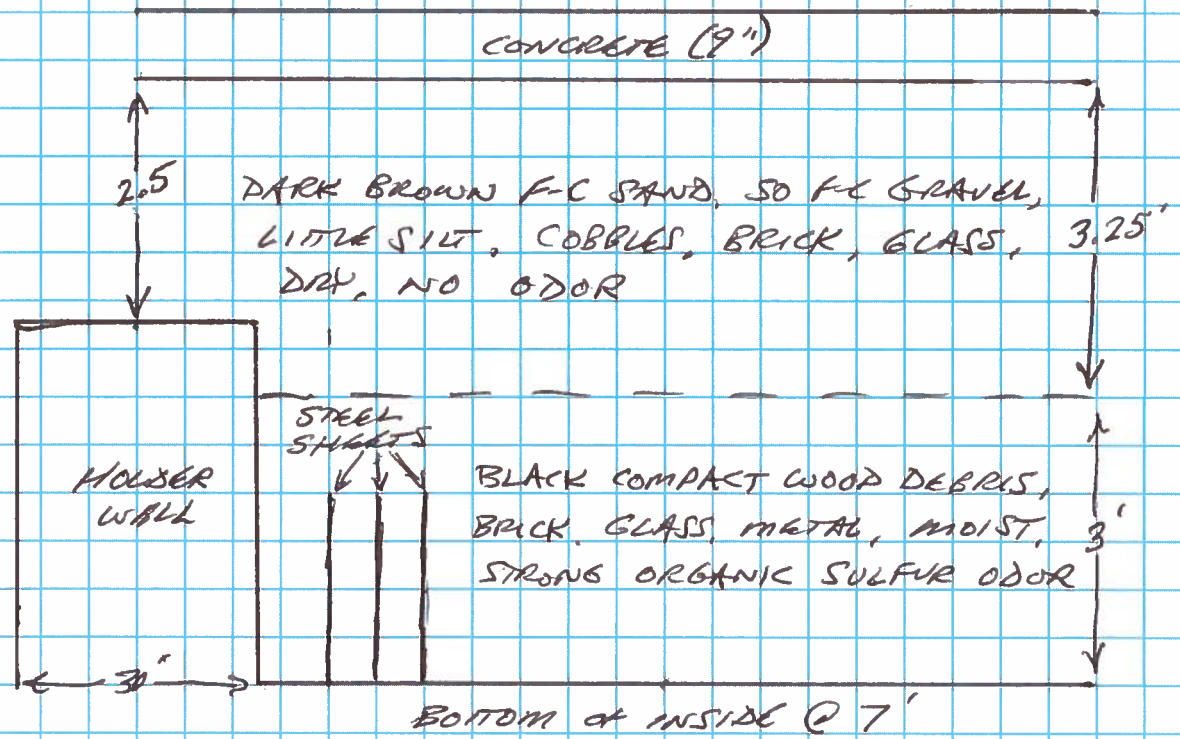


NOTE: X-SECTION LOOKING WEST

AECOM

JOB TITLE EQUITY MGP
JOB NO. 60137362 CALCULATION NO.
ORIGINATOR S. WRIGHT DATE
REVIEWER DATE
SCALE SHEET NO. OF

TEST PIT TP-204



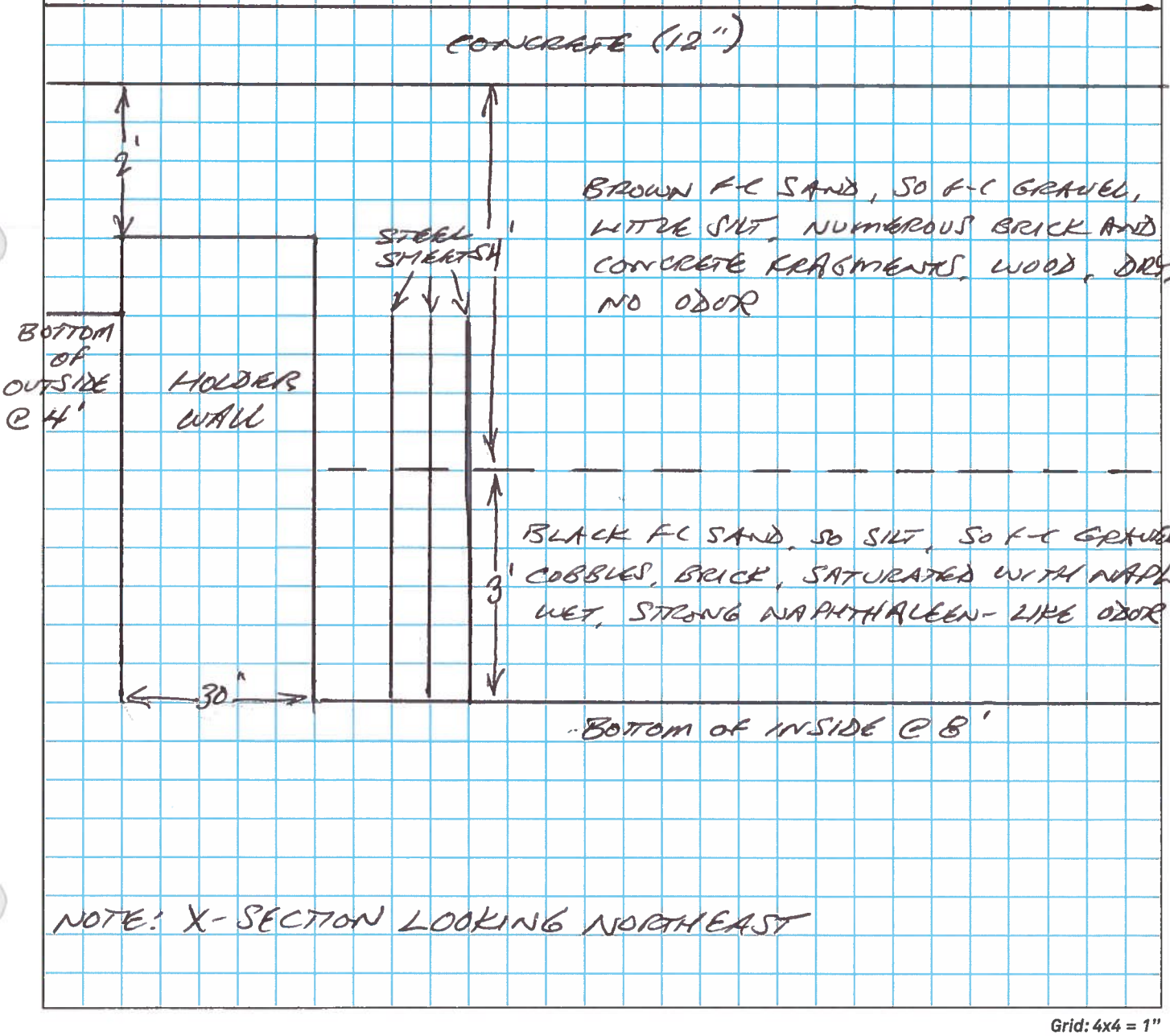
NOTE: X-SECTION LOOKING NORTHWEST
OUTSIDE OF HOLDER WALL NOT OBSERVED

Grid: 4x4 = 1"

AECOM

JOB TITLE EQUITY MGP
JOB NO. 60137362 CALCULATION NO.
ORIGINATOR S. WRIGHT DATE
REVIEWER DATE
SCALE SHEET NO. OF

TEST PIT TP-205



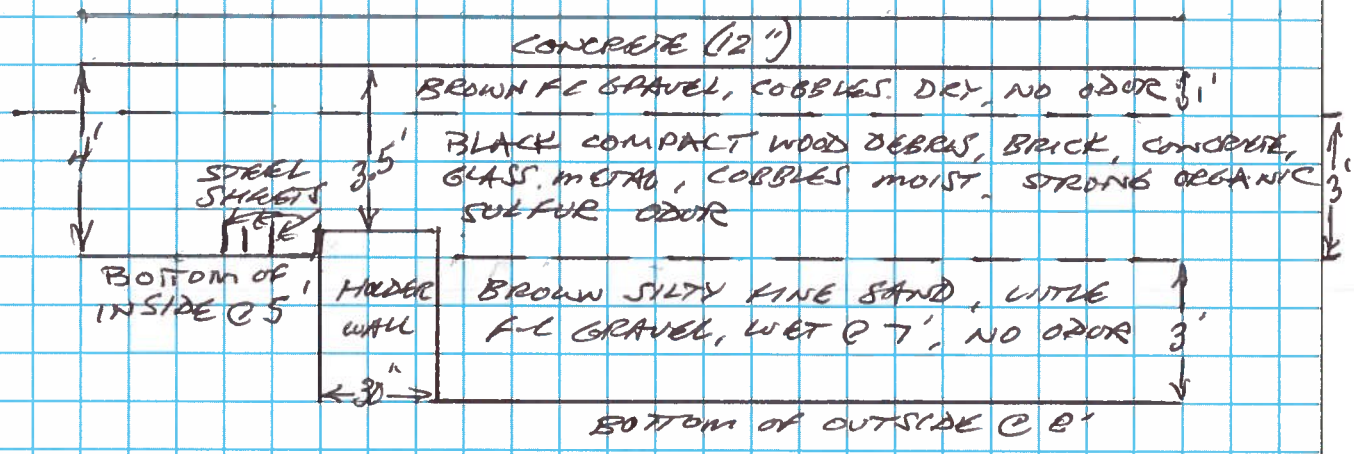
NOTE: X-SECTION LOOKING NORTHEAST

Grid: 4x4 = 1"

AECOM

JOB TITLE EQUITY MGP
JOB NO. 60137362 CALCULATION NO.
ORIGINATOR S. WRIGHT DATE
REVIEWER DATE
SCALE SHEET NO. OF

TEST PIT TP-206



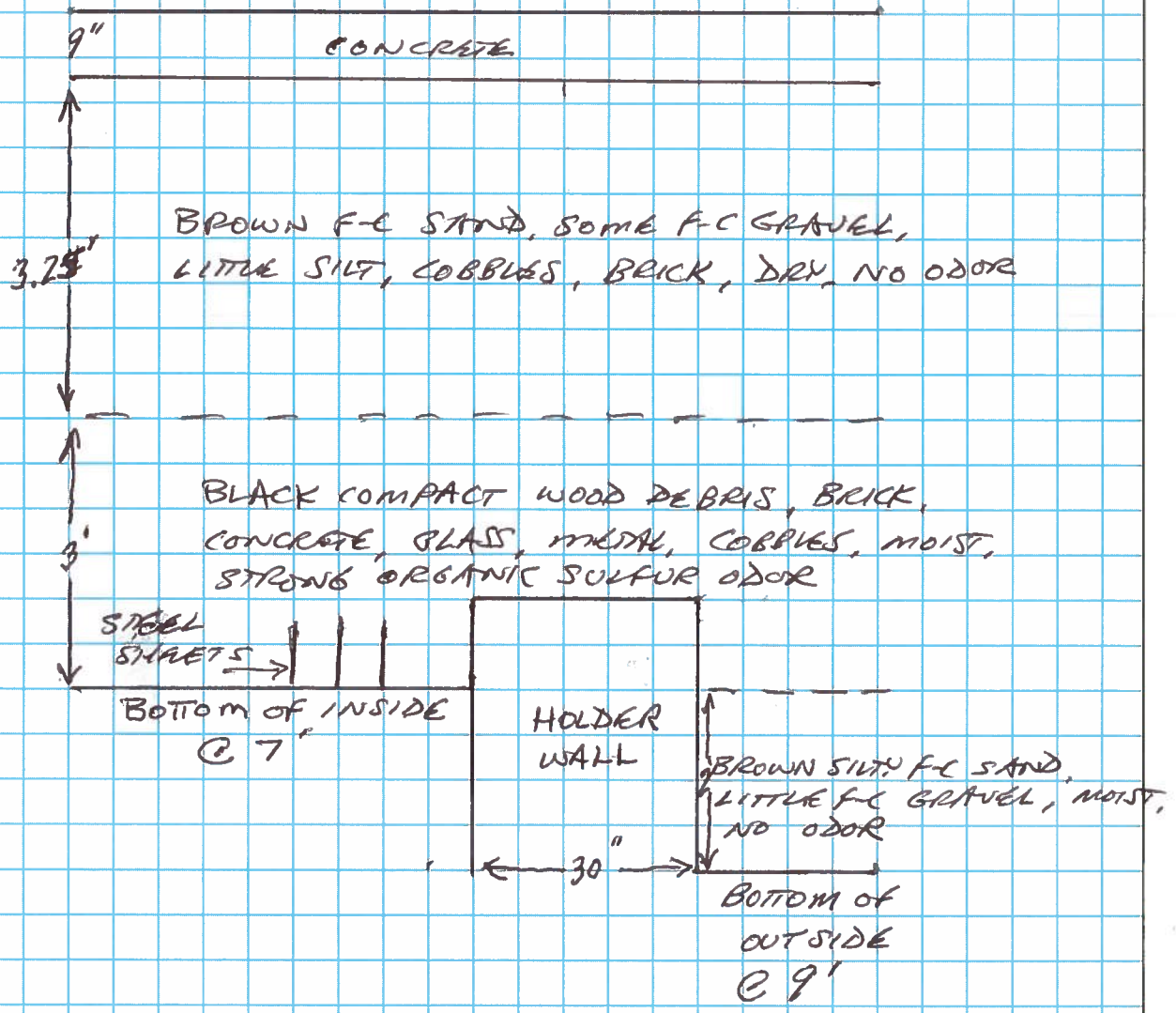
NOTE: X-SECTION LOOKING NORTHWEST

Grid: 4x4 = 1"

AECOM

JOB TITLE EQUITY MGP
JOB NO. 60137362 CALCULATION NO.
ORIGINATOR S. WRIGHT DATE
REVIEWER DATE
SCALE SHEET NO. OF

TEST PIT TP-207



NOTE: X-SECTION LOOKING NORTHEAST

Grid: 4x4 = 1"

Attachment B – Photo Log

287 Maspeth Avenue, Brooklyn, NY

T: 718.608.5102 ■ brian.bermingham@nationalgrid.com ■ www.nationalgrid.com

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PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Former Equity MGP Facility	222 Maspeth Avenue, Brooklyn, New York	60137362

Photo No.	Date:
1	6/7/19

Direction Photo Taken:

Southwest

Description:

View of TP-202

Photo No.	Date:
2	6/7/19

Direction Photo Taken:

West, Down

Description:

View of the wall foundation and rubble in TP-202

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Former Equity MGP Facility	222 Maspeth Avenue, Brooklyn, New York	60137362

Photo No.	Date:
3	6/7/19

Direction Photo Taken:

West, Down

Description:

View of the rubble under the perimeter wall foundation, TP-202

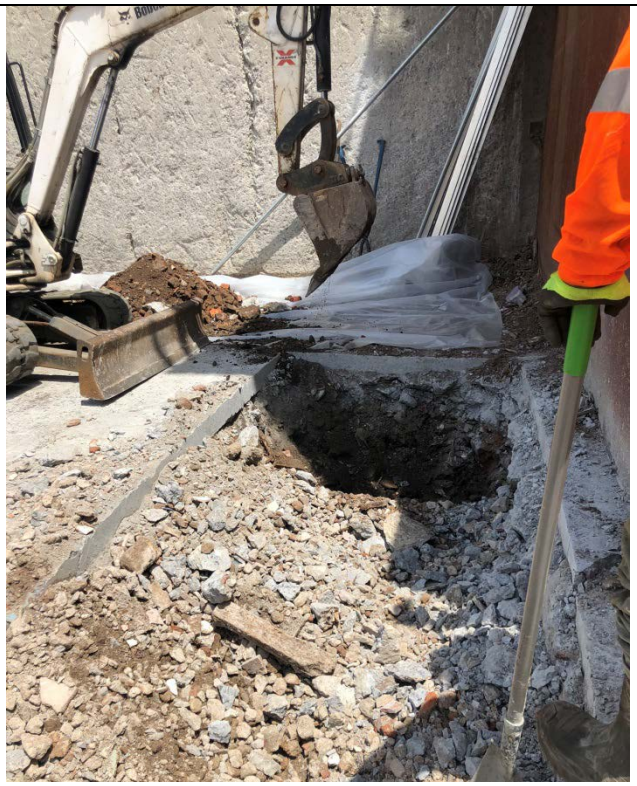
Photo No.	Date:
4	6/7/19

Direction Photo Taken:

West

Description:

View excavation of TP-203



AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Former Equity MGP Facility	222 Maspeth Avenue, Brooklyn, New York	60137362

Photo No.	Date:
5	6/7/19

Direction Photo Taken:

South

Description:

View of fill and rubble near the metal wall structure, TP-203

Photo No.	Date:
6	6/11/19

Direction Photo Taken:

Southeast

Description:

View test pit TP-200 excavation and its contents

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Former Equity MGP Facility	222 Maspeth Avenue, Brooklyn, New York	60137362

Photo No. 7	Date: 6/11/19

Direction Photo Taken:

East

Description:

View stained material and rubble removed from TP-200

Photo No. 8	Date: 6/11/19

Direction Photo Taken:

Down, South

Description:

View of fill and rubble near the perimeter wall in TP-200

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Former Equity MGP Facility	222 Maspeth Avenue, Brooklyn, New York	60137362

Photo No. 9	Date: 6/11/19

Direction Photo Taken:

East

Description:
View test pit TP-201 excavation and its contents

Photo No. 10	Date: 6/11/19

Direction Photo Taken:

South

Description:

View of contents of TP-201 (rebars encountered in the concrete, stone fill near the vertical face along the loading dock)

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Former Equity MGP Facility	222 Maspeth Avenue, Brooklyn, New York	60137362

Photo No.	Date:
11	6/11/19

Direction Photo Taken:

South, Down

Description:

View of the test pit TP-201

Photo No.	Date:
12	6/14/17

Direction Photo Taken:

North

Description:

View of TP-206

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Former Equity MGP Facility	222 Maspeth Avenue, Brooklyn, New York	60137362

Photo No.	Date:
13	6/18/19

Direction Photo Taken:

North

Description:

View of the holder wall in test pit TP-206

Photo No.	Date:
14	6/18/19

Direction Photo Taken:

South, Down

Description:

View of the holder wall, metal bar, and metal rim inside the holder, TP-206

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PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Former Equity MGP Facility	222 Maspeth Avenue, Brooklyn, New York	60137362

Photo No.	Date:
15	6/18/19

Direction Photo Taken:

East, Down

Description:

View of the holder wall in test pit TP-206

Photo No.	Date:
16	6/18/19

Direction Photo Taken:

Northwest

Description:

View of the holder wall and in test pit TP-206

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Former Equity MGP Facility	222 Maspeth Avenue, Brooklyn, New York	60137362

Photo No. 17	Date: 6/19/19

Direction Photo Taken:

Northeast

Description:

View of the test pit TP-205

Photo No. 18	Date: 6/19/19

Direction Photo Taken:

North

Description:

View of the holder wall, metal bars, and metal rib in the test pit TP-205

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PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Former Equity MGP Facility	222 Maspeth Avenue, Brooklyn, New York	60137362

Photo No.	Date:
19	6/19/19

Direction Photo Taken:

North, Down

Description:

View of the holder wall, metal bars, and metal rib in the test pit TP-205

Photo No.	Date:
20	6/19/19

Direction Photo Taken:

North, Down

Description:

View of the impacts in the test pit TP-205

AECOM

PHOTOGRAPH LOG

Facility Name:	Site Location:	Project No.
Former Equity MGP Facility	222 Maspeth Avenue, Brooklyn, New York	60137362

Photo No. 21	Date: 6/20/19

Direction Photo Taken:

Northeast

Description:

View of the test pit TP-207

Photo No. 22	Date: 6/18/19

Direction Photo Taken:

Northeast

Description:

View of the holder wall and in test pit TP-207