New 470 Project
12 ECKFORD STREET
BROOKLYN, KINGS COUNTY, NEW YORK

Final Engineering Report

NYSDEC Site Number: C224242

Prepared for:
New York State Department of Environmental Conservation
Division of Environmental Remediation, Remedial Bureau B
625 Broadway
Albany, New York 12233

Prepared on Behalf of:
New 470 LLC
100 Comac Street
Ronkonkoma, New York 11779

Prepared by:

AKRF, Inc.
440 Park Avenue South, 7th Floor
New York, New York 10016

DECEMBER 2019

CERTIFICATIONS

I, Michelle Lapin, P.E., am currently a registered Professional Engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Action Work Plan was implemented and that all construction activities were completed in substantial conformance with the Department-approved Remedial Action Work Plan.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the Remedial Action Work Plan and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an Environmental Easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the Department.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Michelle Lapin, P.E., of AKRF, Inc. at 440 Park Avenue South, 7th Floor, New York, NY 10016, am certifying as Owner's Designated Site Representative for the site.

Michelle Lapin, P.E.
NYS Professional Engineer No. 073934-1

December 13, 2019
Date

Signature

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LIST OF ACRONYMS

Acronym	Definition
AGVs	Air Guidance Values
ASP	Activated Sodium Persulfate
AST	Aboveground Storage Tank
AWQS	Ambient Water Quality Standards
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
Bgs	Below grade surface
CAMP	Community Air Monitoring Plan
CPP	Citizen Participation Plan
CQAP	Construction Quality Assurance Plan
CVOCs	Chlorinated Volatile Organic Compounds
DD	Decision Document
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Report
EE	Environmental Easement
ELAP	Environmental Laboratory Approval Program
ESA	Environmental Site Assessment
EPA	Environmental Protection Agency
EPH	Extractable Petroleum Hydrocarbons
FDNY	New York City Fire Department
FER	Final Engineering Report
HASP	Health and Safety Plan
HRECs	Historical Recognized Environmental Conditions
ICs/ECs	Institutional Controls/Engineering Controls
ISCO	In-Situ Chemical Oxidization
MFR	Modified Fenton's Reagent
NAVD 88	North American Vertical Datum of 1988
NJDEP	New Jersey Department of Environmental Protection
NJRDCSRS	New Jersey Residential Direct Contact Soil Remediation Standards

Acronym	Definition
NYC	New York City
NYCRR	New York Codes, Rules, and Regulations
NYCDEP	New York City Department of Environmental Protection
NYDOB	New York City Department of Buildings
NYCDOF	New York City Department of Finance
NYCDOT	New York City Department of Transportation
NYCOER	New York City Mayor's Office of Environmental Remediation
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OER	Office of Environmental Remediation
PCE	Tetrachloroethylene
PAHs	Polycyclic Aromatic Hydrocarbons
PBS	Petroleum Bulk Storage Database
PCBs	Polychlorinated Biphenyls
PERM	Sodium Permanganate
PGSCOs	Protection of Groundwater Soil Cleanup Objectives
PID	Photoionization Detector
PM	Project Manager
PPE	Personal Protection Equipment
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
QEP	Qualified Environmental Professional
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RECs	Recognized Environmental Conditions
RCRA	Resource Conservation and Recovery Act
RDI	Remedial Design Investigation
RE	Remedial Engineer
RI	Remedial Investigation

Acronym	Definition
RRSCO	Restricted Residential Soil Cleanup Objectives
RSCO	Residential Use Soil Cleanup Objective
SCO	Soil Cleanup Objective
Sf	Square foot
SMMP	Soil/Materials Management Plan
SMP	Site Management Plan
SOP	Site Operation Plan
SRI	Supplemental Remedial Investigation
SRIWP	Supplemental Remedial Investigation Work Plan
SRS	Soil Remediation Standards
SSO	Site Safety Officer
SVOC	Semivolatile Organic Compound
SWPPP	Storm Water Pollution Prevention Plan
TAL	Target Analyte List
TCE	Trichloroethylene
TCLP	Toxicity Characteristic Leaching Procedure
TICs	Tentatively Identified Compounds
TOGS	Technical and Operational Guidance Series
TWA	Time-Weighted Average
UST	Underground Storage Tank
UUSCO	Unrestricted Use Soil Cleanup Objective
VOC	Volatile Organic Compound

1.0 BACKGROUND AND SITE DESCRIPTION

New 470 LLC entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) on December 1, 2016 (BCA Index No. C224242-10-16) as a Volunteer to investigate and remediate an approximately 0.5123-acre (approximately 22,315-square foot) property located at 12 Eckford Street in the Williamsburg neighborhood of Brooklyn, Kings County, New York (hereinafter referred to as the Site or Controlled Property). The Site was remediated to Track 4 restricted residential use. When completed, the Site will be developed with an 8-story building with mechanical space in the partial cellar on the southwestern portion of the Site, an at-grade parking garage and tenant lobby on the ground floor, and 101 residential units above. Thirty one percent of the residential units will consist of inclusionary housing. An exterior, open-air concrete dog run occupies the northwestern portion of the Site.

The Site is located in the County of Kings, New York and is identified as Brooklyn Block 2714, Lot 33 on the New York City Tax Map. The Site was entered into the BCP in December 2016 as BCP Site No. C224242, Brownfield Cleanup Agreement (BCA) Index No. C224242-10-16. A BCA Amendment Application was submitted to NYSDEC in August 2019 to document the alteration of the northern property boundary, resulting in an acreage increase from approximately 0.497 acres to approximately 0.5123 acres; and the merger of former Lot 33 and a portion of former Lot 1 into Lot 33. The modification reconciled the BCP Site boundary to match the newly merged lot boundary. The metes and bounds description of the Site is included in Appendix A. The Site location is shown on Figure 1 and a Site Plan is provided as Figure 2.

The Site is bounded by residential buildings and a former commercial building currently being used as a construction office for the Site to the north; residential buildings to the east; Newton Street to the southeast; Eckford Street to the west; and Manhattan Avenue to the southwest. The boundaries of the Site are fully described in Appendix A.

An electronic copy of this Final Engineering Report (FER) with all supporting documentation is included as Appendix B.

1.1 Site History

According to historic Sanborn fire insurance maps, the Site was undeveloped until prior to 1905. By 1916, former Lot 1 was developed with an unspecified factory building and former Lot 33 was developed with a barrel shed, a carriage garage, and a cooperage with an office. By 1942, former Lot 1 was developed with a sash and door storage facility and a woodworking shop associated with the north-adjacent I. Feldman & Son Inc. Sash & Door Manufacturer; former Lot 30 was developed with a two-story building used for window sash storage; former Lot 32 was labeled as "barrels, boxes, and automobile" with a gasoline tank on the southwestern portion; and former Lot 33 was developed with a cooperage and an office. By 1951, former Lot 1 was developed with a metal container manufacturer and an enameling works with a baking oven and spray booths and former Lot 30 was labeled "to be: garage". Former Lot 1 was developed with a new factory building in 1963 and with a spray booth and storage on the eastern portion by 1965. By 1965, former Lot 30 was developed as a garage and as a factory by 1978. By 1983, former Lot 32 was used for freight storage and motor freight storage between 1986 and 1991. The Site was vacant circa 2014-2016 and the former buildings were demolished in 2015 and 2016 to support the redevelopment. The surrounding area was developed historically with residential, commercial, educational, manufacturing, automotive, and woodworking uses.

1.2 Geology and Hydrogeology

Prior to development, the stratigraphy of the Site was documented to consist of between approximately 6 and 12 feet of historic fill characterized by sand, gravel, and silt with concrete, asphalt, brick, and ash. Below the fill was an apparent native sand, gravel, and silt stratum to the

termination of each boring (approximately 20 feet below sidewalk grade). Groundwater was encountered between approximately 10 and 12.5 feet below grade during environmental investigations (detailed in Section 1.4). Based on the groundwater elevation measurements collected on June 6, 2016 from the Site and off-site portion of former Lot 1 (north-adjacent to the Site), groundwater flow is generally from east to west beneath the Site (Figure 3).

1.3 Development Plan

The Site is being developed with an 8-story building with mechanical space in the partial cellar on the southwestern portion of the Site, an at-grade parking garage and a lobby on the ground floor, and 101 residential units above. Thirty oney percent of the residential units consist of inclusionary housing. An open-air concrete dog run occupies the northwestern portion of the Site. Development plans are provided as Appendix C.

1.4 Environmental Reports

The following environmental reports were prepared for the Site:

Phase I Environmental Site Assessment (ESA) Report, 470 Manhattan Avenue, Brooklyn, New York, URS Corporation (URS), April 2013

URS prepared a Phase I ESA Report of former Lot 33 in April 2013. The scope of the Phase I ESA included a Site inspection and an evaluation of readily available historical information, selected environmental databases, and electronic records. The assessment identified the following recognized environmental concerns (RECs):

- Former Lot 33 contained an E-Designation for hazardous materials listed in the Department of City Planning E-Designation database, which was established as part of the rezoning of Williamsburg and Greenpoint.
- The surrounding area was developed historically with manufacturing facilities, including an electroplating facility, dry cleaners, a steel company, and Mobil Oil Corporation. These properties were listed in multiple databases with open- and closed-status spills, hazardous waste generation, soil and groundwater contamination and remediation, chemical and petroleum bulk storage (CBS and PBS), and leaking underground storage tanks (LUSTs).

Phase I Environmental Site Assessment Report, 119-125 Newton Street, Brooklyn, New York, Hydrotech Environmental, Corp. (Hydrotech), April 2013

Hydrotech prepared a Phase I ESA Report of former Lots 30 and 32 in April 2013. The scope of the Phase I ESA included a Site inspection and an evaluation of readily available historical information, selected environmental databases, and electronic records. The assessment identified the following RECs:

- Former Lots 30 and 32 contained E-Designations for hazardous materials, established as part of the rezoning of Williamsburg and Greenpoint.
- Historical Sanborn maps dated between 1942 and 2007 identified underground storage tanks (USTs) on former Lot 32.
- Former Lots 30 and 32 were developed historically with a garage, a metal fabrication shop, and a scrap metal yard.

Environmental Summary Report, 470 Manhattan Avenue, Block 2714, Lots 1, 30, 32, and 33, Brooklyn, New York, AKRF, Inc., September 2015

AKRF prepared an Environmental Summary Report of the Site and an off-site portion of former Lot 1 in September 2015. The report included the findings of an inspection and an evaluation of historical Sanborn insurance maps and selected environmental databases. The assessment identified the following RECs:

- The former Site lots contained E-Designations for hazardous materials listed in the Department of City Planning E-Designation database, established as part of the rezoning of Williamsburg and Greenpoint.
- Historical uses of the Site included: unspecified manufacturing, sash and door storage, and a woodworking shop associated with the I. Feldman & Son Inc. Sash & Door Manufacturer, a metal container manufacturer, and an enameling works with a baking oven and spray booths on former Lot 1; a garage and an unspecified factory on former Lot 30; a motor freight facility with a gasoline UST on former Lot 32; and a barrel shed, a carriage garage, and a cooperage on former Lot 33.
- An oil burner switch was observed on the wall of a former partially demolished Site building on former Lot 30; however, no tank was observed.
- The area surrounding the Site was developed historically with manufacturing, automotive, and woodworking uses, including: the Joseph Goetz Manhattan Cabinet Works, the I. Feldman Sash and Door Manufacturer, unspecified manufacturing and warehouses, textile printing, cloth combining, a wire spring manufacturer, a cabinet finisher, a tin smith, a fuel oil company, a blacksmith, the George N. Gardiner & Son Marine Paint Manufacturer, a beverage bottling, junk storage, Meisel Danowitz & Company with associated planning and molding facilities, lumber storage and yards, kilns, cooperages, Atlantic Hardwood Company, an iron pipe warehouse, a metal works, lacquer spraying, a machine shed and shop, a motor grinder, a motor freight station, garages with gasoline tanks, trucking and parking facilities, tractor storage, a truck bay, and automotive repair and washing, and gasoline filling stations. Additionally, several properties in the surrounding area were listed in the Resource Conservation and Recovery Act (RCRA), PBS, Spills, E-Designation, and LUST databases. A groundwater monitoring well was observed east of the Site in the Graham Avenue sidewalk. The purpose of the monitoring well was not able to be ascertained, but was noted to be possibly related to current or historical off-site uses. A vent pipe and a fill port for No. 2 fuel oil were observed on the northeastern exterior wall of an off-site, three-story residential building on former Lot 1, north-adjacent to the Site. Minor staining was observed around the fill port.

Phase II Work Plan (Short Form), 470 Manhattan Avenue, Block 2714, Lots 1, 30, 32, and 33, Brooklyn, New York, AKRF, Inc., September 2015

AKRF prepared a Phase II Work Plan and associated Health and Safety Plan (HASP) for the Site and an off-site portion of former Lot 1 (also owned by the Volunteer) in September 2015. The work plan proposed sampling locations and included the installation of 10 soil borings with the collection and laboratory analysis of 20 soil samples, the installation of five temporary groundwater monitoring wells with the collection and installation of five groundwater samples, and the installation of seven temporary soil vapor points with the collection and analysis of seven soil vapor points and 1 ambient air sample. The HASP provided Site-specific health and safety measures to be employed during implementation of the investigation. The scope of the investigation was based on the previous reports for the Site.

Remedial Investigation (RI) Report (RIR), 470 Manhattan Avenue, Block 2714, Lots 1, 30, 32, and 33, Brooklyn, New York, AKRF, Inc., October 2015

AKRF conducted an RI for the Site and an off-site portion of former Lot 1 (also owned by the Volunteer) and prepared an RIR in October 2015. The RI was conducted in accordance with the New York City Office of Environmental Remediation (NYCOER)-approved September 2015 Phase II Work Plan. Soil/fill beneath the Site consisted of approximately 12 feet of fill material characterized by sand, gravel, silt, concrete, asphalt, brick, and ash, underlain by apparent native sand, gravel, and silt. Groundwater was encountered between approximately 10 and 12 feet below surface grade.

The RIR concluded that some elevated concentrations of volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals, and polychlorinated biphenyls (PCBs) were detected in on- and off-site soil/fill samples. The VOC methyl tert-butyl ether (MTBE), SVOCs, and metals were detected in on-site groundwater at concentrations above their applicable standards [Ambient Water Quality Standards and Guidance Values (AWQSGVs)]; and the VOC 1,1-dichloroethane (1,1-DCA), metals, and the pesticide chlordane were detected in groundwater beneath the off-site portion of former Lot 1 at concentrations above their respective AWQSGVs. VOCs associated with petroleum were detected at concentrations up to 279 micrograms per cubic meter ($\mu g/m^3$) and solvent-related VOCs were detected at concentrations up to 2,580 $\mu g/m^3$. The highest concentrations of both chlorinated solvent- and petroleum-related VOCs were detected in the soil vapor samples collected on-site.

Remedial Action Work Plan (RAWP), 470 Manhattan Avenue, Block 2714, Lots 1, 30, 32, and 33, Brooklyn, New York, AKRF Engineering, P.C., October 2015

AKRF prepared a RAWP for the Site and an off-site portion of former Lot 1 (also owned by the Volunteer) in October 2015. The RAWP outlined the remedial action objectives (RAOs) and established procedures and cleanup objectives for the protection of public health and the environment, Track 4 soil cleanup objectives (SCOs), and soil/fill handling procedures. The RAWP also specified the installation of a vapor barrier and an active sub-slab depressurization system (SSDS) to address potential vapor intrusion into the Site building, a Site-wide composite cover system to prevent direct exposure to residual contamination in soil, and outlined a project schedule for construction. The RAWP and associated Stipulation List were approved by NYCOER in November 2015.

Delineation Sampling Work Plan, 470 Manhattan Avenue, Block 2714, Lots 1, 30, 32, and 33, Brooklyn, New York, AKRF, Inc., February 2016

AKRF prepared a Delineation Sampling Work Plan in February 2016 to establish a sampling protocol to delineate the solvent-related VOC contamination identified in soil vapor on the northeastern and eastern portions of the Site during the RI. The work plan was developed in response to AKRF's November 2015 RIR and a telephone conference with representatives of NYCOER. The work plan proposed sampling locations and included the installation of three soil borings with continuous sample collection and laboratory analysis of three soil samples, and the installation of four soil vapor points with collection and laboratory analysis of four soil vapor samples.

The results of the delineation sampling, which were submitted to NYCOER in an email dated April 20, 2016 and discussed in a conference call on May 3, 2016, did not identify elevated concentrations of VOCs in soil. Of note in soil vapor, tetrachloroethylene (PCE) was detected at concentrations up to 956 $\mu g/m^3$, trichloroethylene (TCE) was detected at concentrations up to 1,120 $\mu g/m^3$, 1,1-DCA was detected at concentrations up to 9,230 $\mu g/m^3$, and 1,1,1-trichlorethane (1,1,1-TCA) was detected at concentrations up to 37,300 $\mu g/m^3$.

Supplemental Remedial Investigation (SRI) and Soil Vapor Extraction (SVE) Pilot Test Work Plan, 12 Eckford Street (470 Manhattan Avenue), Brooklyn, New York, AKRF, Inc., May 2016

AKRF prepared an SRI and SVE Pilot Test Work Plan and associated HASP for the Site, an off-site portion of former Lot 1, and the east-adjacent lot (off-site Lot 29) in May 2016. The work plan proposed sampling locations and included: installation of eight soil borings with continuous sample collection and laboratory analysis of eight soil samples, installation of four temporary groundwater monitoring wells with collection and laboratory analysis of four groundwater samples, and installation of three temporary soil vapor points with collection and laboratory analysis of three soil vapor samples and one ambient air sample. The work plan also included the installation of two SVE wells and three clustered soil vapor points for use during an SVE pilot test, which was conducted to establish the necessary quantity and location of extraction wells, and optimize the design of a full-scale SVES. As part of the pilot test, six influent vapor samples were collected for laboratory analysis of VOCs. The associated HASP provided Site-specific health and safety measures to be employed during implementation of the investigation. The scope of the investigation was based on the previous reports for the Site.

Supplemental Remedial Investigation Report (SRIR), 12 Eckford Street (470 Manhattan Avenue), Brooklyn, New York, AKRF, Inc., July 2016

AKRF conducted an SRI at the Site and off-site portion of former Lot 1 in June 2016. The SRI was conducted in accordance with the AKRF's May 2016 SRI and SVE Pilot Test Work Plan and associated HASP, with the exception of the following deviations: the east-adjacent Lot 29 was inaccessible at the time of the investigation; therefore, the soil vapor points proposed in the rear yard were relocated west of the proposed locations onto former Lot 33 on the eastern portion of the Site; and the sub-slab soil vapor point and indoor air sample were not collected and an indoor air quality survey was not conducted proposed on Lot 29 due to access issues. Soil/fill beneath the Site consisted of approximately 12 feet of fill material characterized by sand, gravel, silt, concrete, asphalt, brick, and ash, underlain by apparent native sand, gravel, and silt. Groundwater was encountered between approximately 10 and 12 feet below grade.

Soil and groundwater samples were analyzed for VOCs. The SRI did not identify elevated concentrations of VOCs in on- or off-site soil samples. The VOC MTBE was detected above its AWQSGV in one on-site groundwater sample, and several VOCs were detected above applicable standards in two off-site groundwater samples.

A review of the soil vapor sample analytical results identified 22 VOCs in the three soil vapor samples collected on-site and from an off-site portion of former Lot 1. VOCs associated with petroleum [including benzene, toluene, ethylbenzene, xylenes (collectively referred to as BTEX), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 2-butanone, 2-hexanone, cyclohexane, ethanol, tert-butyl alcohol, n-hexane, o-xylene, and 4-ethyltoluene] were detected at concentrations up to 1,680 µg/m^3 in the on-site soil vapor sample and chlorinated volatile organic compounds (CVOCs) (including PCE, 1,1,1-TCA, and 1,1-DCA) were detected at concentrations up to 92.8 µg/m^3 in an off-site soil vapor sample.

Soil Waste Classification Report, 12 Eckford Street (470 Manhattan Avenue), Brooklyn, New York, AKRF, October 2016

AKRF conducted waste classification sampling at the Site in October 2016 to obtain off-site disposal acceptance for soil/fill excavated during development. The waste classification sampling included the excavation of three test pits to approximately 12 feet below grade at the location of the partial cellar, and four test pits to approximately 4 feet below grade at the location of the slab-on-grade portion of the Site building. Prior to test pit excavation, a geophysical survey was

conducted across the entire Site to clear the proposed test pit locations of utilities and subsurface obstructions, and to locate potential USTs in the Site subsurface.

The geophysical survey identified an approximately 7-foot by 5-foot metallic anomaly on the southwestern portion of the Site at the approximate location of the gasoline UST shown on historical Sanborn maps. The results of the waste classification sampling identified some elevated levels of SVOCs, pesticides, metals, and hexavalent chromium in Site soil/fill. One test pit excavated at the eastern portion of the partial cellar contained lead at concentrations exceeding the United States Environmental Protection Agency (USEPA) hazardous waste threshold.

Remedial Action Work Plan – New 470 Project, 12 Eckford Street (470 Manhattan Avenue), AKRF, November 2016

In 2016, the Site enrolled in the New York State BCP (BCP Site No. C224242). AKRF prepared a NYSDEC RAWP for the Site in November 2016. After the Site was accepted into the BCP, NYSDEC became the primary agency overseeing remediation, with the NYSDEC RAWP superseding the October 2015 NYCOER-approved RAWP. The RAWP outlined the RAOs, which established procedures and cleanup objectives for the protection of public health and the environment. Similar to the October 2015 RAWP, the November 2016 RAWP established Track 4 SCOs and soil handling procedures, required the installation of a vapor barrier and active SSDS to address potential vapor intrusion into the Site building, a Site-wide composite cover system to prevent direct exposure to residual contamination in soil, and outlined a project schedule for construction. The November 2016 RAWP also required the installation of an SVES and noted that any petroleum storage tanks and/or soil exceeding hazardous waste criteria would be properly removed. The RAWP and associated Decision Document (DD) were approved by NYSDEC and New York State Department of Health (NYSDOH) in December 2016.

Soil Lead Delineation Report – 12 Eckford Street (470 Manhattan Avenue), Brooklyn, NY, AKRF, Inc., May 2018

AKRF conducted soil sampling at the Site to delineate the soil exceeding the hazardous waste criteria for lead, which was identified during soil waste classification sampling in 2016. The sampling included excavation of four test pits around the location where hazardous lead levels were previously detected, with the collection and laboratory analysis of 16 soil samples. Laboratory analysis indicated that none of the soil samples exceeded hazardous waste criteria, indicating that the limited hazardous lead hotspot had been delineated and confirmed to the area of the initial sample (collected in 2018).

Phase I Environmental Site Assessment Report, 12 Eckford Street (470 Manhattan Avenue), Brooklyn, New York, AKRF, Inc., May 2018

AKRF prepared a Phase I ESA Report for the Site in May 2018. The scope of the Phase I ESA included a Site inspection and an evaluation of readily available historical information, selected environmental databases, and electronic records. The assessment identified the following RECs:

- Historical uses of the Site had affected subsurface conditions. Based on the potential for contamination identified during environmental review for a 2005 rezoning, the Property was assigned hazardous materials and air quality E-Designations. Based on investigations conducted in 2015 and 2016, the Site entered into the BCP in 2016. Previous environmental investigations identified: fill materials containing elevated concentrations of various contaminants (primarily SVOCs and metals); groundwater containing elevated concentrations of the gasoline additive MTBE, SVOCs and metals; and VOCs, primarily those associated with chlorinated solvents, in soil vapor. In addition, a hotspot of soil exceeding hazardous waste criteria for lead was identified in 2016 and delineated in 2018.

- Computerized New York City Buildings Department (NYCDOB) records identified evidence of historical fuel oil use at the Site and a gasoline UST associated with a garage was identified on the southeastern portion of the Site on historical Sanborn maps.
- The surrounding area historically included factories, a tinsmith, a fuel oil facility, and garages and filling stations with gasoline USTs. Of note, the north-adjacent property was historically used for various factories, including a backing and coating factory, textile production and printing, lamp manufacturing, enameling, leather goods and purse production, woodcraft, and box dies manufacturing. Additionally, the regulatory database identified PBS facilities, a closed-status spill listing, and New York City Voluntary Cleanup Program (VCP) sites in close proximity to the Site.

The Phase I ESA Report identified a potential for subsurface vapors, and thus a potential for vapor migration into future buildings at the Property. The Phase I ESA Report provided recommendations, including conducting remediation and development in accordance with the requirements of the NYSDEC-approved RAWP.

Draft Site Management Plan, 12 Eckford Street (470 Manhattan Avenue), Brooklyn, New York, AKRF, Inc., August 2019

AKRF prepared a Draft Site Management Plan (SMP) for the Site in August 2019. The SMP was prepared to manage remaining contamination at the Site until the EE is extinguished and included Site-specific implementation procedures for the ICs and ECs required by the EE, including use restrictions and detailed media-specific maintenance requirements to ensure the ICs and ECs remain in-place and effective. The SMP is provided as Attachment D.

Environmental Easement, 12 Eckford Street (470 Manhattan Avenue), Brooklyn, New York, AKRF, Inc., August 2019

On September 5, 2019, the Environmental Easement (EE) for the Site was recorded with the Office of the City Register of Brooklyn/Kings County (CFRN 2019000281480). The EE prevents any future exposure to any residual contamination remaining at the Site by providing enforceable means of Site use and ensuring the performance of operation, maintenance, and monitoring requirements; and ensuring the restriction of future uses of the land inconsistent with the approved uses.

2.0 SUMMARY OF THE SITE REMEDY

2.1 Remedial Action Objectives (RAOs)

Based on the results of the RI, delineation sampling, and SRI, the following RAOs were identified for the Site:

Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater.

RAOs for Environmental Protection

- Restore groundwater aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Remove the source of groundwater contamination.

Soil/Fill

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil/fill.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil/fill.

RAO for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

Soil Vapor

RAO for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into the building at the Site.

2.2 Description of Selected Remedy

The Site was remediated in accordance with the remedy selected by NYSDEC and outlined in the November 2016 RAWP and Decision Document (DD). The NYSDEC approval of the RAWP and DD is provided in Appendix D. The factors considered during the selection of the remedy are those listed in 6 New York Codes, Rules, and Regulations (NYCRR) 375-1.8. The following are the components of the selected remedy:

1. Excavation and off-site disposal of soil/fill above RRSCOs across the upper 2 feet of the entire Site for the installation of the composite cover system. Additionally, soil/fill exceeding the United States Environmental Protection Agency (USEPA) and 6 NYCRR Part 371 hazardous criteria for lead and removal of one UST and its contents were disposed of off-site in accordance with applicable federal, state, and local regulations.

2. Screening for indications of contamination [by visual means, odor, and monitoring with photoionization detector (PID) equipped with an 11.7 electron Volt (eV) lamp] of all excavated soil/fill during intrusive Site work.
3. Collection and laboratory analysis of 24 Site-wide endpoint samples to document concentrations of contaminants of concern remaining after excavation for the new building foundation for the purposes of Site management and five UST endpoint samples from the tank grave following its removal.
4. Importation of virgin quarried stone in compliance with all federal, state, and local rules and regulations for handling and transport of material for use as part of the composite cover system.
5. Installation of a vapor barrier/waterproofing membrane beneath the partial cellar and slab-on-grade building slabs, and outside of the sub-grade foundation sidewalls of the cellar to grade to mitigate soil vapor migration into the building. The vapor barrier system consists of Grace Preprufe® 300R and Bituthene® 4000 beneath the cellar, other sumps/pits, along subgrade walls, and elevator pits; and Stego® Wrap 20 mil beneath the slab-on-grade portion of the building slab. The vapor barrier and waterproofing membranes meet the American Society for Testing and Materials (ASTM) E-1745 standard.
6. Installation of an active sub-slab depressurization system (SSDS) beneath the slab-on-grade portion of the Site to prevent vapor intrusion into the proposed building.
7. Installation of a soil vapor extraction (SVE) system (SVES) on the northeastern and eastern portions of the Site to extract and treat contaminated vapors in the Site subsurface prior to discharge to the atmosphere.
8. Construction and maintenance of an engineered composite cover system consisting of concrete building foundations, a minimum two-foot clean fill buffer with demarcation barrier in all landscaped and non-covered areas, and sidewalks/pathways to prevent human exposure to residual contaminated soil/fill remaining under the Site.
9. Recording of an Environmental Easement (EE), including Engineering Controls (ECs) and Institutional Controls (ICs), to prevent future exposure to any residual contamination remaining at the Site.
10. Preparation of a Site Management Plan (SMP) for long-term management of residual contamination as required by the EE, including plans for: (1) ICs and ECs, (2) monitoring, (3) operation and maintenance, and (4) reporting.

3.0 DESCRIPTION OF REMEDIAL ACTIONS (RAS) PERFORMED

RAs were completed between June 2018 and October 2019 in accordance with the Site-specific November 2016 NYSDEC-approved RAWP. The remedy for the Site was performed as a single project; therefore, no interim remedial measures (IRMs), operating units (OUs), or separate construction contracts were performed. All deviations from the RAWP are described in Section 3.9 of this FER. As described in Section 3.9, none of the deviations affected achievement of the RAOs outlined in the RAWP and DD.

3.1 Governing Documents

3.1.1 Site-Specific Health & Safety Plan (HASP)

The HASP was included in Appendix J of the RAWP. All remedial work performed under the RA was in full compliance with governmental requirements, including Site and worker safety requirements mandated by federal Occupational Safety and Health Administration (OSHA) requirements. The HASP was complied with for all applicable remedial and invasive work performed at the Site.

3.1.2 Quality Assurance Project Plan (QAPP)

The QAPP was included in Appendix K of the RAWP. The purpose of the QAPP was to establish policies, objectives, organization, functional activities, and quality assurance/quality control (QA/QC) activities designed to achieve the project data quality objectives. The QAPP was complied with for all applicable remedial and invasive work performed at the Site.

3.1.3 Construction Quality Assurance Plan (CQAP)

The CQAP was included in Appendix K of the RAWP. The purpose of the CQAP was to manage performance of the RA tasks through designed and documented QA/QC methodologies applied in the field and in the laboratory. The CQAP provided a detailed description of the observation and testing activities that were used to monitor construction quality and confirm that remedial construction was in conformance with the remediation objectives and specifications. The CQAP was complied with for all applicable remedial and invasive work performed at the Site.

3.1.4 Soil/Materials Management Plan (S/MMP)

An S/MMP was included in Section 5.4 of the RAWP. The S/MMP established procedures and methods for managing all soils/materials that were disturbed at the Site, including excavation, handling, storage, transport, and disposal. The S/MMP was implemented during material handling conducted under the remedial work to assure effective, nuisance free performance of soil management work in compliance with all applicable federal, state, and local laws and regulations. The S/MMP was complied with for all applicable remedial and invasive work performed at the Site.

3.1.5 Stormwater Pollution Prevention Plan (SWPPP)

Based on a review of New York City Department of Environmental Protection (NYCDEP) sewer mapping and the size of the Site, an SWPPP was not required. The erosion and sediment controls for all remedial construction were performed in conformance with requirements presented in the New York State Guidelines for Urban Erosion and Sediment Control. Sediment control measures were installed at the Site prior to conducting ground-intrusive work in accordance with all applicable or relevant and appropriate federal, state, and local laws. The measures provided for abatement and control of environmental

pollution arising from proposed remediation and construction activities. The control measures included: procedures for perimeter Site controls, stabilized construction pads at each construction entrance, equipment decontamination, drainage inlet protection, and airborne particulate suppression. Designated personnel under the direct supervision of the Remedial Engineer (RE) conducted routine inspections and any repairs and/or maintenance of control measures were completed in a timely fashion to maintain the controls in proper working order. All vehicles leaving the Site were inspected to ensure that no soil adhered to the wheels or undercarriage of the vehicle leaving the Site. Any situations involving material spilled in transit, or dirt tracked off-site were immediately remedied. The access routes were routinely inspected for road conditions, overhead clearance, and weight restrictions. Road maintenance, including sweeping, was performed on an as-needed basis during all applicable remedial and invasive work performed at the Site.

3.1.6 Community Air Monitoring Plan (CAMP)

The CAMP was included in Appendix J of the RAWP. The purpose of the CAMP was establish air quality monitoring procedures and action limits in the vicinity of remedial activities, including for: airborne particulates concentrations, VOC concentrations, nuisance odors, and inspection and monitoring of the contractor's work practices were ongoing during the completion of remedial work. Proactive misting of the Site was conducted, weather-permitting, and response actions were implemented in response to CAMP exceedances.

Community air monitoring consisted of two fixed, automated stations to continuously log both instantaneous values and 15-minute time-weighted average (TWA) values for VOCs and particulates with a MiniRAE 3000 PID equipped with an 11.6 electron Volt (eV) lamp and TSI 8530 DustTrak particulate meter, respectively. The stations were generally located upwind and downwind of the intrusive work, along the perimeter of the Site. Station locations were determined prior to the start of work each day, depending on the location of work and wind direction, and were adjusted throughout the day. The CAMP station locations were presented in each daily report, which are included in Appendix E. The CAMP was complied with for all applicable remedial and invasive work performed at the Site.

3.1.7 Work Zone Air Monitoring

Roving (work zone) air monitoring was also performed periodically (at a minimum once per hour) during all ground-intrusive work except during periods of precipitation using a PID equipped with an 11.7 eV lamp and a particulate meter to address the health and safety concerns during RA implementation; and to monitor air quality within the breathing zone. Work zone air monitoring logs are provided in Appendix F.

3.1.8 Contractors Site Operations Plans (SOPs)

The RE reviewed all plans and submittals for the remedial project (i.e., those listed above plus contractor and subcontractor submittals) and confirmed that they were in compliance with the RAWP. All remedial documents were submitted to NYSDEC and NYSDOH in a timely manner and prior to the start of work.

3.1.9 Community Participation Plan (CPP)

A CPP was submitted to NYSDEC and NYSDOH for review in October 2016. A Fact Sheet describing the approved plan for RA was forwarded to persons on the contact list in accordance with the NYSDEC- and NYSDOH-approved CPP.

A certification of mailing was sent by the Applicant to the NYSDEC project manager following the distribution of all Fact Sheets and notices that included: (1) certification that the Fact Sheets were mailed; (2) the date they were mailed; (3) a copy of the Fact Sheet; and (4) a list of recipients (contact list).

No changes were made to approved Fact Sheets after authorization of release was granted by NYSDEC. No other information, such as brochures or flyers, was included with the Fact Sheet mailing.

Document repositories were established at the following location and contain all applicable project documents:

In-Text Table 1
Document Repositories

Greenpoint Branch Brooklyn Public Library 107 Norman Avenue Brooklyn, New York 11222	Brooklyn Community Board 1 435 Graham Avenue Brooklyn, New York 11211

3.2 Remedial Program Elements

3.2.1 Contractors and Consultants

- AKRF, Inc. (AKRF) served as the environmental consultant and Qualified Environmental Professional (QEP) responsible for oversight and performance of the remedial work with respect to the NYSDEC-approved RAWP and DD under the oversight of the RE.
    - The RE was Michelle Lapin, P.E., of AKRF. Ms. Lapin is a registered P.E. licensed by the State of New York (License No. 073934-1) and had primary responsibility for implementation of the remedial program for the Site.
    - The project director was Marc Godick, LEP. Mr. Godick was responsible for the general oversight of all aspects of the project, including budgeting, data management, and field program decision-making. The project director communicated regularly with all members of the AKRF project team and the NYSDEC to ensure a smooth flow of information between involved parties.
    - The project manager was Amy Jordan. Ms. Jordan's primary responsibility was to oversee and manage implementation of the RAWP, including: assist with the remedial activities in the field, scheduling, reporting, attending Site meetings, correspondence with the Site owner and regulatory agencies, and preparing the SMP and this FER.
    - The primary Site Safety Officers (SSOs) and field technicians for the project were Victor Chang, Marco Balletta, and Tom Giordano. Mr. Chang, Mr. Balletta, and Mr. Giordano were responsible for implementing the RAWP, HASP, and CAMP in the field and daily reporting.
- RC Structures Inc. (RCS) of Roslyn, New York was the construction manager and general contractor for all remediation activities, including foundation construction, and excavation and off-site disposal of soil/fill material. RCS provided site-wide health and safety oversight for the duration of the development project.

- CANY Architecture & Engineering, DPC and CANY Technical Services, LLC served as the waterproofing inspector.
- AARCO Environmental Services Corp. (AARCO) of Lindenhurst, New York was the New York City Fire Department (FDNY)-certified tank removal contractor that conducted on-site pumping, cleaning, and removal of the UST encountered during remedial activities. AARCO also served as the drilling subcontractor for the SVE wells.
- Marine Bulkheading, Inc. (MBI) of Seaford, New York installed all piles and foundation support for new buildings.
- AmeriGEO of Mountainside, New Jersey provided the support of excavation (SOE) design.
- Earth Construction Services of Germantown, New York provided dewatering plans and implementation services.
- Derosier Engineering, PLLC of Warren, New Jersey served as the site connection plan manager.
- GeoLand Surveying, P.C. of New Hyde Park, New York served as the NYS-licensed surveyor.
- Severud Associates of New York, New York served as the structural engineer.
- Special Testing & Consulting of Farmingdale, New York served as the special testing and inspector.
- Goldstein, Hill & West Architects, LLC of New York, New York served as the architectural design consultant.
- WSP Flack & Kurtz of New York, New York served as the mechanical engineering consultant.
- Mr. Barry Cohen Esq., of Certilman Balin Adler & Hyman, LLP served as the environmental attorney.
- Environmental Waste Minimization Inc. of Northampton, Pennsylvania served as the soil broker and disposal approval manager.
- TestAmerica Laboratories, Inc. of Edison, New Jersey served as the environmental analytical laboratory.
- Medley Air Inc. of Bohemia, New York served as the HVAC consultant and installed the aboveground components of the SSDS and SVES.
- TT Mechanical Corporation of Maspeth, New York served as the plumber.
- Yaker Engineering, P.C. of Brooklyn, New York served as the construction fence and demolition engineer.
- World Class Demo of Maspeth, New York served as the demolition contractor.

3.2.2 Agency Approvals

The Volunteer complied with all federal, state, and local requirements during the remedial work at the Site. All permits and government approvals required for remedial construction were obtained prior to the start of remedial construction.

A complete list of all local, regional, and national governmental permits, certificates, or other approvals or authorizations required to complete the remedial and development work is summarized in In-Text Table 2.

In-Text Table 2
Agency Approvals

Agency	Permit	Agency Phone Number
NYCDOB	Work Permit	(718) 960-4700
	New Building Permit	
	Asbestos/Demolition Permit	
	Electrical Work Permit	
	After Hours Work Variance	
	Certificate of Occupancy	
NYCDEP	Hydrant Connections	(718) 595-3855
	Particulate Mitigation Plan	
	Construction Noise Mitigation Plan	
	Dewatering Permit	
NYCDOT	DOT Signoff	(212) 748-6680
	Temporary Construction Signs Permit	
	Temporary Pedestrian Walk Permit	
	Occupancy of Sidewalk Permit	
	Equipment in Roadway Permit	
	Temporary Security Structure	
	Occupancy of Roadway Permit	
FDNY	FDNY Signoff	(718) 999-2000

Notes:
NYCDOB – New York City Department of Buildings
NYSDEP – New York City Department of Environmental Protection
NYCDOT- New York City Department of Transportation
FDNY – Fire Department of New York

3.2.3 Site Preparation

A pre-construction call was held between members of AKRF, New 470 LLC (the Volunteer), the general and foundation contractors, NYCOER, and NYSDEC on June 18, 2018. The purpose of the call was to review the requirements of the RAWP prior to commencement of subsurface work. Site preparation activities involving major mobilization events for the completion of the remedial work included the following:

- Mobilization – Site mobilization occurred in May and June 2018, and included Site trailer installation, Site security setup, equipment mobilization, utility mark outs, and marking and staking excavation areas prior to beginning Site remediation activities.
- Erosion and Sediment Controls – Prior to the start of the RA, perimeter erosion and sediment controls and drainage inlet protection were installed, including a stabilized construction pad at the Site's entrance/exit location and appropriate Site grading to direct any surface water towards the central portion of the Site. Throughout the

duration of the RA, erosion and sediment controls were repaired or replaced on an as-needed basis. Erosion and sediment control measures are further discussed in Section 3.2.4.

- Site Fencing – Prior to the start of the RA, the Site was secured with a plywood construction fence installed around the eastern, southern, western, and western portion of the northern perimeters of the Site. The eastern portion of the northern Site boundary was not secured by a perimeter fence where the Site boundary was abutted to the north by a building used as the construction office for the Site. The building that housed the construction office is owned by the Applicant and was only accessible from the Site.

Documentation of agency approvals required by the RAWP are included in Appendix D.

No natural resource permits were required as part of the RA.

3.2.4 General Site Controls

The following Site controls were implemented during the completion of remedial work:

- Site Security – The Site was completely enclosed from public access during remedial activities by a plywood construction fence and a building owned by the Applicant. The Site was only accessible by locking gates on Manhattan Avenue and Newton Street. During some work activities, the entrance gates were ajar and/or unlocked, but entry into the Site was restricted to authorized personnel. A security guard was stationed at the Site entrance in a dedicated booth at all times during implementation of the RA.
- Job Site Record Keeping – Job site record keeping was appropriately documented during the completion of all phases of the remedial work by taking notes in dedicated field books, filling out appropriate sampling log sheets, taking digital photographs, and collecting available copies of disposal or material specification documentation from contractors completing the remedial work.
- Erosion and Sediment Controls – Erosion and sediment controls included a stabilized construction pad at truck entrances/exits, equipment decontamination, drainage inlet protection, and dust suppression using hoses connected to a fire hydrant. Routine inspections, repairs, and maintenance of control measures were completed in a timely fashion to maintain the controls in proper working order. All vehicles leaving the Site were inspected to ensure that no soil adhered to the wheels or undercarriage of the vehicles leaving the Site. No situations occurred involving material spilled in transit and all mud and dust tracked off-site was promptly cleaned up. The access routes were inspected for road conditions, overhead clearance, and weight restrictions. No erosion or sedimentation problems occurred during performance of the remedial work.
- Equipment and Material Staging – Staging and storage of equipment and materials were contained within the secured Site trailer or on-site locking storage sheds during completion of the remedial work. Site machinery was shut down and locked on-site at the end of each work day.
- Soil Screening Results – During the remedial excavation, elevated PID readings, odors, and staining were detected in soil/fill encountered on the southern portion of the Site along Newton Street in Grid C2 between approximately 6 and 12 feet below sidewalk grade. On January 23, 2019, in coordination with the soil broker, a waste classification sample was collected from the material exhibiting evidence of contamination. Based on the analytical results, the material was approved for disposal at the Bayshore Soil

Management, LLC facility in Keasbey, New Jersey. No other evidence of contamination was identified during RA implementation at the Site.

- Equipment Decontamination Procedures – All sampling equipment was either dedicated or decontaminated between sampling locations. The equipment decontamination procedure established in the QAPP, included in Appendix K of the November 2016 NYSDEC-approved RAWP, was implemented during use of any non-dedicated sampling equipment.
- Stockpile Methods – Excavated materials were screened continuously for contamination during all earth work. Material was separated by waste streams (i.e., disposal facility) and construction wastes. Excavated materials were segregated (based on field screening results) and placed on, and covered with, polyethylene sheeting pending off-site disposal at the appropriate receiving facility. To the extent feasible, material was live-loaded to avoid double handling on-site prior to disposal.

3.2.5 Nuisance Controls

- Stockpile Methods – Excavated materials were screened continuously for contamination during all earth work. Material was separated by waste streams (i.e., disposal facility) and construction wastes. Excavated materials were segregated (based on field screening results) and placed on, and covered with, polyethylene sheeting pending off-site disposal at the appropriate receiving facility. Staged soil/fill was inspected daily and any damaged tarps were replaced the same day. Soil/fill was staged as far from the Site boundaries as possible and the Site was graded to ensure erosion of any staged soil/fill piles did not leave the Site.
- Truck Wash and Egress Housekeeping – Egress points for truck and equipment transport from the Site were kept clean of dirt and other materials during remedial work using hoses connected the fire hydrants on Manhattan Avenue and Newton Street via a reduced pressure zone (RPZ) valve. Material transported by trucks exiting the Site was secured with tight-fitting covers. Trucks were washed prior to leaving the Site when deemed necessary by AKRF personnel. The truck tracking pad stone was constructed on geotextile fabric overlain by imported stone, which was replaced and/or repaired throughout RA implementation, as deemed necessary by on-site personnel.
- Airborne Particulate Control – Airborne particulate concentrations were monitored using hand-held particulate monitoring equipment on a periodic basis (minimum once per hour), and continuously during all work at upwind and downwind fixed monitoring stations. The fixed stations were capable of using radio telemetry to send real time alarms to field personnel if the CAMP air monitoring action levels were exceeded. Airborne particulate suppression necessitated by soil removal, demolition work, cutting concrete, and chopping bedrock was achieved through the use of hoses capable of spraying water directly onto excavations and temporary staging areas.
- Odor Control – Odors were monitored within the work zone and community via olfactory inspection and with a PID. Slight solvent- and petroleum-like odors were encountered in soil/fill encountered between approximately 6 and 12 feet below sidewalk grade at the southern portion of the Site along Newton Street in Grid C2. Odors were controlled by staging excavated material on top of and under polyethylene sheeting and live-loading the material. Based on work zone and community air monitoring results, additional odor control techniques were not deemed necessary

during contaminated material excavation or loading, or during the remainder of RA implementation.

- Truck Routing – Truck routes established in the RAWP were followed for all trucking to and from the Site. The truck routes are shown on Figure 4.
- Complaints Response – Complaints were received throughout the duration of the RA. Complaints, responses, and any action items are detailed below:
  - NYCDOB Complaint No. 3527613: On August 24, 2015, a complaint was received indicating that the scaffolding on the sidewalk adjacent to the Site was not structurally stable. The NYCDOB inspected the Site on September 3, 2015 and requested repairs be made. On September 9, 2015, NYCDOB re-inspected the scaffolding, and the complaint was resolved.
  - NYCDOB Complaint No. 3654865: On June 22, 2018, a complaint was received indicating that excavation was ongoing and that no sheeting had been installed to support the excavation. The same day, NYCDOB inspected the Site and did not observe excavation activities. The complaint was resolved.
  - On July 9, 2018, a complaint was received indicating that off-site excavation was ongoing. In response, AKRF submitted photographs to NYSDEC showing that no work was occurring off-site. No further action was required by NYSDEC.
  - NYCDOB Complaint No. 3664378: On August 24, 2018, a complaint was received from a neighbor indicating that work at the Site was affecting the structural integrity of the north-adjacent building. The NYCDOB inspected the Site the same day and served a full Stop Work Order (SWO) for failing to provide approved documents/permits and out of compliance with regard to the Site Safety Plan. The NYCDOB inspected the Site again on September 4, 2018, and the SWO was lifted.
  - NYCDOB Complaint No. 3664658: On August 27, 2018, a complaint was received indicating that work was being conducted on-site during a Stop Work Order. NYCDOB inspected the Site on August 28, 2018, and no work was occurring; therefore, the complaint was resolved.
  - NYCDOB Complaint No. 3664671: On August 27, 2018, a complaint was received indicating that excavation and pile driving work resumed during a SWO. NYCDOB inspected the Site on August 30, 2018, and no work was occurring; therefore, the complaint was resolved.
  - NYCDOB Complaint No. 3665765: On September 4, 2018, a complaint was received indicating that work was being conducted on-site during the SWO. On September 4, 2018, NYCDOB indicated that no violation was warranted, since the Stop Work Order was lifted on the morning of September 4, 2018; therefore, the complaint was resolved.
  - NYCDOB Complaint No. 3665771: On September 4, 2018, a complaint was received indicating that work was being conducted on-site during the SWO. On September 4, 2018, NYCDOB indicated that no violation was warranted since the SWO was lifted on the morning of September 4, 2018; therefore, the complaint was resolved.

- NYCDOB Complaint No. 3665867: On September 5, 2018, a complaint was received indicating that foundation pile installation caused buildings across the street from the Site to shake. On September 6, 2018, NYCDOB inspected the Site and observed that no vibration monitoring exceedances were recorded; therefore, the complaint was resolved.
- NYCDOB Complaint No. 3666121: On September 6, 2018, a complaint indicated that construction activities caused buildings across the street from the Site to shake. On September 10, 2018, NYCDOB inspected the Site and did not identify any activities being conducted that were not in compliance with development plans and vibration thresholds.
- NYCDOB Complaint No. 3668133: On September 20, 2018, a complaint was received indicating that construction activities caused the building adjacent to the Site to shake. NYCDOB inspected the Site on September 25, 2018 and did not identify any activities being conducted that were not in compliance with development plans and vibration thresholds. Therefore, the complaint was resolved.
- On September 20, 2018, a complaint was received indicating that the ongoing construction was toxic in nature, the walls of the adjacent structures were shaking, and that the Site was contaminated and was not being remediated. NYCDOB inspected the Site the same day and concluded that no violation was warranted, as the claims could not be corroborated and on-site vibration and environmental monitoring was ongoing. Therefore, the complaint was resolved.
- NYCDOB Complaint No. 3668324: On September 21, 2018, a complaint was received indicating that construction activities caused the building adjacent to the Site to shake. On September 25, 2018, NYCDOB inspected the Site and concluded that no violation was warranted, as the claims could not be corroborated. Therefore, the complaint was resolved.
- NYCDOB Complaint No. 3674093: On November 3, 2018, a complaint was received that construction activities were being conducted on-site without a weekend permit. NYCDOB concluded the complaint was unsubstantiated due to an after-hours variance issued on the date of the complaint under the new building permit No. 320909772. The complaint was resolved.
- NYCDOB Complaint No. 3681477: On January 3, 2019, a complaint was received indicating that the Site failed to safeguard all persons and properties. The same day, NYCDOB inspected the Site and a SWO was placed on the Site for "failure to provide protection at side of excavation more than 8 feet deep for elevator pit", "missing guardrails throughout Site", "earth ramp without timber curbs", and "missing statement of responsibility for foundation and footings poured". Immediately after receiving the SWO, excavation protection, guardrails, and rebar caps were installed. The NYCDOB re-inspected the Site the same day and partially rescinded the SWO. On January 11, 2019, NYCDOB re-inspected the Site and the SWO was lifted. The complaint was resolved.
- NYCDOB Complaint No. 3683888: On January 23, 2019, a complaint was received indicating that construction work was being conducted at the Site after hours. On January 24, 2019, NYCDOB inspected the Site and concluded that no

violation was warranted at the time of inspection; therefore, the complaint was resolved.

- NYCDOB Complaint No. 3686853: On February 16, 2019, a complaint indicated that construction work was being conducted at the Site after hours. NYCDOB concluded that no violation was warranted, as work was being conducted in accordance with an after-hours work variance; therefore, the complaint was resolved.

3.2.6 Community Air Monitoring Program (CAMP) Results

Community air monitoring was performed for VOCs and airborne particulate matter at upwind and downwind fixed monitoring stations at the perimeter of the Site during all remedial activities. Station locations were adjusted daily depending upon wind conditions, planned work locations, and logistical feasibility based on Site work. CAMP station location, wind direction, and work area location(s) were provided in each daily report submitted to NYSDEC and NYSDOH. Daily reports are provided in Appendix E and CAMP data is provided in Appendix F.

Instantaneous action level exceedances of airborne particulates and VOCs were reported in the daily report corresponding to the date of the exceedance(s) and were summarized in the Monthly Progress Reports (MPRs), which are included in Appendix E. No 15-minute exceedances of particulates or VOCs were detected.

As detailed in the MPRs (Appendix E), the majority of the instantaneous airborne particulate exceedances were caused by equipment malfunction or recalibration, ambient humidity, idling vehicles, equipment or machinery refueling, moving construction materials around the Site, welding, and woodworking. The only exceptions were the exceedances on February 4 and 25, 2019, which were caused by airborne particulates during sweeping and blowing air onto foundation elements to prepare for vapor barrier installation. However, no action was taken, as the exceedances were instantaneous and concentrations immediately fell below action limits. The only instantaneous VOC exceedances were caused by exhaust and fumes from idling or refueling vehicles and machinery near the CAMP stations, spray paint, and equipment recalibration and malfunction, elevated humidity in ambient air, and welding and cutting rebar nearby the station. In cases where the PID registered elevated readings with no known or observed cause, roving equipment was utilized around the CAMP stations to confirm that the readings were not representative, and VOC levels were found to be below the action levels.

Copies of all field data sheets relating to the CAMP are provided in electronic format in Appendix F.

3.2.7 Reporting

- Daily Reports – Daily reports were submitted to the NYSDEC project manager throughout the duration of the RA in accordance with the RAWP. The daily reports included an update of progress made during the reporting day, locations of work and quantities of material imported and exported from the Site, references to alphanumeric map for Site activities, a summary of CAMP finding, including exceedances, an explanation of notable Site conditions, photographs, and fixed monitoring station data.
- Monthly Progress Reports (MPRs) – MPRs were submitted to the NYSDEC project manager throughout the duration of the RA. Each MPR included a description of activities relative to the Site during the previous reporting period and those anticipated

for the next reporting period, including a quantitative presentation of work performed (i.e., tons of material exported, etc.), a description of approved activity modifications, including changes of work scope and/or schedule, sampling results received following internal data review and validation, as applicable, and an update of the remedial schedule including the percentage of project completion, unresolved delays encountered or anticipated that may affect the future schedule, and efforts made to mitigate such delays.

All daily reports and MPRs are included in electronic format in Appendix E. The digital photographic log documenting the RA is included in electronic format in Appendix G.

3.3 Contaminated Materials Removal

The objectives for the remedial program were established through the remedy selection process stated in 6 NYCRR Part 375. The contaminated materials removal portion of the remedial program set out to restore the Site to pre-disposal conditions to the extent practicable. At a minimum, the remedy was established to eliminate or mitigate all significant threats to public health and the environment presented by the contamination identified at the Site through the proper application of scientific and engineering principles. Pre-remedial sample concentrations above NYSDEC UUSCOs and/or RRSCOs, and AWQSGVs are shown on Figures 5 and 6, respectively. Pre-remedial soil vapor sample concentrations are shown on Figure 7.

The contaminated materials removal portion of the remedial program was established based on a Restricted Residential Track 4 cleanup, as established in the RAWP and DD. The Track 4 cleanup included the excavation and off-site disposal of on-site soil that exceeded RRSCOs, and a hotspot of material containing concentrations of lead exceeding the hazardous waste threshold on the southern portion of the Site. As part of remedial development activities, soil/fill was excavated to approximately 12 feet below surface grade at the location of the proposed partial cellar on the southwestern portion of the Site and to approximately 4 feet below surface grade at the location of the slab-on-grade portion of the Site.

The UUSCOs and RRSCOs for the contaminants of concern for the Site are included in Attached Tables 1 and 2, respectively. A total of 241.47 tons of hazardous lead soil and 10,717.55 tons of non-hazardous soil were removed from the Site and transported for off-site disposal at the appropriate soil disposal receiving facilities. All contaminated soil was removed in accordance with the RAWP and DD. In-Text Table 3 summarizes the total quantities of each category of material removed from the Site and the disposal locations. An outgoing truck tracking log is provided as Attached Table 3. A figure of the location of original sources and areas where excavations were performed is provided as Figure 8. UST endpoint sample concentrations are shown on Figure 9. Post-excavation endpoint sample concentrations above UUSCOs and/or RRSCOs are shown on Figure 10.

3.3.1 Underground Storage Tank (UST) Closure and Removal

On October 5, 2016, prior to conducting soil waste classification sampling, a geophysical survey was conducted across the Site by Delta Geophysics, Inc. (Delta) of Catasauqua, Pennsylvania to clear the proposed test pit locations for subsurface utilities and to locate other potential buried structures. The geophysical survey included both electromagnetic (EM) and ground penetrating radar (GPR) methods. All utility locations were marked out with spray paint. An anomaly consistent with that of a UST, measuring approximately 7 feet by 5 feet, was detected on the southeastern portion of the Site. Historic Sanborn maps identified a gasoline UST on the southeastern portion of the Site between 1942 and 2007. The tank was previously unknown and unregistered.

One 550-gallon gasoline UST was encountered during remedial excavation on June 22, 2018. The UST was encountered on the south-central portion of the Site approximately 5 feet below sidewalk grade. As part of the BCP remediation work, NYSDEC was immediately notified upon tank discovery and throughout the tank removal and associated sampling activities as they occurred. AARCO pumped 603 gallons of petroleum-contaminated water from the tank(including tank cleaning fluids described below) into a vacuum truck for off-site disposal at Essential Environmental Technologies, Inc. in Farmingdale, New York. The interior and exterior of the tank were subsequently cleaned, and the tank was placed on and covered with plastic sheeting until it was transported off-site for recycling on June 28, 2018. Immediately following removal of the tank from the ground, the grave was inspected for evidence of contamination (e.g., staining, odors, and/or elevated PID readings). No evidence of contamination was observed. Four sidewall samples (UST-1 N 20180628, UST-1 E 20180628, UST-1 S 20180628, and UST-1 W 20180628) and one bottom sample (UST-1 B 20180628) were collected for laboratory analysis. After receipt of approval by the NYSDEC project manager to reduce the analytical methods to CP-51 VOCs and SVOCs only in a June 27, 2018 email, the samples were submitted to TestAmerica of Edison, New Jersey, a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory with Category B Deliverables.

In November 2019, after remedial excavation concluded and no additional tanks were discovered, the Volunteer submitted a PBS Application to NYSDEC to register and close the UST. The former location of the UST is shown on Figures 2, 8, and 9. The PBS registration documentation is included in Appendix H.

Six SVOCs were detected at concentrations above their respective RRSCO and UUSCO in one or more of the tank endpoint samples, including: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k) fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene. The SVOCs detected in the sidewalls and bottom tank endpoint samples may be related to residual petroleum contamination and/or fill material, both of which were observed within the tank grave. Regardless, the soil/fill surrounding the tank was excavated to depths up to approximately 12 feet below sidewalk grade to facilitate partial cellar foundation and stormwater detention tank installation. The excavated material was disposed of off-site at the facility approved to accept the material from Grid C2. Figure 9 presents tank endpoint sample concentrations above NYSDEC UUSCOs and/or RRSCOs. The tank endpoint sample location and elevation survey is provided in Appendix I. Tank endpoint analytical results are presented in Attached Tables 4 and 5.

3.3.2 Waste Classification Sampling

AKRF conducted soil waste classification sampling on October 5, 2016, the procedures and analytical results of which were documented in the October 31, 2016 Soil Waste Classification Sampling Report. On May 24, 2018, prior to off-site disposal, AKRF drafted a letter on behalf of the Volunteer at the request of the proposed soil disposal facilities considering accepting Site soil/fill. The purpose of the letter was to document that no work had occurred at the Site since the October 2016 waste classification sampling was conducted, therefore, the waste classification report was representative of Site conditions at the time of the letter issuance.

To provide supplemental data for the intended disposal facility(ies), lead delineation sampling was conducted on December 13, 2016 and March 26, 2018, as documented in the May 1, 2018 Lead Delineation Report.

The Waste Classification Reports, which included summaries of the samples collected, the sample locations, and analytical results, are provided in Appendix J. Approval letters from disposal facilities, and manifests and bills of lading are also included in Appendix J.

3.3.3 Hazardous Soil Delineation Sampling

AKRF collected additional samples at and around test pit TP-B2 in the 0 to 9-foot interval to delineate the vertical and horizontal extent of hazardous lead.

One grab sample was collected at approximately 12 feet below grade from the center of test pit TP-B2. Five-point composite samples were collected from the 0 to 5-foot interval and the 5 to 9-foot interval in four directions (north, south, east, and west) from the center of the test pit for a total of eight composite samples. Additional samples were collected approximately 10 feet from the center of test pit TP-B2 and placed on hold, pending the laboratory analysis of the prior samples. The soil samples were analyzed for toxic characteristic leaching procedure (TCLP) lead and total lead.

Samples slated for laboratory analysis were placed in laboratory-supplied containers in accordance with EPA protocols and the New Jersey Department of Environmental Protection (NJDEP) Field Sampling procedures manual to satisfy requirements for disposal of Site soil in New Jersey. All soil samples collected were submitted to a NYSDOH ELAP-certified laboratory for analysis of TCLP lead and total lead.

TCLP lead was not detected above the EPA hazardous waste threshold in any of the samples analyzed from the September 21, 2018 sampling event. Therefore, the extent of hazardous lead soil was defined from grade to 10 feet below grade in an approximately 10-foot by 10-foot area near the center of Grid B2.

The laboratory analytical results for this additional pre-characterization sampling were summarized in the waste classification reports provided in Appendix J.

3.3.4 Soil/Fill Excavation and Off-Site Disposal Details

Based on the results of the waste characterization soil sampling events, permitted disposal facilities were selected to receive soil excavated from the Site. To procure approval for the disposal of hazardous lead waste, an EPA Generator Identification Profile was submitted to and subsequently approved by representatives from EPA Region 2 offices. On February 27, 2019, the Site was assigned EPA Generator ID NYR000230789. Waste profiles were prepared and submitted to Clean Earth of Kearny, New Jersey.

All waste profiles and approval letters from the facilities used to dispose of soil from the Site are enclosed in Appendix J. The EPA Region 2 correspondence and EPA Generator ID confirmation is included in Appendix D.

After securing the formal approvals from the selected waste disposal facilities, remedial excavation was conducted in accordance with the NYSDEC-approved RAWP. A Site plan showing the remedial excavation areas is provided as Figure 8.

Between July 23, 2018 and February 6, 2019, 10,717.55 tons of non-hazardous soil were excavated to a maximum depth of approximately 12 feet below sidewalk grade. Of that total, 8,979.4 tons of non-hazardous material were disposed of at Bayshore Soil Management, LLC in Keasbey, New Jersey via 256 truckloads and 1,738.15 tons of non-hazardous material were disposed of at the Former NJ Zinc facility in Palmerton, Pennsylvania via 73 truckloads.

On August 6, 2018, November 7, 2018, and November 27, 2018, soil/fill containing hazardous characteristics of lead from surface grade to approximately 12 feet below surface grade was excavated and live-loaded from the central portion of waste classification grid B2. In total, 241.47 tons of hazardous lead material were disposed of off-site at Clean Earth of Kearny, New Jersey via 10 truckloads.

A summary of the samples collected to characterize the waste, and associated analytical results are summarized in the Waste Classification Reports and associated disposal facility approvals included in Appendix J. Manifests and bills of lading are also included in electronic format in Appendix J. In-Text Table 3 shows the total quantity of material removed from the Site at each disposal facility.

In-Text Table 3
Waste Disposal Summary

Waste Stream	Disposal Facility(ies)	Quantity (tons)	Disposal Dates
Non-Hazardous Soil/Fill	Bayshore Recycling Corp. Keasbey, New Jersey	8,979.40	7/23/2018-2/6/2019
PA Regulated Soil/Fill	NJ Zinc Brownfield, LLC Phase II Environmental, LLC Palmerton, Pennsylvania	1,738.15	8/7/2018-8/13/2018
Hazardous Lead Soil/Fill	Clean Earth of New Jersey	241.47	8/6/2018-11/27/2018
	Total	10,959.02	
Note: Disposal dates indicate date the material left the Site.			

3.3.5 On-Site Reuse

Material was not reused on-site.

3.4 Endpoint Sampling

In accordance with the NYSDEC-approved RAWP and NYSDEC DER-10 Section 5.4, 24 Site-wide endpoint samples were collected to document remaining concentrations of contaminants of concern in soil/fill beneath the composite cover system following completion of the RA. Sample nomenclature identified the samples with an "EP-" prefix, a number (01 through 24) in the order of collection, and the date in YYYMMDD format on which the samples were collected.

In addition to the documentation samples, five tank endpoint samples consisting of four sidewall samples and one bottom sample were collected from the tank grave after removal of the 550-gallon UST, as shown on Figure 9. Samples collected from tank excavation were indicated with "UST-", the cardinal direction of the sidewall the sample was collected (N, S, E, and W for north, south, east, and west, respectively) or B for the sample collected from the bottom of the tank grave, and the date on which they were collected in the sample name (i.e., UST-1 W 20180628). While each of the tank excavation endpoint samples exceeded the UUSCOs and/or RRSCOs, soil/fill surrounding the tank was further excavated as part of the Site-wide remedy and disposed of off-site at the designated facility.

Surveys of the endpoint sample locations and elevations by GeoLand Surveying, P.C., a New York State-licensed surveyor, is included in Appendix I.

At each of the endpoint sample locations (Site-wide and tank), AKRF field-screened all endpoint sample locations with a calibrated PID for VOCs, prior to sample collection. No elevated PID readings above background ranges were observed at any endpoint sampling location.

Confirmation and tank removal endpoint samples were collected in laboratory-supplied glassware and relinquished under standard chain-of-custody protocol to TestAmerica, a NYSDOH-ELAP certified laboratory with Category B deliverables. Confirmation and tank endpoint samples were submitted for laboratory analysis of VOCs by EPA Method 8260, PAHs by EPA Method 8270, Pesticides by EPA Method 8081, PCBs by EPA Method 8082, and TAL metals by EPA Method 6000/7000 series using Category B deliverables. In accordance with the Quality Assurance Project Plan (QAPP), one trip blank, one field blank, one blind duplicate sample, and one matrix spike/matrix spike duplicate (MS/MSD) were collected per every 20 samples or sample digestion group (SDG) and submitted for analysis during the endpoint sampling events. The field blank(s), blind duplicate(s), and MS/MSD(s) included all of the parameters included in the sample analysis while the trip blank was limited to VOCs. Post-excavation endpoint sample results are summarized in Attached Tables 6 through 9, and all exceedances of the UUSCOs and/or RRSCOs are shown on Figure 10. Tank removal endpoint sample results are summarized in Table 4 and 5, and exceedances of the UUSCOs and/or RRSCOs are shown on Figure 9. In-Text Table 4 summarizes endpoint sample elevations and locations.

In-Text Table 4
Endpoint Sample Elevation and Locations

Sample Identification	Sample Elevation	Sample Location
UST-1 B 20180628	11.49	N40.72049152, W73.94722606
UST-1 E 20180628	12.48	N40.72049582 W73.94721938
UST-1 N 20180628	12.42	N40.72050284 W7394723506
UST-1 S 20180628	12.12	N40.7204853 W73.94721847
UST-1 W 20180628	12.86	N40.72048541 W73.94723979
UST-1 X 20180628		
EP-01_20190225	2.72	N40.72034603 W73.94758909
EP-02_20190225	2.19	N40.72032473 W73.94748926
EP-X01_20190225		
EP-03_20190225	2.53	N40.72040019 W73.94746285

In-Text Table 4
Endpoint Sample Elevation and Locations

Sample Identification	Sample Elevation	Sample Location
EP-04_20190225	2.71	N40.72040491 W73.94735101
EP-05_20190225	2.59	N40.7204668 W73.94740056
EP-06_20190225	2.66	N40.72044472 W73.94729767
EP-07_20190225	2.35	N40.72054119 W73.94734529
EP-08_20190403	12.56	N40.72078879 W73.94727761
EP-X02_20190403		
EP-09_20190403	12.87	N40.72076038 W73.94728769
EP-10_20190403	11.91	N40.72068311 W73.94717607
EP-11_20190403	13.05	N40.72069625 W73.94729381
EP-12_20190403	13.37	N40.72044477 W73.94764146
EP-13_20190403	12.35	N40.72052522 W73.94766824
EP-14_20190403	12.82	N40.72057459 W73.94766824
EP-15_20190403	12.46	N40.7204568 W73.94753365
EP-16_20190403	13.36	N40.7204956 W73.94757693
EP-17_20190403	12.37	N40.72059134 W73.94753662
EP-18_20190403	14.2	N40.72055572

In-Text Table 4
Endpoint Sample Elevation and Locations

Sample Identification	Sample Elevation	Sample Location
		W73.94744606
EP-19_20190403	13.94	N40.72061894 W73.94745242
EP-20_20190403	13.51	N40.72071476 W73.94742531
EP-21_20190429	11.98	N40.72060685 W73.94725585
EP-X03_20190429		
EP-22_20190429	12.7	N40.72059191 W73.94714793
EP-23_20190701	16.45	N40.72065588 W73.94769317
EP-24_20190701	15.93	N40.72067705 W73.94751583
EP-X04_20190701		

Notes:

Elevations are referred to in NAVD88.

Locations are referred to in NAD83.

UST-1 X 20180628 is a blind duplicate sample of UST-1 W 20180628.

EP-X01_20190225 is a blind duplicate sample of EP-02_20190225.

EP-X02_20190403 is a blind duplicate sample of EP-08_20190403.

EP-X03_20190429 is a blind duplicate sample of EP-21_20190429.

EP-X04_20190701 is a blind duplicate sample of EP-24_20190701.

A qualified data validator (third-party) reviewed all Site-wide post-excavation and tank endpoint sample laboratory reports and prepared Data Usability Summary Reports (DUSRs). The third-party data validator's overall assessment indicated the data generated were of acceptable quality. The DUSR identified additional qualifiers for specific compounds for specific samples. The qualifiers have been added to the data summary tables and were included in the EDDs submitted to NYSDEC EQuIS™. Full laboratory analytical results and DUSRs are provided as Appendix I.

DUSRs were prepared for all data generated in this remedial performance evaluation program. The lab packages and DUSRs are included in Appendix I, and associated raw data was uploaded to the NYSDEC EQuIS™ electronically.

3.5 Imported Backfill

A total of 403.84 cubic yards of virgin quarried stone were imported for use as part of the composite cover system and was placed across the slab-on-grade portion of the Site. The locations of imported stone are shown on Figure 11. Import documentation is summarized in Appendix K and Attached Table 10.

3.6 Remaining Contamination

The selected remedy include a Track 4 cleanup. Therefore, contamination remains in the subsurface at the Site. Site-wide documentation endpoint samples were collected to document the remaining contamination. In addition, after discovery and removal of a UST, five samples were collected from the tank grave. Sample locations are shown on Figures 9 and 10. All endpoint sample results were compared to UUSCOs and RRSCOs, as shown in Attached Tables 4 through 9 and on Figures 9 and 10.

3.7 Engineering Controls (ECs)

Since remaining contaminated soil/fill, groundwater, and soil vapor exist beneath the Site, ECs are required to protect human health and the environment. The Site has the following primary Engineering Controls, as described in the following subsections:

- Composite Cover System
- Vapor Barrier Membrane
- Sub-Slab Depressurization System (SSDS)
- Soil Vapor Extraction System (SVES)

3.7.1 Composite Cover System

A Track 4 remedy was achieved. Therefore, exposure to remaining contamination of soil/fill at the Site is prevented by an engineered composite cover system installed across the entire Site. The composite cover system is composed of the following components:

- *Partial Cellar and Elevator Pit:* 6 inches of concrete underlain by Grace Preprufe® 300R vapor barrier/waterproofing, underlain by compacted subgrade.
- *Exterior Partial Cellar Foundation Walls:* concrete foundation wall adjacent to Grace Preprufe® 300R vapor barrier/waterproofing, adjacent to compacted subgrade.
- *Slab-On-Grade Building:* 6 inches of concrete underlain by Stego Wrap® 20 mil vapor barrier, underlain by 4-inch PVC SSDS and SVES piping in a minimum 6 inches of gas-permeable aggregate (GPA), underlain by non-woven geotextile fabric, underlain by prepared subgrade.
- *Exterior, Open-Air Dog Run:* 6 inches of concrete underlain by GPA, underlain by a demarcation barrier (snow fence), underlain by prepared subgrade.

Figure 11 shows the as-built cross sections and location(s) for each remedial cover type. An Excavation Work Plan (EWP), which outlines the procedures required in the event the cover system and/or underlying residual contamination are disturbed, is provided in Appendix A of the SMP (provided as Appendix L of this FER).

3.7.2 Vapor Barrier and Waterproofing Membranes

Waterproofing and vapor barrier membrane were installed beneath the Site building slabs. A Grace Preprufe® 300R and Bituthene® 4000 vapor barrier membrane that meets or exceeds the ASTM E-1745 standard was installed as a Site EC below the cellar slab and along subgrade cellar sidewalls, sumps, and pits. The Grace Preprufe® 300R and Bituthene® 4000 vapor barrier membranes also act as waterproofing, as the partial cellar construction extends into the water table; therefore, installation of an SSDS below the partial cellar slab was infeasible. Stego Wrap® 120R was installed under the slab-on-grade portion of the building. GCP Hydroduct 220 and Bituthene® 4000 were installed along the exterior vertical building walls to sidewalk grade. The membranes were installed in accordance with the manufacturer's installation specifications at the locations shown on Figure 11.

3.7.3 Sub-Slab Depressurization System (SSDS)

An active SSDS was installed below the slab-on-grade (parking garage) portion of the Site to mitigate the potential for soil vapor intrusion into the new Site building. The target area for the SSDS comprises the slab-on-grade portion of the Site building, which excludes a narrow exterior concrete-paved area along the northwestern portion of the Site and the partial cellar on the southwestern portion of the Site, which extends below the groundwater table. The SSDS maintains a negative pressure by inducing vacuum underneath the entire ground floor slab, allowing vapors to vent above the Site building roof without entering the building. The SSDS consists of a network of subgrade 4-inch, Schedule 40 slotted and solid PVC piping installed within a minimum 6-inch thick layer of GPA, all of which are underlain by non-woven geotextile fabric. The subgrade piping penetrates the slab within the ground floor, centrally-located mechanical room and is subsequently manifolded into a solid, 6-inch Schedule 40 chlorinated PVC (CPVC) solid riser, leading from a blower and vertically through the building to an exhaust stack located on the 8th floor roof.

The major components of the SSDS include:

- Four horizontal 4-inch diameter 0.020-inch slotted and solid PVC pipe runs;
- A minimum 6-inch layer of ¾-inch GPA stone bedding under, around, and above all SSDS piping;
- Three vacuum monitoring points (VMPs) (MP-01 through MP-03);
- A 2 horsepower (HP), 3-phase IPF model (CDD-200 ECO) suction fan capable of operating at 9.5 in.H_2O and 300 standard cubic feet per minute (SCFM) air flow rate; and
- A 6-inch galvanized riser pipe extending from the ground floor parking garage to an exhaust stack on the 8th floor mechanical roof.

The aboveground components of the SSDS have been procured and, after delivery to the Site, will be installed to facilitate system startup, balancing, and sampling in accordance with the SMP. The work will detailed in the inaugural Periodic Review Report (PRR), to be submitted to the Department no more than 18 months after receipt of the Certificate of Completion (COC). The location and components of the SSDS are shown on Figure 12. As-built drawings of the SSDS are provided in Appendix M.

3.7.4 Soil Vapor Extraction System (SVES)

An SVES was installed to remediate the vadose zone beneath the building on the eastern and northeastern portion of the Site and to help prevent the off-site migration of contaminated soil vapor. The target area for the SVES is the vadose zone, which is the unsaturated soil above the groundwater table, is an approximately 7,000-square foot area located on the eastern and northeastern portions of the Site. The SVES, in combination with the vapor barrier and SSDS, will help to prevent potential soil vapor intrusion into the new building. Based on the findings of the June 2016 pilot test, the SVES is capable of operating the four SVE wells at an approximate maximum applied vacuum of 30 inches of water (inH_2O) and approximate air flow rate of 75 SCFM per SVE well. The SVES maintains a negative pressure in a radius around each of the four SVE extraction wells to extract and treat contaminated vapors.

The major components of the SVES include:

- Four 4-inch diameter PVC SVE wells (SVE-01 through SVE-04), each constructed with 0.020-inch slotted well screen from 3.5 feet below grade to between 9 and 9.5 feet below the bottom of the concrete slab-on-grade; and
- Four runs of 4-inch diameter solid PVC piping connecting each individual SVE wells to enter into a mechanical room on the central portion of the Site.
- A 10 HP, 3-phase FPZ model (SCL-K09-MS-10-3) blower capable of operating at 55 inH_2O and 400 SCFM;
- Two (2) 400-pound GAC vessels connected in series to extracted treat vapors; and
- A 6-inch galvanized steel riser pipe extending from the ground floor parking garage to an exhaust stack on the 8th floor roof.

The aboveground components of the SSDS have been procured and, after delivery to the Site, will be installed to facilitate system startup, balancing, and sampling in accordance with the SMP. The work will detailed in the inaugural Periodic Review Report (PRR), to be submitted to the Department no more than 18 months after receipt of the COC. The location and components of the SVES are shown on Figure 12. As-built drawings of the SVES are provided in Appendix M. Procedures for monitoring the SVES are documented in the SMP, provided as Appendix L.

3.8 Institutional Controls (ICs)

The Site remedy requires placement of an EE on the Site to (1) implement, maintain, and monitor the ECs; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and (3) limit the use and development of the Site to restricted residential and commercial uses only.

The EE for the Site was executed by the Department on July 3, 2019, and filed with the Kings County Clerk on September 3, 2019. The Kings County Recording Identifier number for the filing is CFRN 2019000281480. A copy of the EE and proof of filing are provided in Appendix N.

3.9 Deviations from the Remedial Action Work Plan (RAWP)

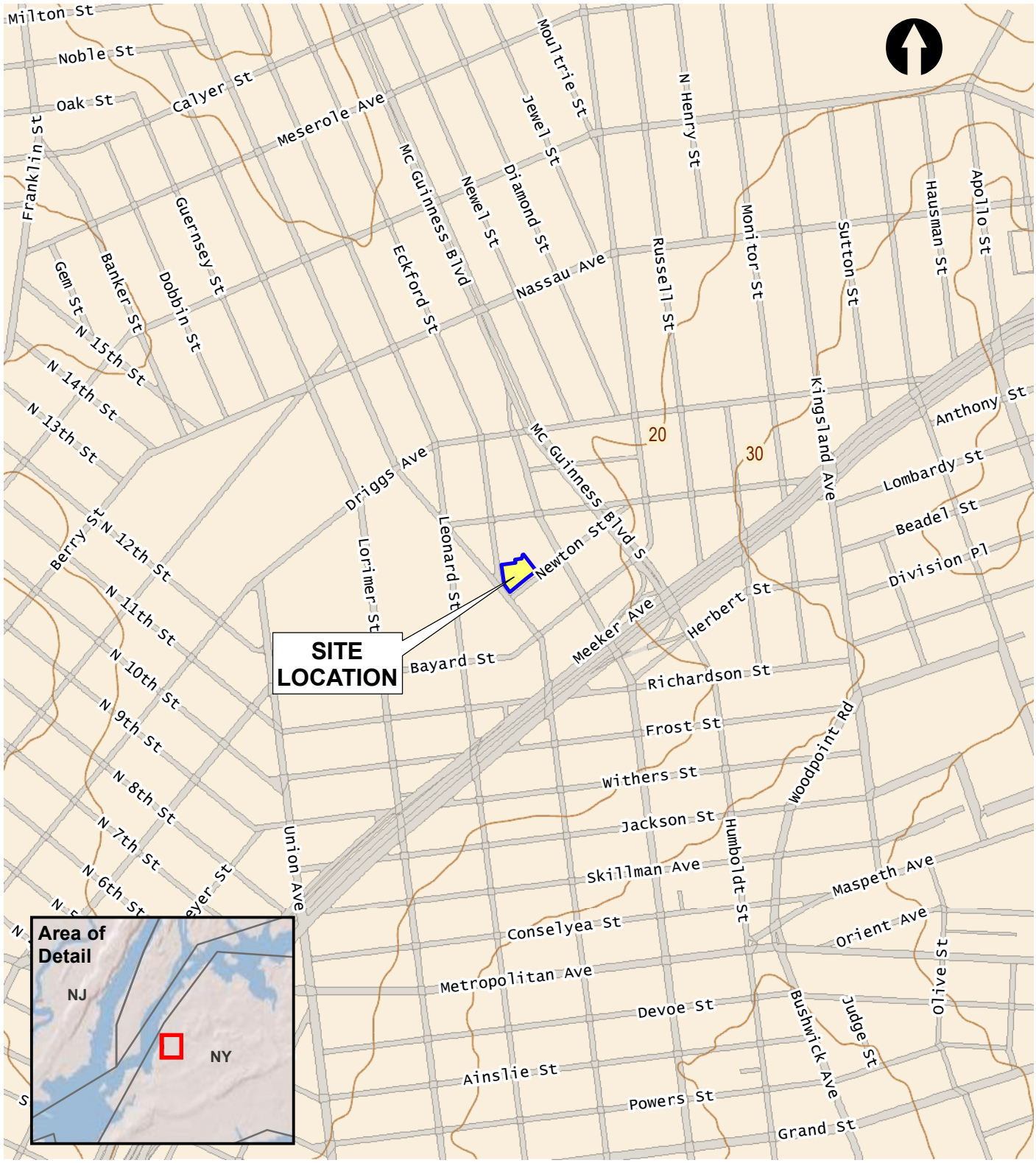
The following components of the RA performed at the Site can be considered deviations from the RAWP:

- Effective August 24, 2018, the NYSDEC project manager was changed from Mr. Larry Alden, P.E. to Mr. Steven Walsh after Mr. Alden's retirement from the Department.

- The SSDS and SVES layout presented in the RAWP was a conceptual layout diagram. After the Site building foundation plans were finalized, AKRF modified the SSDS and SVES designs. During construction, minor modifications were made to the layout of the underground piping to address conflicts with underground foundation elements, utilities, and feasibility of construction. The NYS-licensed P.E. for the project was consulted prior to finalizing the design changes. The P.E.-stamped SSDS and SVES as-built drawings are provided in Appendix M.
- After consultation with the NSYDEC project manager on June 22, 2018, the endpoint samples collected from within the former tank grave were analyzed for CP-51 analysis only.
- The RAWP proposed the installation of GCP Florprufe vapor barrier beneath the ground floor slab. A vapor barrier was originally included in the foundation design to satisfy the NYCOER E Designation for hazardous materials. The vapor barrier design was later modified to include the use of Stego™ Wrap 20-mil. vapor barrier. The vapor barrier and waterproofing membrane installation locations are shown on Figure 11 and the construction details are shown in Appendix M.
- The proposed landscaped area on the northwestern portion of the Site was constructed as a concrete-paved exterior dog run. The composite cover system construction details are shown on Figure 11.
- A BCP sign was not erected at the Site entrance. In a December 8, 2016 email, the former NYSDEC project manager for the Site (Mr. Larry Alden, P.E.) indicated that a sign was not required.
- Soil/fill containing hazardous characteristics for lead encountered in Grid C2 during waste characterization sampling was not originally identified in the RAWP. Immediately upon its discovery, NYSDEC was notified. Hazardous soil/fill derived from the Site was transported and disposed of off-site in full compliance with the RAWP and applicable local, state, and federal regulations.
- Startup of the SSDS and SVES will be documented in the inaugural PRR.

The deviations did not materially affect achieving the RAOs established for the Site.

FIGURES



Service Layer Credits: USGS The National Map: 3d Elevation Program 2018

0 800 1,600

SCALE IN FEET

AKRF

440 Park Avenue South, New York, NY 10016

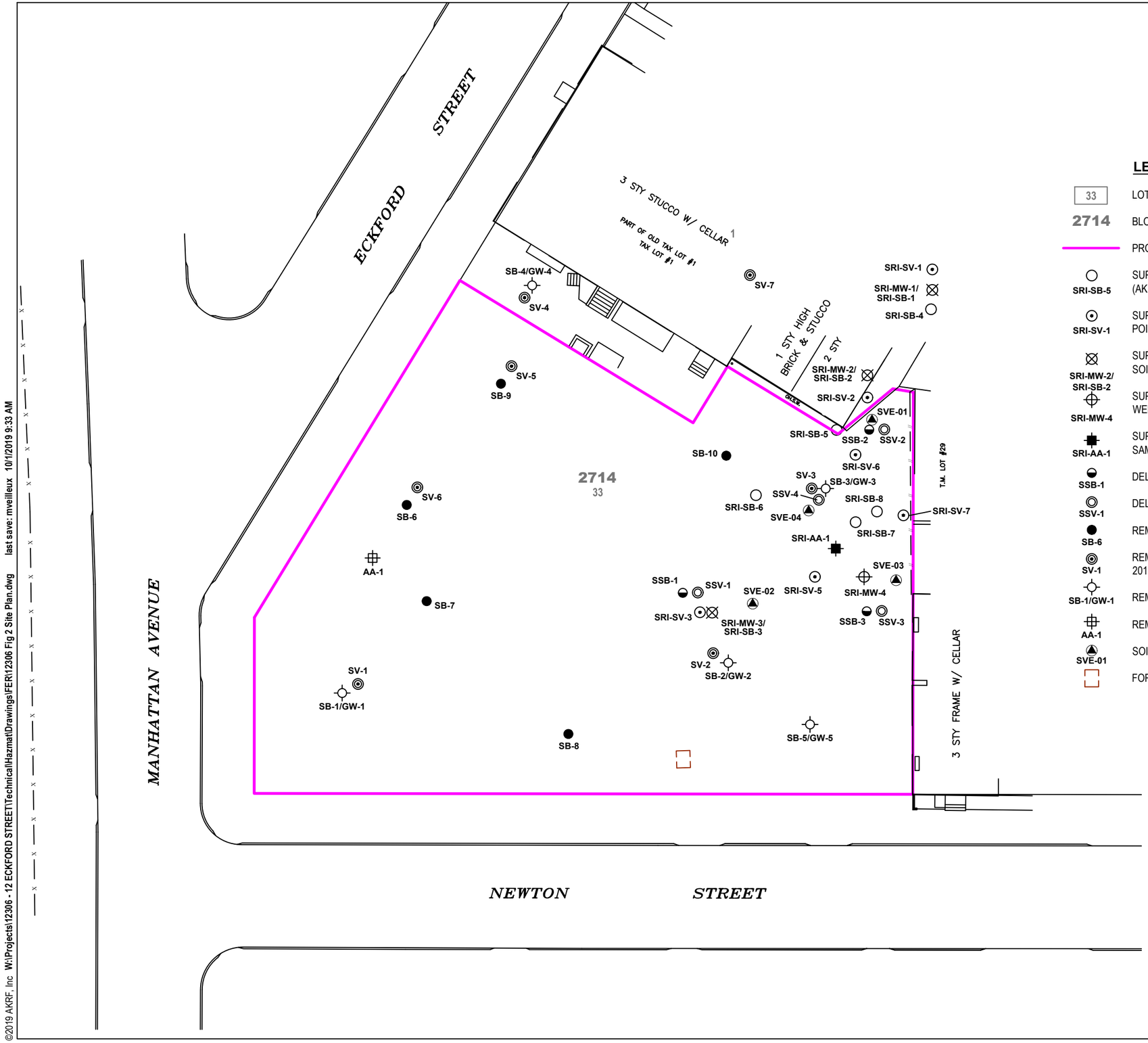
New 470 Project
12 Eckford Street
Brooklyn, New York

SITE LOCATION

DATE
7/10/2019

PROJECT NO.
12306

FIGURE
1



LEGEND

33	LOT BOUNDARY AND NUMBER
2714	BLOCK NUMBER
	PROJECT SITE BOUNDARY
SRI-SB-5	SUPPLEMENTAL REMEDIAL INVESTIGATION SOIL BORING LOCATION (AKRF, 2016)
SRI-SV-1	SUPPLEMENTAL REMEDIAL INVESTIGATION TEMPORARY SOIL VAPOR POINT LOCATION (AKRF, 2016)
SRI-MW-2/ SRI-SB-2	SUPPLEMENTAL REMEDIAL INVESTIGATION GROUNDWATER WELL/ SOIL BORING LOCATION (AKRF, 2016)
SRI-MW-4	SUPPLEMENTAL REMEDIAL INVESTIGATION GROUNDWATER WELL LOCATION (AKRF, 2016)
SRI-AA-1	SUPPLEMENTAL REMEDIAL INVESTIGATION AMBIENT AIR SAMPLE LOCATION (AKRF, 2016)
SSB-1	DELINEATION SAMPLING SOIL BORING LOCATION (AKRF, 2016)
SSV-1	DELINEATION SAMPLING TEMPORARY SOIL VAPOR POINT LOCATION (AKRF, 2016)
SB-6	REMEDIAL INVESTIGATION SOIL BORING LOCATION (AKRF, 2015)
SV-1	REMEDIAL INVESTIGATION TEMPORARY SOIL VAPOR POINT LOCATION (AKRF, 2015)
SB-1/GW-1	REMEDIAL INVESTIGATION SOIL BORING/GROUNDWATER LOCATION (AKRF, 2015)
AA-1	REMEDIAL INVESTIGATION AMBIENT AIR SAMPLE LOCATION (AKRF, 2015)
SVE-01	SOIL VAPOR EXTRACTION PILOT TEST WELL LOCATION
	FORMER 550-GALLON UNDERGROUND STORAGE TANK LOCATION

0 15 30 60
SCALE IN FEET

Map Source:
Geoland Land Surveying P.C. "Block 2714 New Lot 33", updated 04-29-2019.

AKRF
440 Park Avenue South, New York, NY 10016

New 470 Project
12 Eckford Street
Brooklyn, New York

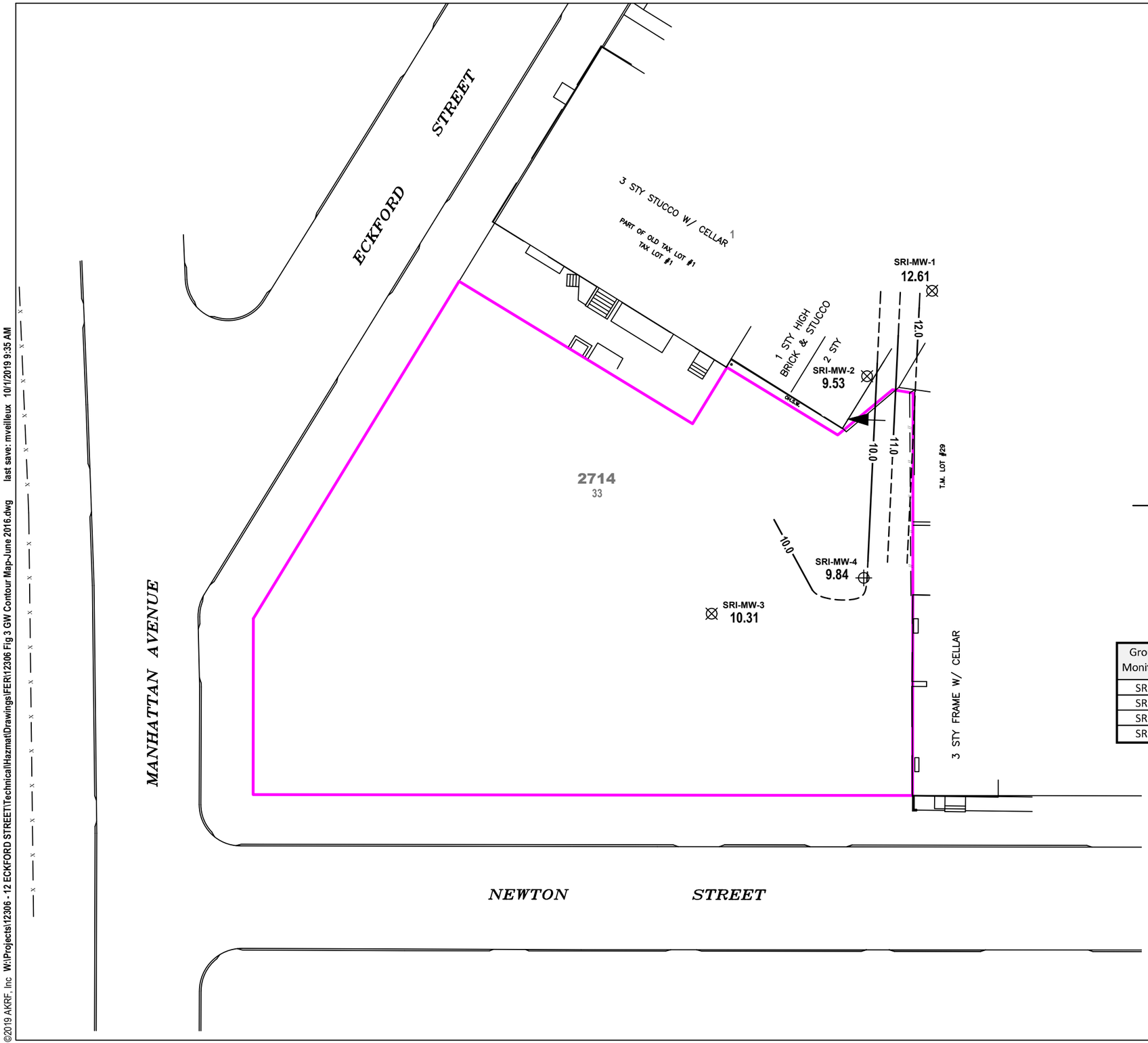
SITE PLAN

DATE
10/1/2019

PROJECT NO.
12306

FIGURE
2

 W:\Projects\12306 - 12 ECKFORD STREET\Technical\Hazmat\Drawings\FER\12306 Fig 2 Site Plan.dwg last save: mweilleux 10/1/2019 9:33 AM



LEGEND

33	LOT BOUNDARY AND NUMBER
2714	BLOCK NUMBER
	PROJECT SITE BOUNDARY
SRI-MW-2	SUPPLEMENTAL REMEDIAL INVESTIGATION GROUNDWATER WELL LOCATION (AKRF, 2016)
SRI-MW-4	SUPPLEMENTAL REMEDIAL INVESTIGATION GROUNDWATER WELL LOCATION (AKRF, 2016)
12.61	WATER TABLE ELEVATION IN FEET
10.0	GROUNDWATER ELEVATION CONTOUR IN FEET (DASHED WHERE INFERRED)
	GROUNDWATER FLOW DIRECTION

Groundwater Monitoring Well	Top of Casing Elevation (ft.)	Groundwater (ft. below Top of Casing)	Groundwater Elevation (ft.)
SRI-MW-1	22.34	9.73	12.61
SRI-MW-2	22.21	12.68	9.53
SRI-MW-3	20.52	10.21	10.31
SRI-MW-4	19.00	9.16	9.84

Map Source:
Geoland Land Surveying P.C. "Block 2714 New Lot 33", updated 04-29-2019.

Note: All elevations are reference to the North American Vertical Datum of 1988 (NAVD88).

0 15 30 60
SCALE IN FEET

AKRF
440 Park Avenue South, New York, NY 10016

New 470 Project
12 Eckford Street
Brooklyn, New York

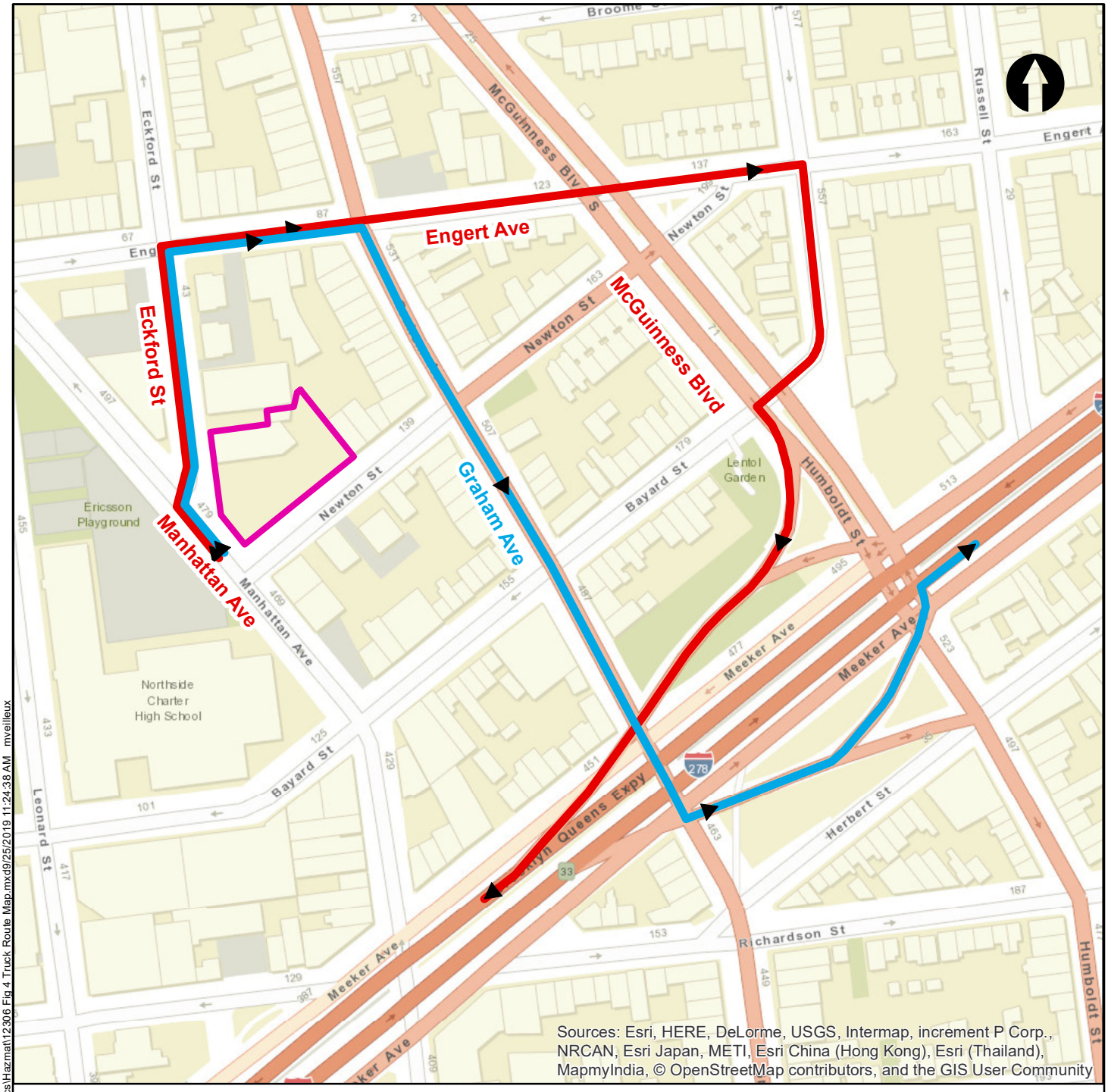
GROUNDWATER CONTOUR MAP
JUNE 6, 2016

DATE
10/1/2019

PROJECT NO.
12306

FIGURE
3

 W:\Projects\12306 - 12 ECKFORD STREET\Technical\Hazmat\Drawings\FER\12306 Fig 3 GW Contour Map-June 2016.dwg last save: mveilleux 10/1/2019 9:35 AM



Legend

- Project Site Location
- Exit Truck Route 278 West
- Exit Truck Route 278 East

0 100 200 400
Feet

AKRF
440 Park Avenue South, New York, NY 10016

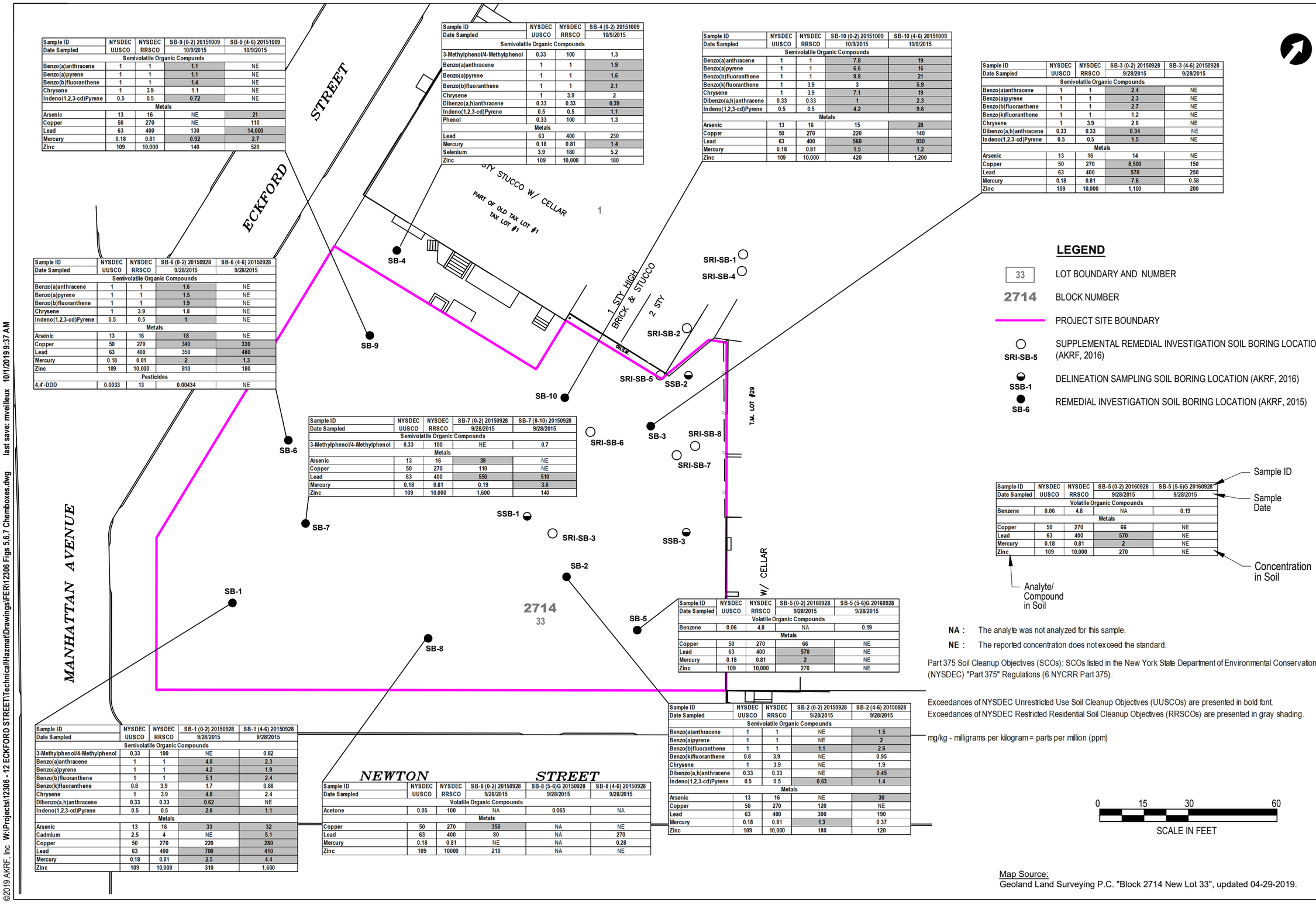
New 470 Project
12 Eckford Street
Brooklyn, New York

TRUCK ROUTE MAP

DATE
9/25/2019

PROJECT NO.
12306

FIGURE
4



Sample ID	NYSDEC	NYSDEC	SB-9 (0-2) 20151009	SB-9 (4-6) 20151009
Date Sampled	UUSCO	RRSCO	10/9/2015	10/9/2015
Semivolatile Organic Compounds				
Benzo(a)anthracene	1	1	1.1	NE
Benzo(a)pyrene	1	1	1.1	NE
Benzo(b)fluoranthene	1	1	1.4	NE
Chrysene	1	3.9	1.1	NE
Indeno(1,2,3-cd)Pyrene	0.5	0.5	0.72	NE
Metals				
Arsenic	13	16	NE	21
Copper	50	270	NE	110
Lead	63	400	130	14,000
Mercury	0.18	0.81	0.92	2.7
Zinc	109	10,000	140	520

Sample ID	NYSDEC	NYSDEC	SB-4 (0-2) 20151009
Date Sampled	UUSCO	RRSCO	10/9/2015
Semivolatile Organic Compounds			
3-Methylphenol/4-Methylphenol	0.33	100	1.3
Benzo(a)anthracene	1	1	1.9
Benzo(a)pyrene	1	1	1.6
Benzo(b)fluoranthene	1	1	2.1
Chrysene	1	3.9	2
Dibenzo(a,h)anthracene	0.33	0.33	0.39
Indeno(1,2,3-cd)Pyrene	0.5	0.5	1.1
Phenol	0.33	100	1.3
Metals			
Lead	63	400	230
Mercury	0.18	0.81	1.4
Selenium	3.9	180	5.2
Zinc	109	10,000	180

Sample ID	NYSDEC	NYSDEC	SB-10 (0-2) 20151009	SB-10 (4-6) 20151009
Date Sampled	UUSCO	RRSCO	10/9/2015	10/9/2015
Semivolatile Organic Compounds				
Benzo(a)anthracene	1	1	7.8	19
Benzo(a)pyrene	1	1	6.6	16
Benzo(b)fluoranthene	1	1	9.8	21
Benzo(k)fluoranthene	1	3.9	3	5.9
Chrysene	1	3.9	7.1	19
Dibenzo(a,h)anthracene	0.33	0.33	1	2.3
Indeno(1,2,3-cd)Pyrene	0.5	0.5	4.2	9.6
Metals				
Arsenic	13	16	15	28
Copper	50	270	220	140
Lead	63	400	560	930
Mercury	0.18	0.81	1.5	1.2
Zinc	109	10,000	420	1,200

Sample ID	NYSDEC	NYSDEC	SB-3 (0-2) 20150928	SB-3 (4-6) 20150928
Date Sampled	UUSCO	RRSCO	9/28/2015	9/28/2015
Semivolatile Organic Compounds				
Benzo(a)anthracene	1	1	2.4	NE
Benzo(a)pyrene	1	1	2.3	NE
Benzo(b)fluoranthene	1	1	2.7	NE
Benzo(k)fluoranthene	1	1	1.2	NE
Chrysene	1	3.9	2.6	NE
Dibenzo(a,h)anthracene	0.33	0.33	0.34	NE
Indeno(1,2,3-cd)Pyrene	0.5	0.5	1.5	NE
Metals				
Arsenic	13	16	14	NE
Copper	50	270	8,500	150
Lead	63	400	570	250
Mercury	0.18	0.81	7.6	0.58
Zinc	109	10,000	1,100	200

Sample ID	NYSDEC	NYSDEC	SB-6 (0-2) 20150928	SB-6 (4-6) 20150928
Date Sampled	UUSCO	RRSCO	9/28/2015	9/28/2015
Semivolatile Organic Compounds				
Benzo(a)anthracene	1	1	1.6	NE
Benzo(a)pyrene	1	1	1.5	NE
Benzo(b)fluoranthene	1	1	1.9	NE
Chrysene	1	3.9	1.8	NE
Indeno(1,2,3-cd)Pyrene	0.5	0.5	1	NE
Metals				
Arsenic	13	16	18	NE
Copper	50	270	340	330
Lead	63	400	350	480
Mercury	0.18	0.81	2	1.3
Zinc	109	10,000	810	180
Pesticides				
4,4'-DDD	0.0033	13	0.00434	NE

Sample ID	NYSDEC	NYSDEC	SB-7 (0-2) 20150928	SB-7 (8-10) 20150928
Date Sampled	UUSCO	RRSCO	9/28/2015	9/28/2015
Semivolatile Organic Compounds				
3-Methylphenol/4-Methylphenol	0.33	100	NE	0.7
Metals				
Arsenic	13	16	39	NE
Copper	50	270	110	NE
Lead	63	400	550	510
Mercury	0.18	0.81	0.19	3.6
Zinc	109	10,000	1,600	140

Sample ID	NYSDEC	NYSDEC	SB-5 (0-2) 20160928	SB-5 (5-6)G 20160928
Date Sampled	UUSCO	RRSCO	9/28/2015	9/28/2015
Volatile Organic Compounds				
Benzene	0.06	4.8	NA	0.19
Metals				
Copper	50	270	66	NE
Lead	63	400	570	NE
Mercury	0.18	0.81	2	NE
Zinc	109	10,000	270	NE

Sample ID	NYSDEC	NYSDEC	SB-1 (0-2) 20150928	SB-1 (4-6) 20150928
Date Sampled	UUSCO	RRSCO	9/28/2015	9/28/2015
Semivolatile Organic Compounds				
3-Methylphenol/4-Methylphenol	0.33	100	NE	0.82
Benzo(a)anthracene	1	1	4.8	2.3
Benzo(a)pyrene	1	1	4.2	1.9
Benzo(b)fluoranthene	1	1	5.1	2.4
Benzo(k)fluoranthene	0.8	3.9	1.7	0.88
Chrysene	1	3.9	4.8	2.4
Dibenzo(a,h)anthracene	0.33	0.33	0.62	NE
Indeno(1,2,3-cd)Pyrene	0.5	0.5	2.6	1.1
Metals				
Arsenic	13	16	33	32
Cadmium	2.5	4	NE	5.1
Copper	50	270	220	280
Lead	63	400	700	410
Mercury	0.18	0.81	2.5	4.4
Zinc	109	10,000	310	1,600

Sample ID	NYSDEC	NYSDEC	SB-8 (0-2) 20150928	SB-8 (5-6)G 20150928	SB-8 (4-6) 20150928
Date Sampled	UUSCO	RRSCO	9/28/2015	9/28/2015	9/28/2015
Volatile Organic Compounds					
Acetone	0.05	100	NA	0.065	NA
Metals					
Copper	50	270	350	NA	NE
Lead	63	400	80	NA	270
Mercury	0.18	0.81	NE	NA	0.28
Zinc	109	10000	210	NA	NE

Sample ID	NYSDEC	NYSDEC	SB-2 (0-2) 20150928	SB-2 (4-6) 20150928
Date Sampled	UUSCO	RRSCO	9/28/2015	9/28/2015
Semivolatile Organic Compounds				
Benzo(a)anthracene	1	1	NE	1.5
Benzo(a)pyrene	1	1	NE	2
Benzo(b)fluoranthene	1	1	1.1	2.6
Benzo(k)fluoranthene	0.8	3.9	NE	0.95
Chrysene	1	3.9	NE	1.9
Dibenzo(a,h)anthracene	0.33	0.33	NE	0.45
Indeno(1,2,3-cd)Pyrene	0.5	0.5	0.63	1.4
Metals				
Arsenic	13	16	NE	30
Copper	50	270	120	NE
Lead	63	400	300	190
Mercury	0.18	0.81	1.3	0.37
Zinc	109	10,000	180	120

LEGEND

- 33 — LOT BOUNDARY AND NUMBER
- 2714 — BLOCK NUMBER
- PROJECT SITE BOUNDARY
- SRI-SB-5 — SUPPLEMENTAL REMEDIAL INVESTIGATION SOIL BORING LOCATION (AKRF, 2016)
- SSB-1 — DELINEATION SAMPLING SOIL BORING LOCATION (AKRF, 2016)
- SB-6 — REMEDIAL INVESTIGATION SOIL BORING LOCATION (AKRF, 2015)

Sample ID
Sample Date
Concentration in Soil
Analyte/ Compound in Soil

NA : The analyte was not analyzed for this sample.

NE : The reported concentration does not exceed the standard.

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.
Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are presented in gray shading.

mg/kg - milligrams per kilogram = parts per million (ppm)

0 15 30 60
SCALE IN FEET

Map Source:
Geoland Land Surveying P.C. "Block 2714 New Lot 33", updated 04-29-2019.

AKRF
440 Park Avenue South, New York, NY 10016

New 470 Project
12 Eckford Street
Brooklyn, New York

RI AND SRI SOIL/FILL SAMPLE CONCENTRATIONS ABOVE NYSDEC UUSCOS AND/OR RRSCOS

DATE
10/1/2019

PROJECT NO.
12306

FIGURE
5

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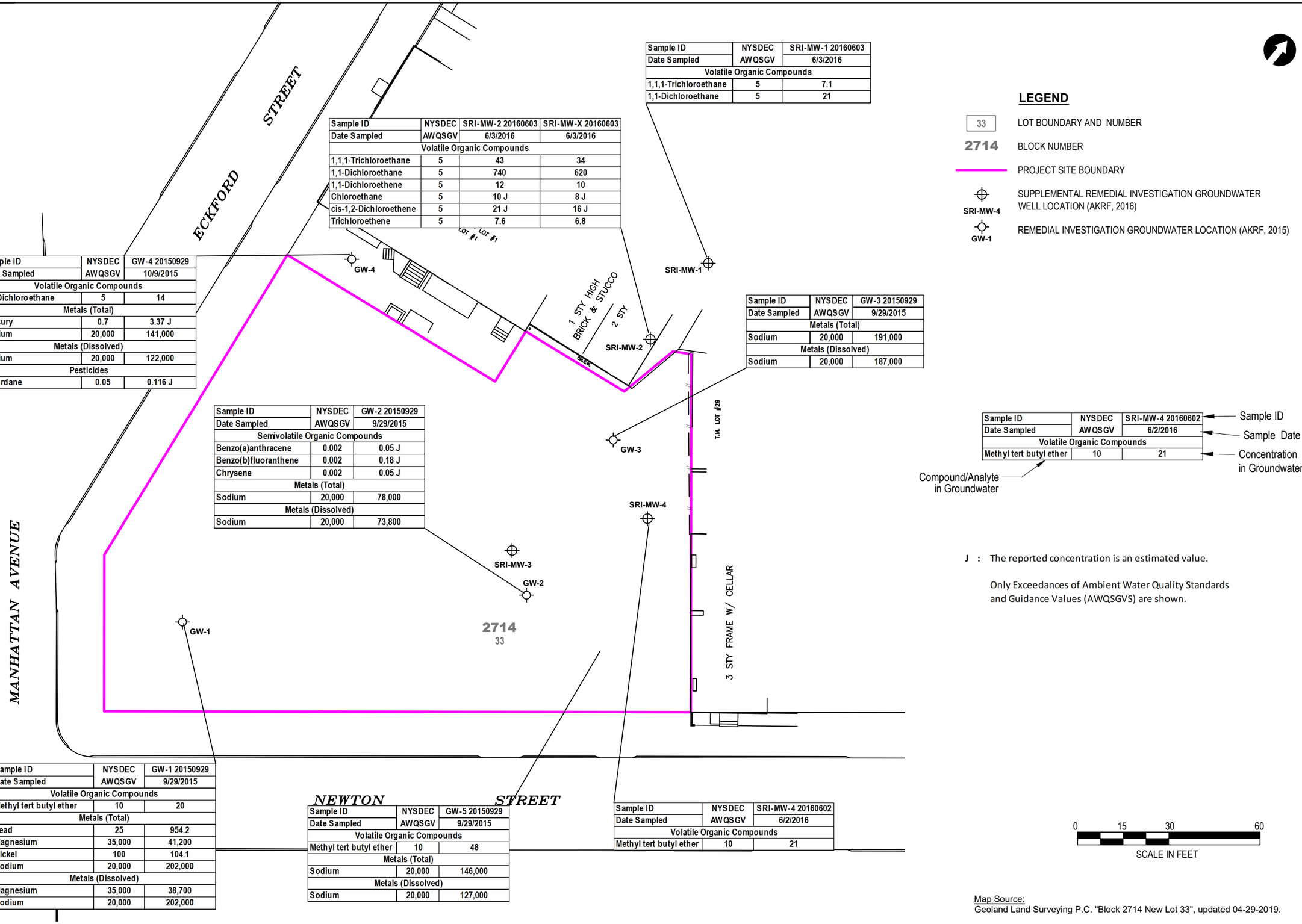


Sample ID	NYSDEC	GW-4 20150929
Date Sampled	AWQSGV	10/9/2015
Volatile Organic Compounds		
1,1-Dichloroethane	5	14
Metals (Total)		
Mercury	0.7	3.37 J
Sodium	20,000	141,000
Metals (Dissolved)		
Sodium	20,000	122,000
Pesticides		
Chlordane	0.05	0.116 J

Sample ID	NYSDEC	SRI-MW-2 20160603	SRI-MW-X 20160603
Date Sampled	AWQSGV	6/3/2016	6/3/2016
Volatile Organic Compounds			
1,1,1-Trichloroethane	5	43	34
1,1-Dichloroethane	5	740	620
1,1-Dichloroethene	5	12	10
Chloroethane	5	10 J	8 J
cis-1,2-Dichloroethene	5	21 J	16 J
Trichloroethene	5	7.6	6.8

Sample ID	NYSDEC	SRI-MW-1 20160603
Date Sampled	AWQSGV	6/3/2016
Volatile Organic Compounds		
1,1,1-Trichloroethane	5	7.1
1,1-Dichloroethane	5	21

Sample ID	NYSDEC	GW-3 20150929
Date Sampled	AWQSGV	9/29/2015
Metals (Total)		
Sodium	20,000	191,000
Metals (Dissolved)		
Sodium	20,000	187,000

Sample ID	NYSDEC	GW-2 20150929
Date Sampled	AWQSGV	9/29/2015
Semivolatile Organic Compounds		
Benzo(a)anthracene	0.002	0.05 J
Benzo(b)fluoranthene	0.002	0.18 J
Chrysene	0.002	0.05 J
Metals (Total)		
Sodium	20,000	78,000
Metals (Dissolved)		
Sodium	20,000	73,800

Sample ID	NYSDEC	SRI-MW-4 20160602
Date Sampled	AWQSGV	6/2/2016
Volatile Organic Compounds		
Methyl tert butyl ether	10	21

Sample ID
Sample Date
Concentration in Groundwater
Compound/Analyte in Groundwater

Sample ID	NYSDEC	GW-1 20150929
Date Sampled	AWQSGV	9/29/2015
Volatile Organic Compounds		
Methyl tert butyl ether	10	20
Metals (Total)		
Lead	25	954.2
Magnesium	35,000	41,200
Nickel	100	104.1
Sodium	20,000	202,000
Metals (Dissolved)		
Magnesium	35,000	38,700
Sodium	20,000	202,000

Sample ID	NYSDEC	GW-5 20150929
Date Sampled	AWQSGV	9/29/2015
Volatile Organic Compounds		
Methyl tert butyl ether	10	48
Metals (Total)		
Sodium	20,000	146,000
Metals (Dissolved)		
Sodium	20,000	127,000

Sample ID	NYSDEC	SRI-MW-4 20160602
Date Sampled	AWQSGV	6/2/2016
Volatile Organic Compounds		
Methyl tert butyl ether	10	21

LEGEND

- 33 — LOT BOUNDARY AND NUMBER
- 2714 — BLOCK NUMBER
- PROJECT SITE BOUNDARY
- SRI-MW-4 — SUPPLEMENTAL REMEDIAL INVESTIGATION GROUNDWATER WELL LOCATION (AKRF, 2016)
- GW-1 — REMEDIAL INVESTIGATION GROUNDWATER LOCATION (AKRF, 2015)

J : The reported concentration is an estimated value.

Only Exceedances of Ambient Water Quality Standards and Guidance Values (AWQSGVS) are shown.

0 15 30 60
SCALE IN FEET

Map Source:
Geoland Land Surveying P.C. "Block 2714 New Lot 33", updated 04-29-2019.

AKRF
440 Park Avenue South, New York, NY 10016

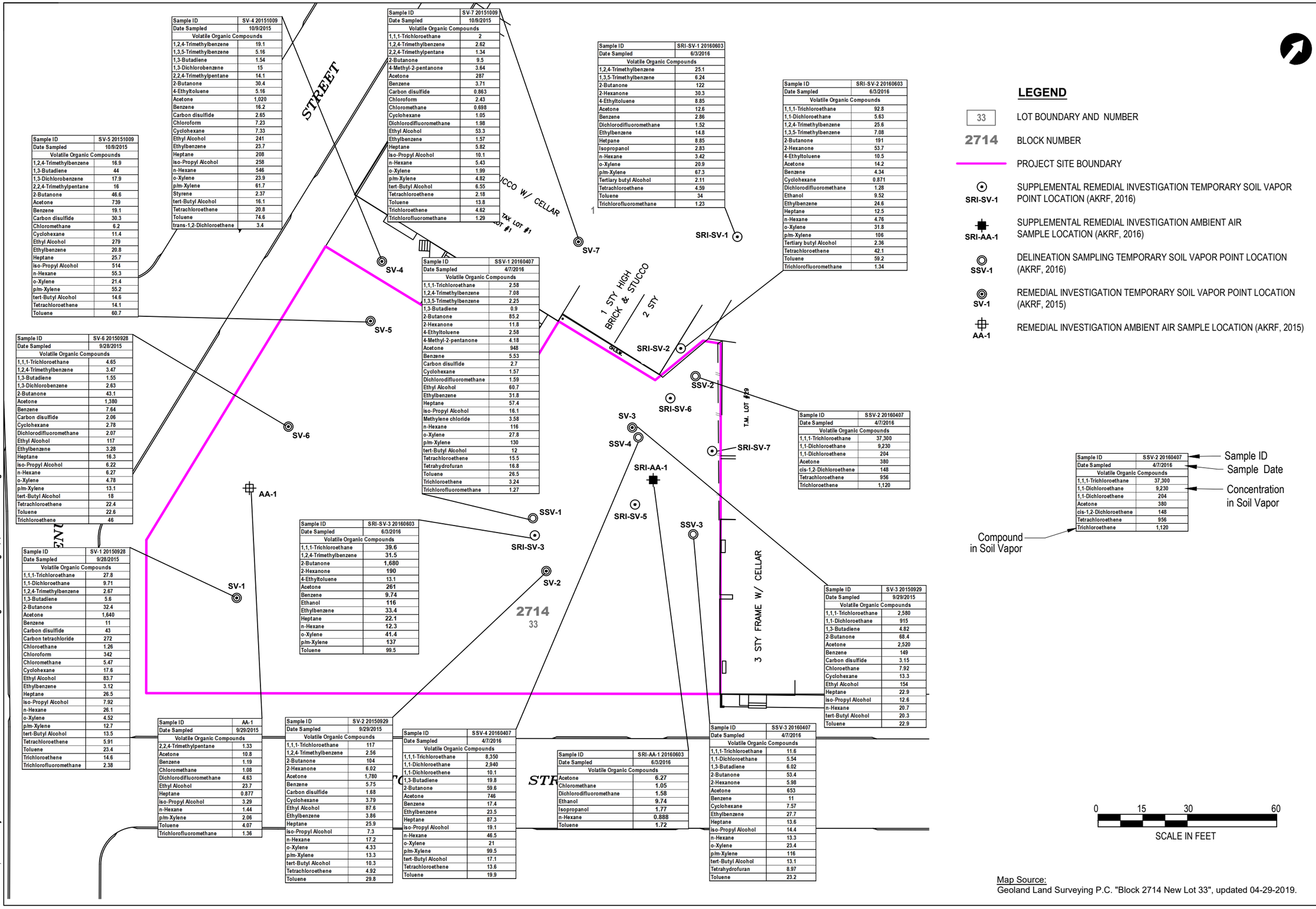
New 470 Project
12 Eckford Street
Brooklyn, New York

RI AND SRI GROUNDWATER SAMPLE CONCENTRATIONS ABOVE NYSDEC AWQSGVS

DATE
10/1/2019

PROJECT NO.
12306

FIGURE
6



Sample ID	SV-4 20151009
Date Sampled	10/9/2015
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	19.1
1,3,5-Trimethylbenzene	5.16
1,3-Butadiene	1.54
1,3-Dichlorobenzene	15
2,2,4-Trimethylpentane	14.1
2-Butanone	30.4
4-Ethyltoluene	5.16
Acetone	1,020
Benzene	16.2
Carbon disulfide	2.65
Chloroform	7.23
Cyclohexane	7.33
Ethyl Alcohol	241
Ethylbenzene	23.7
Heptane	208
iso-Propyl Alcohol	258
n-Hexane	546
o-Xylene	23.9
p/m-Xylene	61.7
Styrene	2.37
tert-Butyl Alcohol	16.1
Tetrachloroethene	20.8
Toluene	74.6
trans-1,2-Dichloroethene	3.4

Sample ID	SV-7 20151009
Date Sampled	10/9/2015
Volatile Organic Compounds	
1,1,1-Trichloroethane	2
1,2,4-Trimethylbenzene	2.62
2,2,4-Trimethylpentane	1.34
2-Butanone	9.5
4-Methyl-2-pentanone	3.64
Acetone	287
Benzene	3.71
Carbon disulfide	0.863
Chloroform	2.43
Chloromethane	0.698
Cyclohexane	1.05
Dichlorodifluoromethane	1.98
Ethyl Alcohol	53.3
Ethylbenzene	1.57
Heptane	5.82
iso-Propyl Alcohol	10.1
n-Hexane	5.43
o-Xylene	1.99
p/m-Xylene	4.82
tert-Butyl Alcohol	6.55
Tetrachloroethene	2.18
Toluene	13.8
Trichloroethene	4.62
Trichlorofluoromethane	1.29

Sample ID	SRI-SV-1 20160603
Date Sampled	6/3/2016
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	25.1
1,3,5-Trimethylbenzene	6.24
2-Butanone	122
2-Hexanone	30.3
4-Ethyltoluene	8.85
Acetone	12.6
Benzene	2.86
Dichlorodifluoromethane	1.52
Ethylbenzene	14.8
Hetpane	8.85
Isopropanol	2.83
n-Hexane	3.42
o-Xylene	20.9
p/m-Xylene	67.3
Tertiary butyl Alcohol	2.11
Tetrachloroethene	4.59
Toluene	34
Trichlorofluoromethane	1.23

Sample ID	SRI-SV-2 20160603
Date Sampled	6/3/2016
Volatile Organic Compounds	
1,1,1-Trichloroethane	92.8
1,1-Dichloroethane	5.63
1,2,4-Trimethylbenzene	25.6
1,3,5-Trimethylbenzene	7.08
2-Butanone	191
2-Hexanone	53.7
4-Ethyltoluene	10.5
Acetone	14.2
Benzene	4.34
Cyclohexane	0.871
Dichlorodifluoromethane	1.28
Ethanol	9.52
Ethylbenzene	24.6
Heptane	12.5
n-Hexane	4.76
o-Xylene	31.8
p/m-Xylene	106
Tertiary butyl Alcohol	2.36
Tetrachloroethene	42.1
Toluene	59.2
Trichlorofluoromethane	1.34

Sample ID	SV-5 20151009
Date Sampled	10/9/2015
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	16.9
1,3-Butadiene	44
1,3-Dichlorobenzene	17.9
2,2,4-Trimethylpentane	16
2-Butanone	46.6
Acetone	739
Benzene	19.1
Carbon disulfide	30.3
Chloromethane	6.2
Cyclohexane	11.4
Ethyl Alcohol	279
Ethylbenzene	20.8
Heptane	25.7
iso-Propyl Alcohol	514
n-Hexane	55.3
o-Xylene	21.4
p/m-Xylene	55.2
tert-Butyl Alcohol	14.6
Tetrachloroethene	14.1
Toluene	60.7

Sample ID	SSV-1 20160407
Date Sampled	4/7/2016
Volatile Organic Compounds	
1,1,1-Trichloroethane	2.58
1,2,4-Trimethylbenzene	7.08
1,3,5-Trimethylbenzene	2.25
1,3-Butadiene	0.9
2-Butanone	85.2
2-Hexanone	11.8
4-Ethyltoluene	2.58
4-Methyl-2-pentanone	4.18
Acetone	948
Benzene	5.53
Carbon disulfide	2.7
Cyclohexane	1.57
Dichlorodifluoromethane	1.59
Ethyl Alcohol	60.7
Ethylbenzene	31.8
Heptane	57.4
iso-Propyl Alcohol	16.1
Methylene chloride	3.58
n-Hexane	116
o-Xylene	27.8
p/m-Xylene	130
tert-Butyl Alcohol	12
Tetrachloroethene	15.5
Tetrahydrofuran	16.8
Toluene	26.5
Trichloroethene	3.24
Trichlorofluoromethane	1.27

Sample ID	SSV-2 20160407
Date Sampled	4/7/2016
Volatile Organic Compounds	
1,1,1-Trichloroethane	37,300
1,1-Dichloroethane	9,230
1,1-Dichloroethene	204
Acetone	380
cis-1,2-Dichloroethene	148
Tetrachloroethene	956
Trichloroethene	1,120

Sample ID	SV-6 20150928
Date Sampled	9/28/2015
Volatile Organic Compounds	
1,1,1-Trichloroethane	4.65
1,2,4-Trimethylbenzene	3.47
1,3-Butadiene	1.55
1,3-Dichlorobenzene	2.63
2-Butanone	43.1
Acetone	1,380
Benzene	7.64
Carbon disulfide	2.06
Cyclohexane	2.78
Dichlorodifluoromethane	2.07
Ethyl Alcohol	117
Ethylbenzene	3.28
Heptane	16.3
iso-Propyl Alcohol	6.22
n-Hexane	6.27
o-Xylene	4.78
p/m-Xylene	13.1
tert-Butyl Alcohol	18
Tetrachloroethene	22.4
Toluene	22.6
Trichloroethene	46

Sample ID	SRI-SV-3 20160603
Date Sampled	6/3/2016
Volatile Organic Compounds	
1,1,1-Trichloroethane	39.6
1,2,4-Trimethylbenzene	31.5
2-Butanone	1,680
2-Hexanone	190
4-Ethyltoluene	13.1
Acetone	261
Benzene	9.74
Ethanol	116
Ethylbenzene	33.4
Heptane	22.1
n-Hexane	12.3
o-Xylene	41.4
p/m-Xylene	137
Toluene	99.5

Sample ID	SV-3 20150929
Date Sampled	9/29/2015
Volatile Organic Compounds	
1,1,1-Trichloroethane	2,580
1,1-Dichloroethane	915
1,3-Butadiene	4.82
2-Butanone	68.4
Acetone	2,520
Benzene	149
Carbon disulfide	3.15
Chloroethane	7.92
Cyclohexane	13.3
Ethyl Alcohol	154
Heptane	22.9
iso-Propyl Alcohol	12.6
n-Hexane	20.7
tert-Butyl Alcohol	20.3
Toluene	22.9

Sample ID	SV-1 20150928
Date Sampled	9/28/2015
Volatile Organic Compounds	
1,1,1-Trichloroethane	27.8
1,1-Dichloroethane	9.71
1,2,4-Trimethylbenzene	2.67
1,3-Butadiene	5.6
2-Butanone	32.4
Acetone	1,640
Benzene	11
Carbon disulfide	43
Carbon tetrachloride	272
Chloroethane	1.26
Chloroform	342
Chloromethane	5.47
Cyclohexane	17.6
Ethyl Alcohol	83.7
Ethylbenzene	3.12
Heptane	26.5
iso-Propyl Alcohol	7.92
n-Hexane	26.1
o-Xylene	4.52
p/m-Xylene	12.7
tert-Butyl Alcohol	13.5
Tetrachloroethene	5.91
Toluene	23.4
Trichloroethene	14.6
Trichlorofluoromethane	2.38

Sample ID	AA-1
Date Sampled	9/29/2015
Volatile Organic Compounds	
2,2,4-Trimethylpentane	1.33
Acetone	10.8
Benzene	1.19
Chloromethane	1.08
Dichlorodifluoromethane	4.63
Ethyl Alcohol	23.7
Heptane	0.877
iso-Propyl Alcohol	3.29
n-Hexane	1.44
p/m-Xylene	2.06
Toluene	4.07
Trichlorofluoromethane	1.36

Sample ID	SV-2 20150929
Date Sampled	9/29/2015
Volatile Organic Compounds	
1,1,1-Trichloroethane	117
1,2,4-Trimethylbenzene	2.56
2-Butanone	104
2-Hexanone	6.02
Acetone	1,780
Benzene	5.75
Carbon disulfide	1.68
Cyclohexane	3.79
Ethyl Alcohol	87.6
Ethylbenzene	3.86
Heptane	25.9
iso-Propyl Alcohol	7.3
n-Hexane	17.2
o-Xylene	4.33
p/m-Xylene	13.3
tert-Butyl Alcohol	10.3
Tetrachloroethene	4.92
Toluene	29.8

Sample ID	SSV-4 20160407
Date Sampled	4/7/2016
Volatile Organic Compounds	
1,1,1-Trichloroethane	8,350
1,1-Dichloroethane	2,940
1,1-Dichloroethene	10.1
1,3-Butadiene	19.8
2-Butanone	59.6
Acetone	746
Benzene	17.4
Ethylbenzene	23.5
Heptane	87.3
iso-Propyl Alcohol	19.1
n-Hexane	46.5
o-Xylene	21
p/m-Xylene	99.5
tert-Butyl Alcohol	17.1
Tetrachloroethene	13.6
Toluene	19.9

Sample ID	SRI-AA-1 20160603
Date Sampled	6/3/2016
Volatile Organic Compounds	
Acetone	6.27
Chloromethane	1.05
Dichlorodifluoromethane	1.58
Ethanol	9.74
Isopropanol	1.77
n-Hexane	0.888
Toluene	1.72

Sample ID	SSV-3 20160407
Date Sampled	4/7/2016
Volatile Organic Compounds	
1,1,1-Trichloroethane	11.6
1,1-Dichloroethane	5.54
1,3-Butadiene	6.02
2-Butanone	53.4
2-Hexanone	5.98
Acetone	653
Benzene	11
Cyclohexane	7.57
Ethylbenzene	27.7
Heptane	13.6
iso-Propyl Alcohol	14.4
n-Hexane	13.3
o-Xylene	23.4
p/m-Xylene	116
tert-Butyl Alcohol	13.1
Tetrahydrofuran	8.97
Toluene	23.2

LEGEND

33	LOT BOUNDARY AND NUMBER
2714	BLOCK NUMBER
	PROJECT SITE BOUNDARY
SRI-SV-1	SUPPLEMENTAL REMEDIAL INVESTIGATION TEMPORARY SOIL VAPOR POINT LOCATION (AKRF, 2016)
SRI-AA-1	SUPPLEMENTAL REMEDIAL INVESTIGATION AMBIENT AIR SAMPLE LOCATION (AKRF, 2016)
SSV-1	DELINEATION SAMPLING TEMPORARY SOIL VAPOR POINT LOCATION (AKRF, 2016)
SV-1	REMEDIAL INVESTIGATION TEMPORARY SOIL VAPOR POINT LOCATION (AKRF, 2015)
AA-1	REMEDIAL INVESTIGATION AMBIENT AIR SAMPLE LOCATION (AKRF, 2015)

Sample ID	SSV-2 20160407
Date Sampled	4/7/2016
Volatile Organic Compounds	
1,1,1-Trichloroethane	37,300
1,1-Dichloroethane	9,230
1,1-Dichloroethene	204
Acetone	380
cis-1,2-Dichloroethene	148
Tetrachloroethene	956
Trichloroethene	1,120

Sample ID
Sample Date
Concentration in Soil Vapor
Compound in Soil Vapor

0 15 30 60
SCALE IN FEET

Map Source:
Geoland Land Surveying P.C. "Block 2714 New Lot 33", updated 04-29-2019.

AKRF
440 Park Avenue South, New York, NY 10016

New 470 Project
12 Eckford Street
Brooklyn, New York

DELINEATION SAMPLING, RI, AND SRI SOIL VAPOR SAMPLE CONCENTRATIONS

DATE
10/1/2019

PROJECT NO.
12306

FIGURE
7

W:\Projects\12306 - 12 ECKFORD STREET\Technical\Hazmat\Drawings\FER\12306 Figs 5,6,7 Chemboxes.dwg last save: mwelleux 10/1/2019 9:39 AM

 W:\Projects\12306 - 12 ECKFORD STREET\Technical\Hazmat\Drawings\FER\12306 Fig 8 Remedial Excav Plan.dwg last save: mveilleux 10/1/2019 9:44 AM

LEGEND

- 33 — LOT BOUNDARY AND NUMBER
- 2714 — BLOCK NUMBER
- PROJECT SITE BOUNDARY
- FORMER 550-GALLON UNDERGROUND STORAGE TANK LOCATION
- EXTENT OF EXCAVATION TO 2 FEET BELOW SURFACE GRADE
- EXTENT OF EXCAVATION TO 4 FEET BELOW SURFACE GRADE
- EXTENT OF EXCAVATION TO 12 FEET BELOW SURFACE GRADE

SCALE IN FEET: 0, 15, 30, 60

STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER — MICHELLE LAPAY — 073934

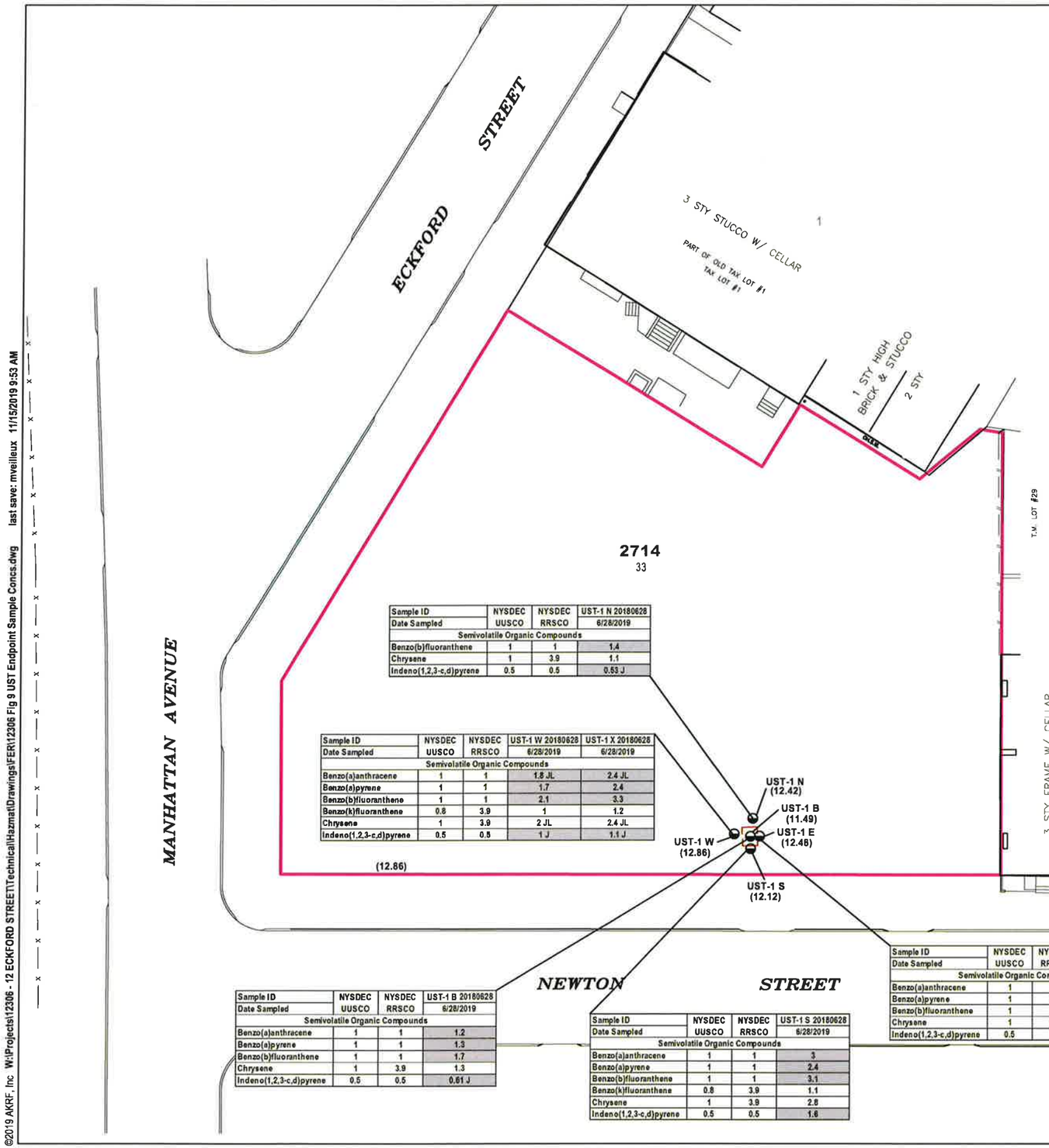
Map Source: Geoland Land Surveying P.C. "Block 2714 New Lot 33", updated 04-29-2019.

New 470 Project
12 Eckford Street
Brooklyn, New York

REMEDIAL EXCAVATION PLAN

AKRF
440 Park Avenue South, New York, NY 10016

FIGURE	PROJECT NO.	DATE
8	12306	10/1/2019



Sample ID	NYSDEC	NYSDEC	UST-1 N 20180628
Date Sampled	UUSCO	RRSCO	6/28/2019
Semivolatile Organic Compounds			
Benzo(b)fluoranthene	1	1	1.4
Chrysene	1	3.9	1.1
Indeno(1,2,3-c,d)pyrene	0.5	0.5	0.53 J

Sample ID	NYSDEC	NYSDEC	UST-1 W 20180628	UST-1 X 20180628
Date Sampled	UUSCO	RRSCO	6/28/2019	6/28/2019
Semivolatile Organic Compounds				
Benzo(a)anthracene	1	1	1.8 JL	2.4 JL
Benzo(a)pyrene	1	1	1.7	2.4
Benzo(b)fluoranthene	1	1	2.1	3.3
Benzo(k)fluoranthene	0.8	3.9	1	1.2
Chrysene	1	3.9	2 JL	2.4 JL
Indeno(1,2,3-c,d)pyrene	0.5	0.5	1 J	1.1 J

Sample ID	NYSDEC	NYSDEC	UST-1 B 20180628
Date Sampled	UUSCO	RRSCO	6/28/2019
Semivolatile Organic Compounds			
Benzo(a)anthracene	1	1	1.2
Benzo(a)pyrene	1	1	1.3
Benzo(b)fluoranthene	1	1	1.7
Chrysene	1	3.9	1.3
Indeno(1,2,3-c,d)pyrene	0.5	0.5	0.61 J

Sample ID	NYSDEC	NYSDEC	UST-1 S 20180628
Date Sampled	UUSCO	RRSCO	6/28/2019
Semivolatile Organic Compounds			
Benzo(a)anthracene	1	1	3
Benzo(a)pyrene	1	1	2.4
Benzo(b)fluoranthene	1	1	3.1
Benzo(k)fluoranthene	0.8	3.9	1.1
Chrysene	1	3.9	2.8
Indeno(1,2,3-c,d)pyrene	0.5	0.5	1.6

Sample ID	NYSDEC	NYSDEC	UST-1 E 20180628
Date Sampled	UUSCO	RRSCO	6/28/2019
Semivolatile Organic Compounds			
Benzo(a)anthracene	1	1	1.3
Benzo(a)pyrene	1	1	1.1
Benzo(b)fluoranthene	1	1	1.6
Chrysene	1	3.9	1.2
Indeno(1,2,3-c,d)pyrene	0.5	0.5	0.64 J

STATE OF NEW YORK
MICHELLE LAPIN
No. 073954
LICENSED PROFESSIONAL ENGINEER

LEGEND

33	LOT BOUNDARY AND NUMBER
2714	BLOCK NUMBER
	PROJECT SITE BOUNDARY
	FORMER 550-GALLON UNDERGROUND STORAGE TANK LOCATION
	UST ENDPOINT SAMPLE LOCATION
(12.42)	SAMPLE ELEVATION IN FEET
	NOTE: ELEVATIONS IN NAVD88.

Sample ID	NYSDEC	NYSDEC	UST-1 N 20180628
Date Sampled	UUSCO	RRSCO	6/28/2019
Semivolatile Organic Compounds			
Benzo(b)fluoranthene	1	1	1.4
Chrysene	1	3.9	1.1
Indeno(1,2,3-c,d)pyrene	0.5	0.5	0.53 J

Sample ID
Sample Date
Concentration
Analyte/Compound

J - The reported concentration is a value above the method detection limit, but is estimated and may be imprecise.
L - The reported concentration is a value above the method detection limit, but is estimated and is biased low.

UST-1 X 20180628 is a blind duplicate of sample UST-1 W 20180628.

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.
Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are presented in gray shading.

mg/kg - milligrams per kilogram = parts per million (ppm)

0 15 30 60
SCALE IN FEET

Map Source:
Geoland Land Surveying P.C. "Block 2714 New Lot 33", updated 04-29-2019.

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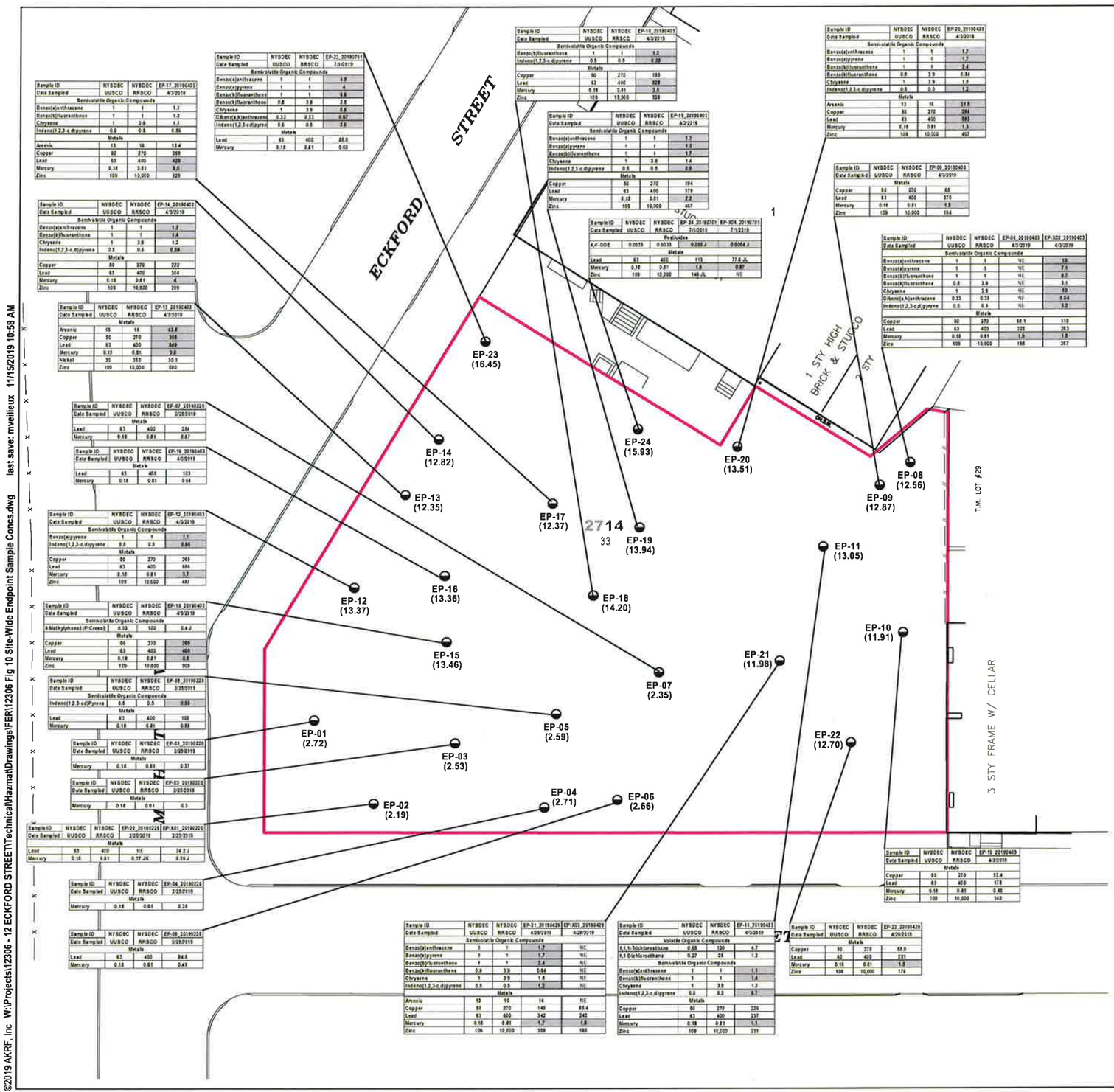
UST ENDPOINT SAMPLE CONCENTRATIONS ABOVE NYSDEC UUSCOs AND/OR RRSCOs

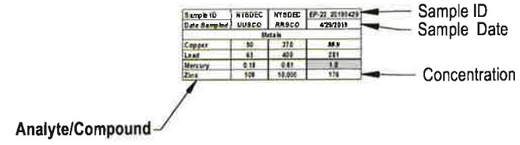
New 470 Project
12 Eckford Street
Brooklyn, New York

DATE
11/15/2019

PROJECT NO.
12306

FIGURE
9





LEGEND

33	LOT BOUNDARY AND NUMBER
2714	BLOCK NUMBER
	PROJECT SITE BOUNDARY
	SITE-WIDE ENDPOINT SAMPLE LOCATION
(12.56)	SAMPLE ELEVATION IN FEET
	NOTE: ELEVATIONS IN NAVD88.

J - The reported concentration is a value above the method detection limit, but is estimated and may be imprecise.
JL - The reported concentration is a value above the method detection limit, but is estimated low and may be imprecise.
K - The reported concentration is proportional to dilution factor and may be exaggerated.
NE - The reported concentration does not exceed the UUSCO or RRSCO.

EP-X01_20190225 is a blind duplicate of sample EP-02_20190225.
EP-X02_20190403 is a blind duplicate of sample EP-08_20190403.
EP-X03_20190429 is a blind duplicate of sample EP-22_20190429.
EP-X04_20190701 is a blind duplicate of sample EP-24_20190701.

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.
Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are presented in gray shading.

mg/kg - milligrams per kilogram = parts per million (ppm)

0 15 30 60
SCALE IN FEET

Map Source:
Geoland Land Surveying P.C. "Block 2714 New Lot 33", updated 04-29-2019.

STATE OF NEW YORK
MICHELLE LAPIN
No. 097934
LICENSED PROFESSIONAL ENGINEER

AKRF
440 Park Avenue South, New York, NY 10016

POST-EXCAVATION SITE-WIDE ENDPOINT SAMPLE CONCENTRATIONS ABOVE NYSDEC UUSCOs AND/OR RRSCOs

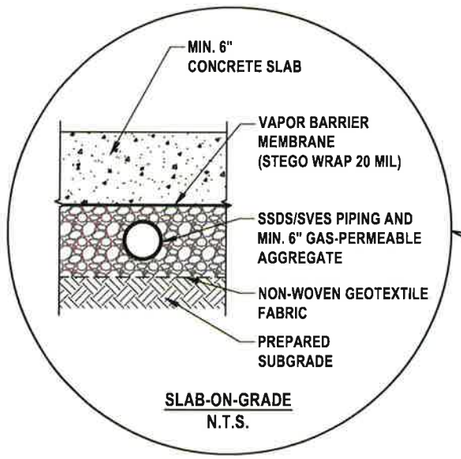
New 470 Project
12 Eckford Street
Brooklyn, New York

DATE
11/15/2019

PROJECT NO.
12306

FIGURE
10

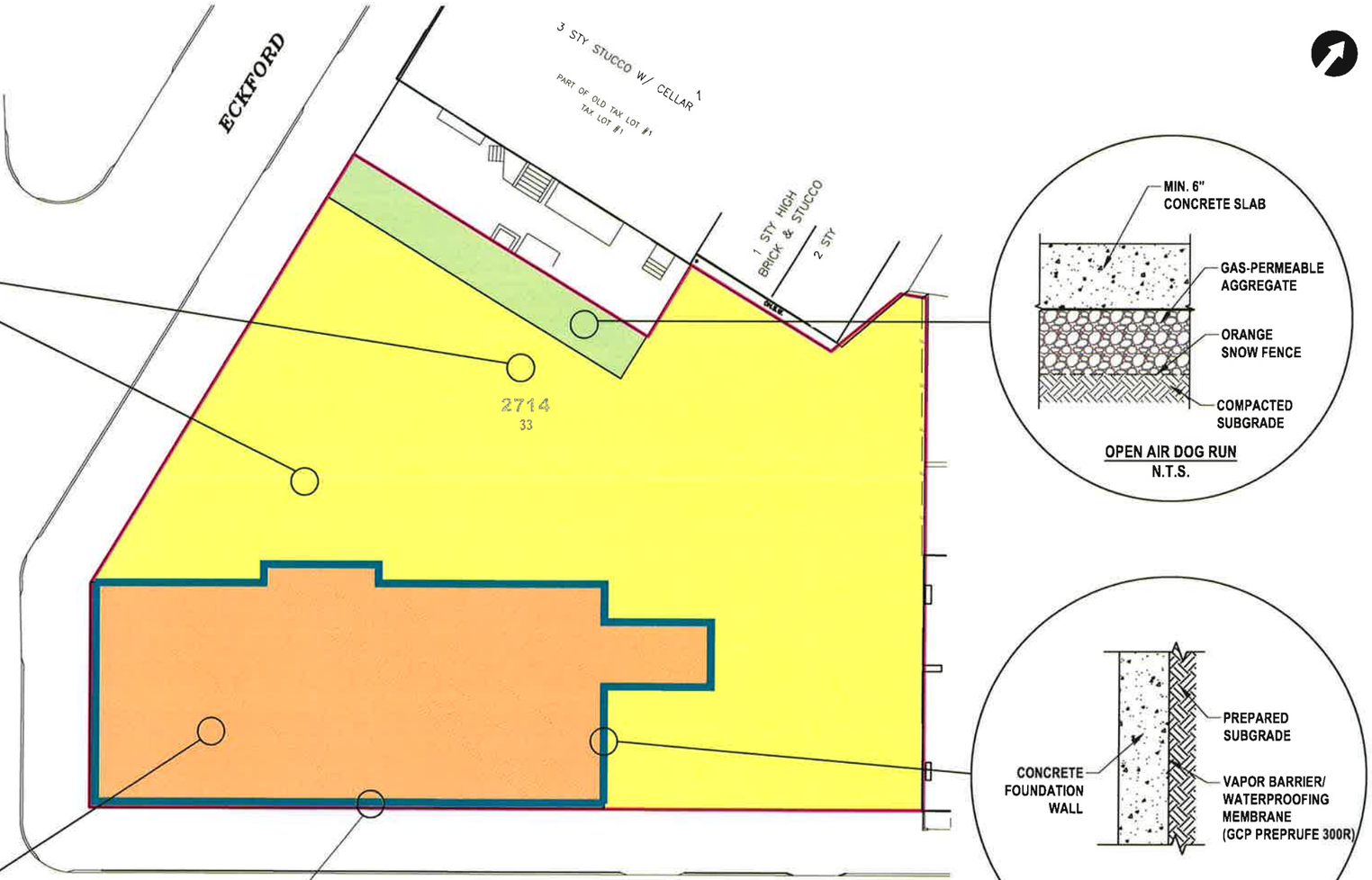
 W:\Projects\12306 - 12 ECKFORD STREET\Technical\Hazmat\Drawings\FER\12306 Fig 10 Site-Wide Endpoint Sample Concs.dwg last save: mveilleux 11/15/2019 10:58 AM



SLAB-ON-GRADE
N.T.S.

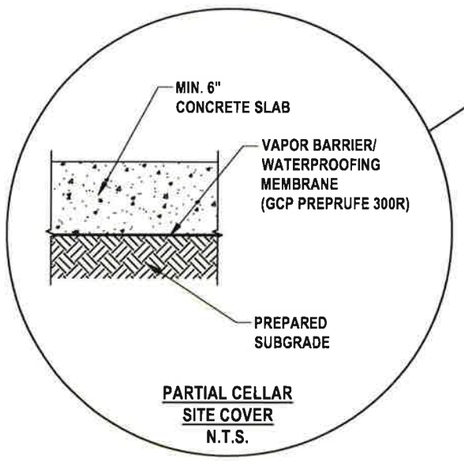
LEGEND

33	LOT BOUNDARY AND NUMBER
2714	BLOCK NUMBER
	PROJECT SITE BOUNDARY
	PARTIAL CELLAR FOUNDATION
	SLAB-ON-GRADE BUILDING FOUNDATION
	OPEN AIR DOG RUN
	PARTIAL CELLAR FOUNDATION WALL

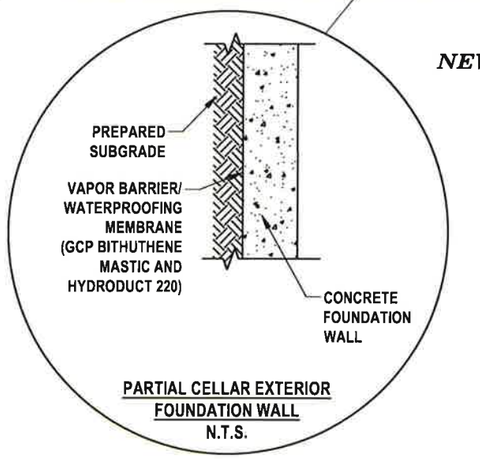


OPEN AIR DOG RUN
N.T.S.

PARTIAL CELLAR INTERIOR FOUNDATION WALL
N.T.S.



PARTIAL CELLAR SITE COVER
N.T.S.



PARTIAL CELLAR EXTERIOR FOUNDATION WALL
N.T.S.

0 15 30 60
SCALE IN FEET

Map Source:
Geoland Land Surveying P.C. "Block 2714 New Lot 33", updated 04-29-2019.

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New 470 Project
12 Eckford Street
Brooklyn, New York

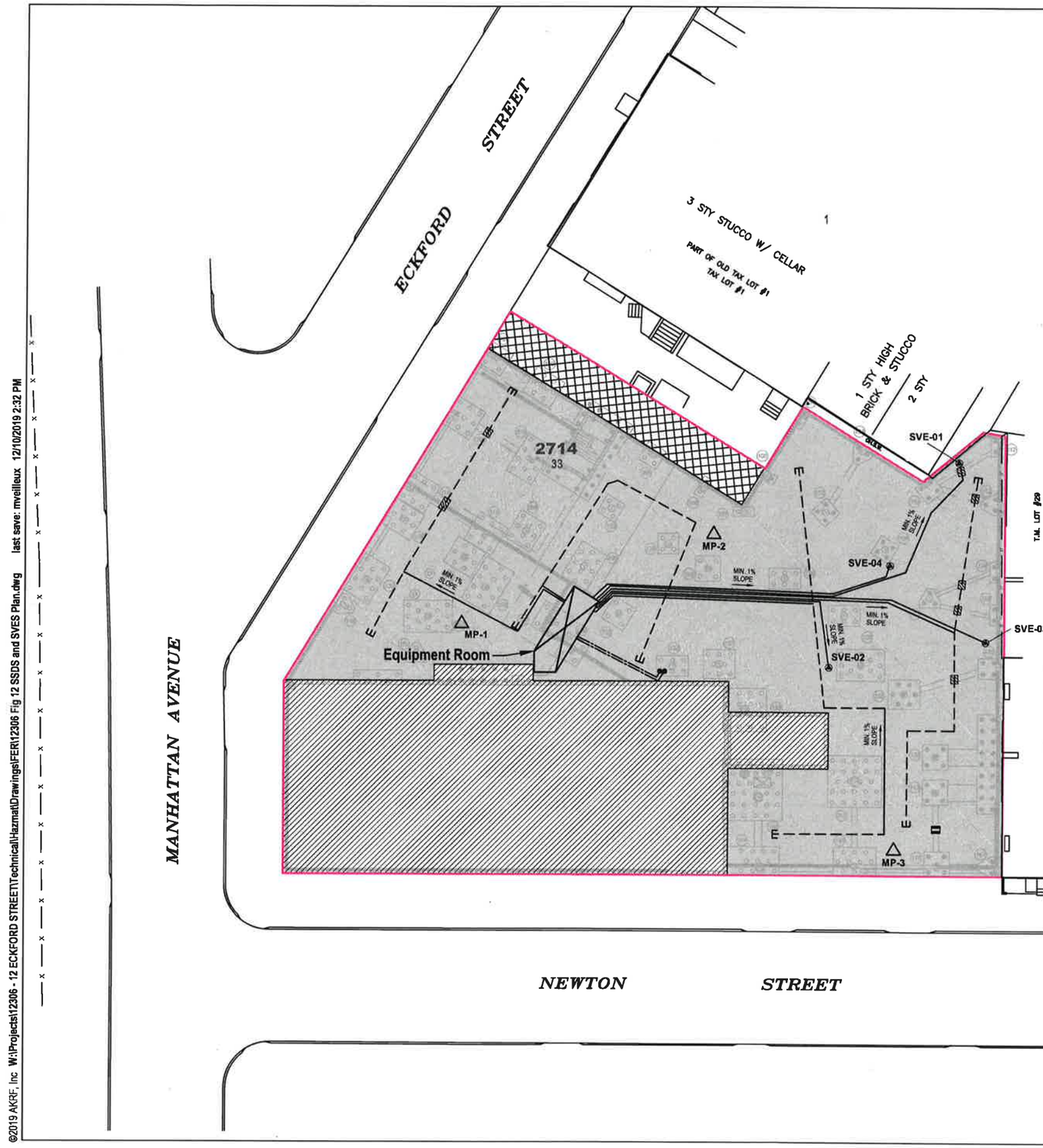
COMPOSITE COVER SYSTEM PLAN

DATE
10/1/2019

PROJECT NO.
12306

FIGURE
11

 W:\Projects\12306 - 12 ECKFORD STREET\Technical\Hazmat\Drawings\FER\12306 Fig 11 Composite Cover System Plan.dwg last save: mveilleux 10/1/2019 9:49 AM



LEGEND

- 33 — LOT BOUNDARY AND NUMBER
- 2714 — BLOCK NUMBER
- PROJECT SITE BOUNDARY
- EXTENT OF SLAB-ON-GRADE BUILDING
- EXTENT OF PARTIAL CELLAR
- EXTENT OF OPEN AIR DOG RUN
- E — 0.002-INCH SLOTTED 4" Ø SCHEDULE 40 PVC PIPING WITH ENDCAP
- SOLID 4" Ø PVC PIPING
- SOLID 6" Ø CPVC PIPING
- SOLID 6" Ø GALVANIZED STEEL RISER
- PIPE SLEEVE THROUGH GRADE BEAM
- COMMUNICATION SLEEVE THROUGH FOUNDATION ELEMENT
- SOIL VAPOR EXTRACTION WELL LOCATION
- MP-1 — VAPOR MONITORING POINT LOCATION

STATE OF NEW YORK · MICHELLE LAPIN · LICENSED PROFESSIONAL ENGINEER

0 15 30 60

SCALE IN FEET

Map Source:
Geoland Land Surveying P.C. "Block 2714 New Lot 33", updated 04-29-2019.

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New 470 Project
12 Eckford Street
Brooklyn, New York

SSDS AND SVES PLAN

DATE	12/10/2019
PROJECT NO.	12306
FIGURE	12

 W:\Projects\12306 - 12 ECKFORD STREET\Technical\Hazmat\Drawings\FER\12306 Fig 12 SSDS and SVES Plan.dwg last save: mveilleux 12/10/2019 2:32 PM

TABLES

Attached Table 1
New 470 Project
12 Eckford Street
Brooklyn, New York
NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives

	NYSDEC Part 375 UUSCO
Volatile Organic Compounds (VOCs)	**mg/kg**
1,1,1-Trichloroethane	**0.68**
1,1-Dichloroethane	**0.27**
1,1-Dichloroethene	**0.33**
1,2,4-Trimethylbenzene	**3.6**
1,2-Dichlorobenzene	**1.1**
1,2-Dichloroethane	**0.02**
1,3,5-Trimethylbenzene (Mesitylene)	**8.4**
1,3-Dichlorobenzene	**2.4**
1,4-Dichlorobenzene	**1.8**
1,4-Dioxane (P-Dioxane)	**0.1**
Acetone	**0.05**
Benzene	**0.06**
Carbon Tetrachloride	**0.76**
Chlorobenzene	**1.1**
Chloroform	**0.37**
Cis-1,2-Dichloroethylene	**0.25**
Ethylbenzene	**1**
m/p xylene	**NS**
Methyl Ethyl Ketone (2-Butanone)	**0.12**
Methylene Chloride	**0.05**
N-Butylbenzene	**12**
n-propylbenzene	**3.9**
o-xylene	**NS**
Sec-Butylbenzene	**11**
T-Butylbenzene	**5.9**
Tert-Butyl Methyl Ether	**0.93**
Tetrachloroethene (PCE)	**1.3**
Toluene	**0.7**
Trans-1,2-Dichloroethene	**0.19**
Trichloroethene (TCE)	**0.47**
Vinyl Chloride	**0.02**
Xylenes (total)	**0.26**

Attached Table 1
New 470 Project
12 Eckford Street
Brooklyn, New York
NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives

	NYSDEC Part 375 UUSCO
Polycyclic Aromatic Hydrocarbons (PAHs)	**mg/kg**
Acenaphthene	**20**
Acenaphthylene	**100**
Anthracene	**100**
Benzo(a)Anthracene	**1**
Benzo(a)Pyrene	**1**
Benzo(b)Fluoranthene	**1**
Polycyclic Aromatic Hydrocarbons (PAHs)	**mg/kg**
Benzo(g,h,i)Perylene	**100**
Benzo(k)Fluoranthene	**0.8**
Chrysene	**1**
Dibenz(a,h)Anthracene	**0.33**
Fluoranthene	**100**
Fluorene	**30**
Indeno(1,2,3-c,d)Pyrene	**0.5**
Naphthalene	**12**
Phenanthrene	**100**
Pyrene	**100**
Polychlorinated Biphenyl (PCBs)	**mg/kg**
PCB-1016 (Aroclor 1016)	**NS**
PCB-1221 (Aroclor 1221)	**NS**
PCB-1232 (Aroclor 1232)	**NS**
PCB-1242 (Aroclor 1242)	**NS**
PCB-1248 (Aroclor 1248)	**NS**
PCB-1254 (Aroclor 1254)	**NS**
PCB-1260 (Aroclor 1260)	**NS**
Total PCBs	**0.1**

Attached Table 1
New 470 Project
12 Eckford Street
Brooklyn, New York
NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives

	NYSDEC Part 375 UUSCO
Pesticides	**mg/kg**
4,4'-DDD	**0.0033**
4,4'-DDE	**0.0033**
4,4'-DDT	**0.0033**
Aldrin	**0.005**
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**
Alpha Endosulfan	**NS**
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**
Beta Endosulfan	**NS**
cis-Chlordane	**0.094**
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**
Dieldrin	**0.005**
Endosulfan Sulfate	**NS**
Endrin	**0.014**
Gamma Bhc (Lindane)	**0.1**
Heptachlor	**0.042**
Metals	**mg/kg**
Aluminum	**NS**
Antimony	**NS**
Arsenic	**13**
Barium	**350**
Beryllium	**7.2**
Cadmium	**2.5**
Calcium	**NS**
Chromium, Total	**NS**
Cobalt	**NS**
Copper	**50**
Iron	**NS**
Lead	**63**
Magnesium	**NS**
Manganese	**1600**
Mercury	**0.18**
Nickel	**30**
Potassium	**NS**
Selenium	**3.9**
Silver	**2**
Sodium	**NS**
Thallium	**NS**
Vanadium	**NS**
Zinc	**109**

Attached Table 1
New 470 Project
12 Eckford Street
Brooklyn, New York
Notes

Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs):
UUSCOs listed in the New York State Department of Environmental Conservation (NYSDEC) Part 375 Regulations (6 NYCRR Part 375), Table 375-6.8(a).

NS : A standard has not been established for the analyte.

mg/kg : milligrams per kilogram = parts per million (ppm)

Attached Table 2
New 470 Project
12 Eckford Street
Broklyn, New York
NYSDEC Part 375 Restricted Residential Use Soil Cleanup Objectives

	NYSDEC Part 375 RRSCOs
Volatile Organic Compounds (VOCs)	**mg/kg**
1,1,1-Trichloroethane	100
1,1-Dichloroethane	26
1,1-Dichloroethene	100
1,2,4-Trimethylbenzene	52
1,2-Dichlorobenzene	100
1,2-Dichloroethane	3.1
1,3,5-Trimethylbenzene (Mesitylene)	52
1,3-Dichlorobenzene	49
1,4-Dichlorobenzene	13
1,4-Dioxane (P-Dioxane)	13
Acetone	100
Benzene	4.8
Carbon Tetrachloride	2.4
Chlorobenzene	100
Chloroform	49
Cis-1,2-Dichloroethylene	100
Ethylbenzene	41
m/p xylene	NS
Methyl Ethyl Ketone (2-Butanone)	100
Methylene Chloride	100
N-Butylbenzene	100
n-propylbenzene	100
o-xylene	NS
Sec-Butylbenzene	100
T-Butylbenzene	100
Tert-Butyl Methyl Ether	100
Tetrachloroethene (PCE)	19
Toluene	100
Trans-1,2-Dichloroethene	100
Trichloroethene (TCE)	21
Vinyl Chloride	0.9
Xylenes (total)	100

Attached Table 2
New 470 Project
12 Eckford Street
Broklyn, New York
NYSDEC Part 375 Restricted Residential Use Soil Cleanup Objectives

	NYSDEC Part 375 RRSCOs
Polycyclic Aromatic Hydrocarbons (PAHs)	**mg/kg**
Acenaphthene	100
Acenaphthylene	100
Anthracene	100
Benzo(a)Anthracene	1
Benzo(a)Pyrene	1
Polycyclic Aromatic Hydrocarbons (PAHs)	**mg/kg**
Benzo(b)Fluoranthene	1
Benzo(g,h,i)Perylene	100
Benzo(k)Fluoranthene	3.9
Chrysene	3.9
Dibenz(a,h)Anthracene	0.33
Fluoranthene	100
Fluorene	100
Indeno(1,2,3-c,d)Pyrene	0.5
Naphthalene	100
Phenanthrene	100
Pyrene	100
Polychlorinated Biphenyl (PCBs)	**mg/kg**
PCB-1016 (Aroclor 1016)	NS
PCB-1221 (Aroclor 1221)	NS
PCB-1232 (Aroclor 1232)	NS
PCB-1242 (Aroclor 1242)	NS
PCB-1248 (Aroclor 1248)	NS
PCB-1254 (Aroclor 1254)	NS
PCB-1260 (Aroclor 1260)	NS
Total PCBs	1

Attached Table 2
New 470 Project
12 Eckford Street
Broklyn, New York
NYSDEC Part 375 Restricted Residential Use Soil Cleanup Objectives

	NYSDEC Part 375 RRSCOs
Pesticides	**mg/kg**
4,4'-DDD	13
4,4'-DDE	8.9
4,4'-DDT	7.9
Aldrin	0.097
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.48
Alpha Endosulfan	NS
Beta Bhc (Beta Hexachlorocyclohexane)	0.36
Beta Endosulfan	NS
cis-Chlordane	4.2
Delta BHC (Delta Hexachlorocyclohexane)	100
Dieldrin	0.2
Endosulfan Sulfate	NS
Endrin	11
Gamma Bhc (Lindane)	1.3
Heptachlor	2.1
Metals	**mg/kg**
Aluminum	NS
Antimony	NS
Arsenic	16
Barium	400
Beryllium	72
Cadmium	4.3
Calcium	NS
Chromium, Total	NS
Cobalt	NS
Copper	270
Iron	NS
Lead	400
Magnesium	NS
Manganese	2000
Mercury	0.81
Nickel	310
Potassium	NS
Selenium	180
Silver	180
Sodium	NS
Thallium	NS
Vanadium	NS
Zinc	10000

Attached Table 2
New 470 Project
12 Eckford Street
Broklyn, New York
Notes

Part 375 Restricted Residential Use Soil Cleanup Objectives (RRSCOs):
RRSCOs listed in the New York State Department of Environmental Conservation (NYSDEC) Part 375 Regulations (6 NYCRR Part 375), Table 375-6.8(b).

NS : A standard has not been established for the analyte.

mg/kg : milligrams per kilogram = parts per million (ppm)

Attached Table 3
New 470 Project
12 Eckford Street
Brooklyn, New York
Outgoing Truck Tracking Log

Total Truck Number	Daily Truck Number	Date	Manifest Number	Truck Company	License Plate	Material & Origin	Tons	Bayshore Soil Management, LLC - Keasbey, NJ Load Number	Clean Earth of Kearney, NJ Load Number	Former NJ Zinc Site - Palmerton, PA Load Number
1	1	7/23/2018	85845	D&A / 18	AT-878N	A1/TP - 7 (0-4)	25.16	1		
2	2	7/23/2018	85846	D&A / 13	AS-500Y	A1/TP - 7 (0-4)	25.51	2		
3	3	7/23/2018	85847	D&A / 3	AT-515L	A1/TP - 7 (0-4)	24.83	3		
4	4	7/23/2018	85848	D&A / 2	AS-356V	B1/TP - 6 (0-4)	27.74	4		
5	5	7/23/2018	85849	D&A /9	AS-463U	B1/TP - 6 (0-4)	25.45	5		
6	6	7/23/2018	85850	D&A / 5	AS-676N	B1/TP - 6 (0-4)	26.47	6		
7	7	7/23/2018	85851	D&A / 18	AT-878N	A1/TP - 7 (0-4)	27.58	7		
8	8	7/23/2018	85852	D&A / 13	AS-500N	A1/TP - 7 (0-4)	28.56	8		
9	9	7/23/2018	85853	D&A / 3	AT-515L	A1/TP - 7 (0-4)	28.34	9		
10	10	7/23/2018	85854	D&A / 5	AS-676N	B1/TP - 6 (0-4)	26.71	10		
11	11	7/23/2018	85855	D&A / 2	AS-356V	B1/TP - 6 (0-4)	27.09	11		
12	12	7/23/2018	85856	D&A / 3	AT-515L	B1/TP - 6 (0-4)	26.31	12		
13	13	7/23/2018	85857	D&A / 9	AS-463U	B1/TP - 6 (0-4)	26.15	13		
14	14	7/23/2018	85858	D&A / 13	AS-500N	B1/TP - 6 (0-4)	27.68	14		
15	15	7/23/2018	85859	D&A / 18	AT-878N	B1/TP - 6 (0-4)	24.45	15		
16	16	7/23/2018	85860	D&A / 5	AS-676N	B1/TP - 6 (0-4)	25.89	16		
17	1	7/24/2018	85861	D&A / 18	AT-878N	A1/TP - 7 (0-4)	25.5	17		
18	2	7/24/2018	85862	D&A / 6	AS-412T	A1/TP - 7 (0-4)	26.95	18		
19	3	7/24/2018	85863	D&A / 4	AS-966E	A1/TP - 7 (0-4)	26.81	19		
20	4	7/24/2018	85864	D&A / 29	AU-435F	B1/TP - 6 (0-4)	29.3	20		
21	5	7/24/2018	85865	D&A / 5	AS-676N	A1/TP - 7 (0-4)	25.83	21		
22	6	7/24/2018	85866	D&A / 7	AS-413T	B1/TP - 6 (0-4)	26.24	22		
23	7	7/24/2018	85867	D&A / 18	AT-878N	A1/TP - 7 (0-4)	25.78	23		
24	8	7/24/2018	85868	D&A / 6	AS-412T	A1/TP - 7 (0-4)	28.61	24		
25	9	7/24/2018	85869	D&A / 7	AS-413T	B1/TP - 6 (0-4)	26.38	25		
26	10	7/24/2018	85870	D&A / 5	AS-676N	A1/TP - 7 (0-4)	27.26	26		
27	11	7/24/2018	85871	D&A / 29	AU-435F	B1/TP - 6 (0-4)	29.9	27		
28	12	7/24/2018	85872	D&A / 18	AT-878N	A1/TP - 7 (0-4)	26.09	28		
29	13	7/24/2018	85873	D&A / 6	AS-412T	B1/TP - 6 (0-4)	27.24	29		
30	14	7/24/2018	85874	D&A / 2	AS-356V	A1/TP - 7 (0-4)	28.63	30		
31	15	7/24/2018	85875	D&A / 3	AT-515L	B1/TP - 6 (0-4)	25.6	31		
32	16	7/24/2018	85876	D&A / 7	AS-413T	A1/TP - 7 (0-4)	25.6	32		
33	17	7/24/2018	85877	D&A / 5	AS-676N	B1/TP - 6 (0-4)	27.06	33		
34	18	7/24/2018	85878	D&A / 29	AU-435F	A1/TP - 7 (0-4)	30.27	34		
35	1	7/26/2018	85879	JSL / 30	AU-631H	A1/TP - 7 (0-4)	23.33	35		
36	2	7/26/2018	85880	JSL / 15	AS-476R	A1/TP - 7 (0-4)	22.92	36		
37	3	7/26/2018	85881	JSL / 17	AS-139R	A1/TP - 7 (0-4)	26.66	37		
38	4	7/26/2018	85882	JSL / 11	AT-885D	B1/TP - 6 (0-4)	25.73	38		
39	5	7/26/2018	85883	JSL / 2	AT-884D	B1/TP - 6 (0-4)	25.91	39		

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Outgoing Truck Tracking Log

Total Truck Number	Daily Truck Number	Date	Manifest Number	Truck Company	License Plate	Material & Origin	Tons	Bayshore Soil Management, LLC - Keasbey, NJ Load Number	Clean Earth of Kearney, NJ Load Number	Former NJ Zinc Site - Palmerton, PA Load Number
40	6	7/26/2018	85884	Jencar / 69	AS-480Y	B1/TP - 6 (0-4)	21.49	40		
41	1	8/1/2018	85885	D&A / 16	AT-516L	A1/TP - 1 (0-4)	27.49	41		
42	2	8/1/2018	85886	D&A / 4	AS-966E	A1/TP - 1 (0-4)	29.17	42		
43	3	8/1/2018	85887	D&A / 343	AS-502Y	A1/TP - 1 (0-4)	26.94	43		
44	4	8/1/2018	85888	D&A / 14	AT-693C	A1/TP - 1 (0-4)	32.16	44		
45	5	8/1/2018	85889	D&A / 6	AS-413T	A1/TP - 1 (0-4)	29.82	45		
46	6	8/1/2018	85890	D&A / 3	AT-515L	A1/TP - 1 (0-4)	28.41	46		
47	7	8/1/2018	85891	D&A / 10	AS-461U	B2/TP - 2 (0-4)	28.87	47		
48	8	8/1/2018	85892	D&A / 13	AS-500Y	B2/TP - 2 (0-4)	29.48	48		
49	9	8/1/2018	85893	D&A / 5	AS-676N	B2/TP - 2 (0-4)	27.75	49		
50	10	8/1/2018	85894	D&A / 7	AS-413T	B2/TP - 2 (0-4)	27.61	50		
51	11	8/1/2018	85895	D&A / 6	AS-412T	B2/TP - 3 (0-4)	30.31	51		
52	12	8/1/2018	85896	D&A / 3	AT-515L	B2/TP - 3 (0-4)	29.24	52		
53	13	8/1/2018	85897	D&A / 16	AT-516L	B2/TP - 3 (0-4)	33.73	53		
54	14	8/1/2018	85898	D&A / 14	AT-693C	B2/TP - 3 (0-4)	32.27	54		
55	15	8/1/2018	85899	D&A / 13	AS-500Y	A2/TP - 1 (0-4)	31.39	55		
56	16	8/1/2018	85900	D&A / 7	AS-413T	A2/TP - 1 (0-4)	29.31	56		
57	17	8/1/2018	85901	D&A / 4	AS-966E	A2/TP - 1 (0-4)	28.61	57		
58	18	8/1/2018	85902	D&A / 5	AS-676N	A2/TP - 1 (0-4)	28.16	58		
59	19	8/1/2018	85903	D&A / 343	AS-502Y	B2/TP - 2 (0-4)	28.25	59		
60	20	8/1/2018	85904	Costa Trucking / 3	AS-864B	B2/TP - 2 (0-4)	26.99	60		
61	21	8/1/2018	85905	T - Mak Inc / 4	AS-552B	A2/TP - 1 (0-4)	28.96	61		
62	1	8/2/2018	85906	D&A / 4	AS-966E	A2/TP - 1 (0-4)	29.48	62		
63	2	8/2/2018	85907	D&A / 343	AS-502Y	A2/TP - 1 (0-4)	29.26	63		
64	3	8/2/2018	85908	D&A / 13	AS-500Y	A2/TP - 1 (0-4)	29.84	64		
65	4	8/2/2018	85909	D&A / 5	AS-676N	B2/TP - 2 (0-4)	29.45	65		
66	5	8/2/2018	85910	D&A / 7	AS-418T	B2/TP - 3 (0-4)	28.44	66		
67	6	8/2/2018	85911	D&A / 4	AS-966E	B2/TP - 2 (0-4)	29.45	67		
68	7	8/2/2018	85912	D&A / 343	AS-502Y	B2/TP - 2 (0-4)	27.12	68		
69	8	8/2/2018	85913	D&A / 13	AS-500Y	B2/TP - 2 (0-4)	27.93	69		
70	9	8/2/2018	85914	D&A / 5	AS-676N	B2/TP - 2 (0-4)	27.62	70		
71	10	8/2/2018	85915	D&A / 7	AS-418T	B2/TP - 2 (0-4)	27.11	71		
72	11	8/2/2018	85916	D&A / 4	AS-966E	B2/TP - 2 (0-4)	30.01	72		
73	12	8/2/2018	85917	D&A / 343	AS-502Y	B2/TP - 2 (0-4)	27.79	73		
74	13	8/2/2018	85918	D&A / 13	AS-500Y	B2/TP - 3 (0-4)	30.09	74		
75	14	8/2/2018	85919	D&A / 7	AS-418T	A2/TP - 1 (0-4)	27.81	75		
76	15	8/2/2018	85920	D&A / 5	AS-676N	A2/TP - 1 (0-4)	27.9	76		
77	1	8/3/2018	85921	D&A / 10	AS-461U	A2/TP - 1 (0-4)	25.74	77		

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Total Truck Number	Daily Truck Number	Date	Manifest Number	Truck Company	License Plate	Material & Origin	Tons	Bayshore Soil Management, LLC - Keasbey, NJ Load Number	Clean Earth of Kearney, NJ Load Number	Former NJ Zinc Site - Palmerton, PA Load Number
78	2	8/3/2018	85922	D&A / 17	AT-517L	B2/TP - 2 (0-4)	30.77	78		
79	3	8/3/2018	85923	D&A / 27	AU-873D	B2/TP - 2 (0-4)	26.37	79		
80	4	8/3/2018	85924	D&A / 24	AT-715T	B2/TP - 2 (0-4)	25.7	80		
81	1	8/6/2018	1188718	J&D / 18	AT-405H	B2/TP - 3 (0-4)	25.37		1	
82	2	8/6/2018	1188719	J&D / 5	AT-902H	TP-3 Haz Lead	23.97		2	
83	3	8/6/2018	1188720	J&D / 11	AS-339X	TP-3 Haz Lead	28.13		3	
84	1	8/7/2018	594549	D&A / 2	AS-356V	C1/ TP - 5 (0-4)	25.67			1
85	2	8/7/2018	594550	D&A / 25	AU-872D	C1/ TP - 5 (0-4)	23.32			2
86	3	8/7/2018	594551	D&A / 6	AS-413T	C1/ TP - 5 (0-4)	23.68			3
87	4	8/7/2018	594552	D&A / 20	AT-880N	C1/ TP - 5 (0-4)	24.24			4
88	5	8/7/2018	594553	D&A / 19	AT-879N	C1/ TP - 5 (0-4)	20.34			5
89	6	8/7/2018	594554	D&A / 9	AS-463U	C1/ TP - 5 (0-4)	21.27			6
90	7	8/7/2018	594555	D&A / 4	AS-966E	C1/ TP - 5 (0-4)	25.12			7
91	8	8/7/2018	594556	D&A / 28	AU-995D	C1/ TP - 5 (0-4)	27.67			8
92	9	8/7/2018	594557	D&A / 16	AT-516L	C1/ TP - 5 (0-4)	27.25			9
93	10	8/7/2018	594558	D&A / 13	AS-500Y	C1/ TP - 5 (0-4)	25.49			10
94	11	8/7/2018	594559	D&A / 343	AS-502Y	C1/ TP - 5 (0-4)	23.08			11
95	12	8/7/2018	594560	D&A / 30	AU-739H	C1/ TP - 5 (0-4)	23.57			12
96	13	8/7/2018	594561	D&A / 3	AT-515L	C1/ TP - 5 (0-4)	24.13			13
97	14	8/7/2018	594562	D&A / 10	AS-461U	C1/ TP - 5 (0-4)	23.4			14
98	15	8/7/2018	594563	D&A / 5	AS-676N	C1/ TP - 5 (0-4)	24.66			15
99	16	8/7/2018	594564	D&A / 25	AU-872D	C1/ TP - 5 (0-4)	22.83			16
100	17	8/7/2018	594565	D&A / 27	AU-873D	C1/ TP - 5 (0-4)	22.79			17
101	1	8/8/2018	594566	JGM / 3272	AU-552N	C1/ TP - 5 (0-4)	24.83			18
102	2	8/8/2018	594567	JGM / 3266	AT-237X	C1/ TP - 5 (0-4)	26.24			19
103	3	8/8/2018	594568	JGM / 3271	AU-536E	C1/ TP - 5 (0-4)	26.75			20
104	4	8/8/2018	594569	JGM / 3270	AT-577Z	C1/ TP - 5 (0-4)	26.62			21
105	5	8/8/2018	594570	Jencar / 75	AT-318P	C1/ TP - 5 (0-4)	25.05			22
106	6	8/8/2018	594571	J&L / 30	AU-631H	C1/ TP - 5 (0-4)	21.36			23
107	7	8/8/2018	594572	Jencar / 64	AS-416T	C2/ TP - 4 (0-4)	23.44			24
108	8	8/8/2018	594573	Jencar / 60	AT-240K	C2/ TP - 4 (0-4)	26.56			25
109	9	8/8/2018	594574	JGM / 3272	AU-552N	C2/ TP - 4 (0-4)	24.96			26
110	10	8/8/2018	594575	JGM / 3266	AU-237X	C2/ TP - 4 (0-4)	24.99			27
111	11	8/8/2018	594576	JGM / 3271	AU-536E	C2/ TP - 4 (0-4)	24.85			28
112	12	8/8/2018	594577	Jencar / 550	AT-883D	C2/ TP - 4 (0-4)	25.43			29
113	13	8/8/2018	594578	JGM / 3270	AT-577Z	C2/ TP - 4 (0-4)	25.73			30
114	14	8/8/2018	594579	D&A / 27	AU-873D	C2/ TP - 4 (0-4)	23.56			31
115	15	8/8/2018	594580	D&A / 5	AS-676N	C2/ TP - 4 (0-4)	22.97			32
116	16	8/8/2018	594581	D&A / 7	AS-413T	C2/ TP - 4 (0-4)	22.44			33

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Total Truck Number	Daily Truck Number	Date	Manifest Number	Truck Company	License Plate	Material & Origin	Tons	Bayshore Soil Management, LLC - Keasbey, NJ Load Number	Clean Earth of Kearney, NJ Load Number	Former NJ Zinc Site - Palmerton, PA Load Number
117	17	8/8/2018	594582	Jencar / 63	AS-702T	C2/ TP - 4 (0-4)	24.88			34
118	18	8/8/2018	594583	Jencar / 67	AR-621C	C2/ TP - 4 (0-4)	23.22			35
119	19	8/8/2018	594584	Jencar / 71	AT-501L	C2/ TP - 4 (0-4)	25.05			36
120	1	8/9/2018	594585	D&A / 28	AU-995D	C1/ TP - 5 (0-4)	28.43			37
121	2	8/9/2018	594586	D&A / 33	AU-742H	C1/ TP - 5 (0-4)	24.34			38
122	3	8/9/2018	594587	Jencar / 68	AP-812A	C1/ TP - 5 (0-4)	22.01			39
123	4	8/9/2018	594588	D&A / 7	AS-413T	C1/ TP - 5 (0-4)	22.01			40
124	5	8/9/2018	594589	D&A / 29	AU-435F	C1/ TP - 5 (0-4)	24.13			41
125	6	8/9/2018	594590	Jencar / 64	AS-416T	C1/ TP - 5 (0-4)	25.66			42
126	7	8/9/2018	594591	Jencar / 66	AS-214G	C1/ TP - 5 (0-4)	22.71			43
127	8	8/9/2018	594592	Jencar / 75	AT-818P	C2/ TP - 4 (0-4)	24.43			44
128	9	8/9/2018	594593	Jencar / 74	AT-172H	C2/ TP - 4 (0-4)	23.51			45
129	10	8/9/2018	594594	D&A / 19	AT-879N	C2/ TP - 4 (0-4)	23.55			46
130	11	8/9/2018	594595	D&A / 9	AS-463U	C2/ TP - 4 (0-4)	22.58			47
131	12	8/9/2018	594596	D&A / 5	AS-676N	C2/ TP - 4 (0-4)	23.92			48
132	13	8/9/2018	594597	D&A / 6	AS-412T	C2/ TP - 4 (0-4)	23.92			49
133	14	8/9/2018	594598	D&A / 12	AT-843M	C2/ TP - 4 (0-4)	23.04			50
134	15	8/9/2018	594599	D&A / 33	AT-742H	C2/ TP - 4 (0-4)	23.03			51
135	16	8/9/2018	594600	D&A / 25	AU-872D	C2/ TP - 4 (0-4)	24.31			52
136	17	8/9/2018	594601	D&A / 13	AS-500Y	C2/ TP - 4 (0-4)	23.41			53
137	1	8/10/2018	594602	D&A / 33	AU-742H	C2/ TP - 4 (0-4)	23.56			54

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Total Truck Number	Daily Truck Number	Date	Manifest Number	Truck Company	License Plate	Material & Origin	Tons	Bayshore Soil Management, LLC - Keasbey, NJ Load Number	Clean Earth of Kearney, NJ Load Number	Former NJ Zinc Site - Palmerton, PA Load Number
138	2	8/10/2018	594603	D&A / 9	AS-463U	C2/ TP - 4 (0-4)	23.57			55
139	3	8/10/2018	594604	D&A / 25	AU-872D	C2/ TP - 4 (0-4)	25.06			56
140	4	8/10/2018	594605	D&A / 19	AT-879N	C1/ TP - 5 (0-4)	20.1			57
141	5	8/10/2018	594606	TEV / 7	AT-942T	C1/ TP - 5 (0-4)	21.34			58
142	6	8/10/2018	594607	D&A / 39	AU-522N	C1/ TP - 5 (0-4)	24.27			59
143	7	8/10/2018	594608	D&A / 37	AU-521N	C1/ TP - 5 (0-4)	24.01			60
144	8	8/10/2018	594609	TEV / 2	AR-237E	C1/ TP - 5 (0-4)	21.89			61
145	9	8/10/2018	594610	TEV / 3	AT-941T	C1/ TP - 5 (0-4)	21.09			62
146	10	8/10/2018	594611	D&A / 34	AU-435J	C1/ TP - 5 (0-4)	22.73			63
147	11	8/10/2018	594612	TEV / 4	AR-240E	C1/ TP - 5 (0-4)	22.49			64
148	12	8/10/2018	594613	TEV / 6	AR-492G	C1/ TP - 5 (0-4)	19.89			65
149	13	8/10/2018	594614	D&A / 36	AU-436J	C1/ TP - 5 (0-4)	23.15			66
150	14	8/10/2018	594615	TEV / 10	AN-851C	C2/ TP - 4 (0-4)	25.33			67
151	15	8/10/2018	594616	TEV / 13	AR-491G	C2/ TP - 4 (0-4)	21.36			68
152	16	8/10/2018	594617	TEV / 14	AT-491U	C2/ TP - 4 (0-4)	20.26			69
153	17	8/10/2018	594618	TEV / 9	AM-714Y	C2/ TP - 4 (0-4)	23.26			70
154	18	8/10/2018	594619	TEV / 5	AR-239E	C2/ TP - 4 (0-4)	22.6			71
155	1	8/13/2018	594620	D&A / 31	AU-740H	C1/ TP - 5 (0-4)	26.49			72
156	2	8/13/2018	594621	D&A / 14	AT-693C	C1/ TP - 5 (0-4)	23.27			73
157	1	10/23/2018	85926	D&A / 6	AS-412T	A2/ TP - 1 (4-10)	24.58	81		
158	2	10/23/2018	85925	D&A / 31	AU-740H	A2/ TP - 1 (4-10)	25.2	82		
159	3	10/23/2018	85927	D&A / 17	AT-517L	A2/ TP - 1 (4-10)	24.61	83		
160	4	10/23/2018	85928	D&A / 13	AS-500Y	A2/ TP - 1 (4-10)	26.53	84		
161	5	10/23/2018	85929	D&A / 30	AU-739H	A2/ TP - 1 (4-10)	32.85	85		
162	6	10/23/2018	85930	D&A / 4	AS-966E	A2/ TP - 1 (4-10)	30.63	86		
163	7	10/23/2018	85931	D&A / 25	AU-872D	A2/ TP - 1 (4-10)	29.16	87		
164	8	10/23/2018	85932	D&A / 2	AS-356V	A2/ TP - 1 (4-10)	27.58	88		
165	9	10/23/2018	85933	D&A / 27	AU-873D	A2/ TP - 1 (4-10)	27.42	89		
166	10	10/23/2018	85945	D&A / 28	AU-995D	A2/ TP - 1 (4-10)	31.79	90		
167	11	10/23/2018	85934	D&A / 24	AT-715T	A2/ TP - 1 (4-10)	20.33	91		
168	1	10/29/2018	85935	Mendez / 58	AS-270R	A2/ TP - 1 (4-10)	24.24	92		
169	2	10/29/2018	85936	Mendez / 10	AT-556B	A2/ TP - 1 (4-10)	25.72	93		
170	3	10/29/2018	85937	Mendez / 88	AS-353M	A2/ TP - 1 (4-10)	26.52	94		
171	4	10/29/2018	85938	Mendez / 49	AT-558B	A2/ TP - 1 (4-10)	26.66	95		
172	5	10/29/2018	85939	Mendez / 50	AS-755P	A2/ TP - 1 (4-10)	29.25	96		
173	6	10/29/2018	85940	Mendez / 57	AS-263R	A2/ TP - 1 (4-10)	22.89	97		
174	7	10/29/2018	85941	Mendez / 41	AS-986S	A2/ TP - 1 (4-10)	26.58	98		
175	8	10/29/2018	85942	Mendez / 52	AS-757P	A2/ TP - 1 (4-10)	27.4	99		

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176	1	10/31/2018	85943	D&A / 16	AT-516L	A2/ TP - 1 (4-10)	26.08	100		
177	2	10/31/2018	85944	D&A / 343	AS-502Y	A2/ TP - 1 (4-10)	24.18	101		
178	3	10/31/2018	85946	D&A / 13	AS-500Y	A2/ TP - 1 (4-10)	26.19	102		
179	4	10/31/2018	85947	D&A / 4	AS-966E	A2/ TP - 1 (4-10)	27.39	103		
180	5	10/31/2018	85948	D&A / 17	AT-517L	A2/ TP - 1 (4-10)	29.31	104		
181	6	10/31/2018	85952	D&A / 14	AT-693C	B2/ TP - 2 (4-10)	27.25	105		
182	7	10/31/2018	85950	D&A / 7	AS-413T	A2/ TP - 1 (4-10)	23.35	106		
183	8	10/31/2018	85951	D&A / 31	AU-740H	B2/ TP - 2 (4-10)	23.34	107		
184	9	10/31/2018	85953	D&A / 10	AS-461U	B2/ TP - 2 (4-10)	19.03	108		
185	10	10/31/2018	85949	D&A / 2	AS-356V	B2/ TP - 2 (4-10)	22.28	109		
186	1	11/1/2018	85956	D&A / 16	AT-516L	A2/ TP - 1 (0-12)	30.84	110		
187	2	11/1/2018	85954	D&A / 4	AS-966E	A2/ TP - 1(0-12)	28.81	111		
188	3	11/1/2018	85955	D&A / 13	AS-500Y	A2/ TP - 1(0-12)	28.11	112		
189	4	11/1/2018	85958	D&A / 5	AS-676N	B2/ TP - 2(0-12)	28.65	113		
190	5	11/1/2018	85957	D&A / 10	AS-461U	A2/ TP - 1(0-12)	26.8	114		
191	6	11/1/2018	85959	D&A / 17	AT-517L	B2/ TP - 2(0-12)	29.15	115		
192	7	11/1/2018	85960	D&A / 20	AT-880N	B2/ TP - 2(0-12)	28.34	116		
193	8	11/1/2018	85961	D&A / 16	AT-516L	B2/ TP - 2(0-12)	30.12	117		
194	9	11/1/2018	85962	D&A / 13	AS-500Y	B2/ TP - 2(0-12)	26.54	118		
195	10	11/1/2018	85964	D&A / 5	AS-676N	B2/ TP - 2(0-12)	29	119		
196	11	11/1/2018	85965	D&A / 4	AS-966E	B2/ TP - 2(0-12)	28.28	120		
197	12	11/1/2018	85963	D&A / 10	AS-461U	B2/ TP - 2(0-12)	27.14	121		
198	13	11/1/2018	85966	D&A / 17	AT-517L	B2/ TP - 2(0-12)	29.94	122		
199	14	11/1/2018	85967	D&A / 20	AT-800N	B2/ TP - 2(0-12)	26.93	123		

Attached Table 3
New 470 Project
12 Eckford Street
Brooklyn, New York
Outgoing Truck Tracking Log

Total Truck Number	Daily Truck Number	Date	Manifest Number	Truck Company	License Plate	Material & Origin	Tons	Bayshore Soil Management, LLC - Keasbey, NJ Load Number	Clean Earth of Kearney, NJ Load Number	Former NJ Zinc Site - Palmerton, PA Load Number
200	1	11/2/2018	85970	D&A / 7	AS-413T	B2/ TP - 2(0-12)	23.77	124		
201	2	11/2/2018	85969	D&A / 29	AU-435F	B2/ TP - 2(0-12)	24.88	125		
202	3	11/2/2018	85968	D&A / 5	AS-676N	B2/ TP - 2(0-12)	26.33	126		
203	4	11/2/2018	85972	D&A / 7	AS-413T	A2/ TP - 1(0-12)	24.07	127		
204	5	11/2/2018	85971	D&A / 29	AU-435F	B2/ TP - 2(0-12)	25.67	128		
205	6	11/2/2018	85973	D&A / 5	AS-676N	A2/ TP - 1(0-12)	24.36	129		
206	1	11/7/2018	85976	D&A / 28	AU-995D	A2/ TP - 1(0-12)	34.1	130		
207	2	11/7/2018	85978	D&A / 7	AS-413T	A2/ TP - 1(0-12)	30.5	131		
208	3	11/7/2018	85974	D&A / 19	AT-879N	A2/ TP - 1(0-12)	25.98	132		
209	4	11/7/2018	85975	D&A / 25	AU-872D	A2/ TP - 1(0-12)	29.14	133		
210	5	11/7/2018	85977	D&A / 30	AU-739H	A2/ TP - 1(0-12)	33.74	134		
211	6	11/7/2018	85979	D&A / 20	AT-880N	A2/ TP - 1(0-12)	30.54	135		
212	7	11/7/2018	12521557	J&D / 5	AT-902H	B2/ TP - 3(0-12)	27.06		4	
213	8	11/7/2018	12521555	J&D / 5	AT-902H	B2/ TP - 3(0-12)	21.23		5	
214	9	11/7/2018	12521556	J&D / 4	AT-907H	B2/ TP - 3(0-12)	22.71		6	
215	1	11/8/2018	85981	D&A / 14	AT-693C	B2/ TP - 2(0-12)	31.04	136		
216	2	11/8/2018	85980	D&A / 6	AS-412T	B2/ TP - 2(0-12)	32.39	137		
217	3	11/8/2018	85983	D&A / 28	AU-995D	B2/ TP - 2(0-12)	40.68	138		
218	4	11/8/2018	85982	D&A / 36	AU-436J	B2/ TP - 2(0-12)	33.9	139		
219	5	11/8/2018	85984	D&A / 31	AU-740H	B2/ TP - 2(0-12)	26.63	140		
220	6	11/8/2018	85985	D&A / 34	AU-435J	B2/ TP - 2(0-12)	33.61	141		
221	7	11/8/2018	85987	D&A / 7	AS-413T	B2/ TP - 2(0-12)	30.09	142		
222	8	11/8/2018	85986	D&A / 30	AU-739H	B2/ TP - 2(0-12)	33.48	143		
223	9	11/8/2018	85988	D&A / 20	AT-880N	B2/ TP - 2(0-12)	32.71	144		
224	1	11/9/2018	85994	Nickabella / 51	AT-366D	A2/ TP - 1(0-12)	22.94	145		
225	2	11/9/2018	85995	Nickabella / 47	AS-817T	A2/ TP - 1(0-12)	23.83	146		
226	3	11/9/2018	85989	Nickabella / 52	AS-135U	A2/ TP - 1(0-12)	25.86	147		
227	4	11/9/2018	85990	Nickabella / 61	AT-348F	A2/ TP - 1(0-12)	21.9	148		
228	5	11/9/2018	85993	D&A / 12	AT-843M	A2/ TP - 1(0-12)	32.51	149		
229	6	11/9/2018	85991	Nickabella / 45	AS-851X	A2/ TP - 1(0-12)	21.94	150		
230	7	11/9/2018	85992	D&A / 41	AU-427R	A2/ TP - 1(0-12)	29.52	151		
231	8	11/9/2018	85996	D&A / 10	AS-461U	B2/ TP - 2(0-12)	27.56	152		
232	9	11/9/2018	85997	D&A / 25	AU-872D	B2/ TP - 2(0-12)	27.67	153		
233	10	11/9/2018	85998	Nickabella / 47	AS-817T	B2/ TP - 2(0-12)	27.12	154		
234	11	11/9/2018	85999	Nickabella / 51	AT-366D	B2/ TP - 2(0-12)	26.36	155		
235	12	11/9/2018	86000	Nickabella / 52	AS-135U	B2/ TP - 2(0-12)	26.35	156		
236	13	11/9/2018	86001	D&A / 27	AV-873D	B2/ TP - 2(0-12)	30.61	157		
237	14	11/9/2018	86002	Nickabella / 45	AS-851X	B2/ TP - 2(0-12)	29.64	158		
238	1	11/12/2018	86006	D&A / 5	AS-676N	A2/ TP - 1(0-12)	31.82	159		

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New 470 Project
12 Eckford Street
Brooklyn, New York
Outgoing Truck Tracking Log

Total Truck Number	Daily Truck Number	Date	Manifest Number	Truck Company	License Plate	Material & Origin	Tons	Bayshore Soil Management, LLC - Keasbey, NJ Load Number	Clean Earth of Kearney, NJ Load Number	Former NJ Zinc Site - Palmerton, PA Load Number
239	2	11/12/2018	86008	D&A / 17	AT-517L	A2/ TP - 1(0-12)	32.57	160		
240	3	11/12/2018	86007	D&A / 27	AU-873D	A2/ TP - 1(0-12)	30.47	161		
241	4	11/12/2018	86009	D&A / 7	AS-413T	A2/ TP - 1(0-12)	29.13	162		
242	5	11/12/2018	86010	D&A / 30	AU-739H	A2/ TP - 1(0-12)	32.06	163		
243	6	11/12/2018	86011	D&A / 2	AS-356V	A2/ TP - 1(0-12)	28.5	164		
244	1	11/15/2018	86012	D&A / 33	AU-724H	A2/ TP - 1(0-12)	28.72	165		
245	2	11/15/2018	86013	D&A / 14	AT-693C	A2/ TP - 1(0-12)	33.5	166		
246	3	11/15/2018	86016	D&A / 7	AS-413T	B2/ TP - 2(0-12)	29.09	167		
247	4	11/15/2018	86015	D&A / 30	AU-739H	B2/ TP - 2(0-12)	35.29	168		
248	5	11/15/2018	86014	D&A / 29	AU-435F	B2/ TP - 2(0-12)	34.82	169		
249	6	11/15/2018	86017	D&A / 2	AS-356V	B2/ TP - 2(0-12)	30.4	170		
250	1	11/27/2018	12521558	J&D / 7	AS-337X	B2/TP-3 (4-12) HAZ	22.73		7	
251	2	11/27/2018	12521559	J&D / 23	AT-906H	B2/TP-3 (4-12) HAZ	24.4		8	
252	3	11/27/2018	12521560	J&D / 7	AS-337X	B2/TP-3 (4-12) HAZ	23.14		9	
253	4	11/27/2018	12521561	J&D / 23	AT-906H	B2/TP-3 (4-12) HAZ	22.73		10	
254	1	11/28/2018	86018	D&A / 31	AU-740H	B2/ TP - 2(4-12)	26.63	171		
255	2	11/28/2018	86020	D&A / 29	AU-435F	B2/ TP - 3(4-12)	35.04	172		
256	3	11/28/2018	86021	D&A / 16	AT-516L	B2/ TP - 3(4-12)	34.45	173		
257	4	11/28/2018	86022	D&A / 17	AT-517L	B2/ TP - 3(4-12)	29.87	174		
258	5	11/28/2018	86019	D&A / 42	AU-273U	B2/ TP - 2(4-12)	24.11	175		
259	6	11/28/2018	86023	D&A / 29	AU-435F	B2/ TP - 3(4-12)	34.12	176		
260	7	11/28/2018	86024	D&A / 31	AU-740H	B2/ TP - 3(4-12)	30.98	177		
261	8	11/28/2018	86025	D&A / 16	AT-516L	B2/ TP - 3(4-12)	36.9	178		
262	9	11/28/2018	86026	D&A / 17	AT-517L	B2/ TP - 3(4-12)	30.74	179		
263	10	11/28/2018	86027	D&A / 42	AU-273U	B2/ TP - 3(4-12)	27.58	180		
264	1	11/30/2018	86029	Mendez / 1	AR-903C	B2/ TP - 3(4-12)	24.72	181		
265	2	11/30/2018	86028	Mendez / 24	AP-690W	B2/ TP - 3(4-12)	29.93	182		
266	3	11/30/2018	86030	Mendez / 56	AS-5231B	B2/ TP - 3(4-12)	28.08	183		
267	4	11/30/2018	86031	Mendez / 22	AP-874P	B2/ TP - 3(4-12)	28.96	184		
268	5	11/30/2018	86032	Mendez / 43	AT-557B	B2/ TP - 3(4-12)	26.82	185		
269	6	11/30/2018	86033	Mendez / 88	AS-353M	B2/ TP - 3(4-12)	29.38	186		
270	1	12/10/2018	86059	Mendez / 53	AS-758P	B2 / TP - 2 (8-12)	25.31	187		
271	2	12/10/2018	86060	Mendez / 100	AP - 638R	B2 / TP - 2 (8-12)	28.81	188		
272	3	12/10/2018	86061	Mendez / 01	AR - 903C	B2 / TP - 2 (8-12)	28.04	189		
273	4	12/10/2018	86062	Mendez / 91	AN - 556Y	B2 / TP - 2 (8-12)	26.6	190		
274	5	12/10/2018	86063	Mendez / 223	AM - 320U	B2 / TP - 2 (8-12)	28.54	191		
275	6	12/10/2018	86064	Mendez / 29	AP - 256H	B2 / TP - 2 (8-12)	28.11	192		
276	7	12/10/2018	86065	Mendez / 61	AP - 864P	B2 / TP - 2 (8-12)	28.33	193		

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New 470 Project
12 Eckford Street
Brooklyn, New York
Outgoing Truck Tracking Log

Total Truck Number	Daily Truck Number	Date	Manifest Number	Truck Company	License Plate	Material & Origin	Tons	Bayshore Soil Management, LLC - Keasbey, NJ Load Number	Clean Earth of Kearney, NJ Load Number	Former NJ Zinc Site - Palmerton, PA Load Number
277	8	12/10/2018	86066	Mendez / 45	AS - 531D	B2 / TP - 2 (8-12)	27.65	194		
278	1	12/11/2018	86067	JSL / 15	AS-476R	B2 (8-12) / TP-3 (0-12)	27.08	195		
279	2	12/11/2018	86068	Jencar / 70	AT-968D	B2 (8-12) / TP-3 (0-12)	28.35	196		
280	3	12/11/2018	86069	Jencar / 62	AS-595U	B2 (8-12) / TP-3 (0-12)	28.34	197		
281	4	12/11/2018	86070	Jencar / 67	AR-621C	B2 (8-12) / TP-3 (0-12)	25.59	198		
282	5	12/11/2018	86071	Jencar / 66	AS-241G	C2 / TP-4 (4-12)	23.79	199		
283	6	12/11/2018	86072	Jencar / 63	AS-702T	B2 (8-12) / TP-3 (0-12)	28.57	200		
284	7	12/11/2018	86073	Jencar / 64	AS-416T	B2 (8-12) / TP-3 (0-12)	27.6	201		
285	8	12/12/2018	86074	Jencar /61	AT-296T	C2 / TP-4 (4-12)	25.43	202		
286	9	12/11/2018	91838	Jencar / 59	AT-558Y	B2 (8-12) / TP-3 (0-12)	23.71	203		
287	10	12/11/2018	91840	Jencar / 69	AS-450Y	B2 (8-12) / TP-3 (0-12)	25.16	204		
288	1	12/12/2018	91813	Mendez / 49	AT-558B	B2 (8-12) / TP-3 (0-12)	23.13	205		
289	2	12/12/2018	91814	Mendez / 57	AS-269R	A1 (0-4) / TP-7 (0-4)	25.8	206		
290	3	12/12/2018	91815	Mendez / 22	AP-874P	A1 (0-4) / TP-7 (0-4)	25.57	207		
291	4	12/12/2018	91816	Mendez / 50	AS-755P	A1 (0-4) / TP-7 (0-4)	26.01	208		
292	5	12/12/2018	91817	Mendez / 51	AS-756P	B1 (0-4) / TP-6 (0-4)	24.9	209		
293	6	12/12/2018	91818	Mendez / 53	AS-758P	B2 (8-12) / TP-3 (0-12)	24.98	210		
294	7	12/12/2018	91819	Mendez / 100	AP-638R	B2 (8-12) / TP-3 (0-12)	27.3	211		
295	8	12/12/2018	91820	Mendez / 91	AN-556Y	B2 (8-12) / TP-3 (0-12)	26.62	212		
296	9	12/12/2018	91821	Mendez / 44	AS-530D	C2 (4-12) / TP-4 (4-12)	27.28	213		
297	10	12/12/2018	91822	Mendez / 45	AS-531D	C2 (4-12) / TP-4 (4-12)	26.66	214		
298	11	12/12/2018	91823	Mendez / 55	AS-520B	C2 (4-12) / TP-4 (4-12)	26.99	215		
299	12	12/12/2018	91824	Mendez / 88	AS-353M	C2 (4-12) / TP-4 (4-12)	29.55	216		
300	13	12/12/2018	91825	Mendez / 10	AT556B	C2 (4-12) / TP-4 (4-12)	25.99	217		
301	14	12/12/2018	91826	Mendez / 89	AS354M	C2 (4-12) / TP-4 (4-12)	26.3	218		
302	15	12/12/2018	91827	Mendez / 41	AS-986S	C2 (4-12) / TP-4 (4-12)	25.29	219		
303	1	12/14/2018	91828	D&A / 28	AU-995D	B2 (8-12) / TP-3 (0-12)	36.62	220		
304	2	12/14/2018	91829	Nickabella's / 61	AT-348F	B2 (8-12) / TP-3 (0-12)	22.93	221		
305	3	12/14/2018	91830	Nickabella's / 48	AU-913U	B2 (8-12) / TP-3 (0-12)	22.27	222		
306	4	12/14/2018	91831	Nickabella's / 51	AT-366D	C2 / TP-4 (4-12)	22.73	223		
307	5	12/14/2018	91832	D&A / 14	AT-693C	C2 / TP-4 (4-12)	28.13	224		
308	6	12/14/2018	91833	D&A / 20	AT-886N	C2 / TP-4 (4-12)	31.43	225		
309	7	12/14/2018	91834	Nickabella's / 59	AT-347F	C2 / TP-4 (4-12)	24.1	226		
310	8	12/14/2018	91835	D&A / 5	AS-676N	C2 / TP-4 (4-12)	26.33	227		
311	9	12/14/2018	91836	Nickabella's / 46	AS-254C	C2 / TP-4 (4-12)	23.91	228		
312	10	12/14/2018	91837	Nickabella's / 45	AS-851X	C2 / TP-4 (4-12)	23.08	229		
313	1	12/26/2018	86076	Jencar / 550	AT - 883D	C2 / TP-2 (4-12')	32.28	230		
314	2	12/26/2018	86077	Jencar / 58	AT - 731Y	C2 / TP-2 (4-12')	33.73	231		
315	3	12/26/2018	86078	Jencar / 55	AU - 853R	C2 / TP-2 (4-12')	32.44	232		

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New 470 Project
12 Eckford Street
Brooklyn, New York
Outgoing Truck Tracking Log

Total Truck Number	Daily Truck Number	Date	Manifest Number	Truck Company	License Plate	Material & Origin	Tons	Bayshore Soil Management, LLC - Keasbey, NJ Load Number	Clean Earth of Kearney, NJ Load Number	Former NJ Zinc Site - Palmerton, PA Load Number
316	4	12/26/2018	86079	Jencar / 75	AT - 318P	C2 / TP-2 (4-12')	31.54	233		
317	5	12/26/2018	86080	Jencar / 70	AT - 968D	C2 / TP-2 (4-12')	30.03	234		
318	6	12/26/2018	86081	Jencar / 72	AP - 573W	C2 / TP-2 (4-12')	28.27	235		
319	7	12/26/2018	86082	PSM / 2	AT - 744U	C2 / TP-2 (4-12')	27.61	236		
320	8	12/26/2018	86083	Jencar / 60	AT - 240X	C2 / TP-2 (4-12')	32.79	237		
321	9	12/26/2018	86084	Jencar / 60	AT - 240X	C2 / TP-2 (4-12')	31.76	238		
322	10	12/26/2018	86085	PSM / 2	AT - 744U	C2 / TP-2 (4-12')	30.31	239		
323	11	12/26/2018	86086	Jencar / 550	AT - 883D	C2 / TP-2 (4-12')	32.11	240		
324	12	12/26/2018	86087	Jencar / 58	AT - 731Y	C2 / TP-2 (4-12')	31.99	241		
325	13	12/26/2018	86088	Jencar / 55	AU - 853R	C2 / TP-2 (4-12')	31.73	242		
326	14	12/26/2018	86089	Jencar / 75	AT - 318P	C2 / TP-2 (4-12')	29.08	243		
327	15	12/26/2018	86090	Jencar / 72	AP - 573W	C2 / TP-2 (4-12')	26.92	244		
328	1	1/15/2019	86091	Mendez / 53	AS-758P	B2 (6-12) / TP-3 (0-12)	24.17	245		
329	2	1/15/2019	86092	Mendez / 89	AS-354U	B2 (6-12) / TP-3 (0-12)	27.04	246		
330	3	1/15/2019	86093	Mendez / 61	AP-864D	B2 (6-12) / TP-3 (0-12)	27.72	247		
331	4	1/15/2019	86094	Mendez / 45	AS-531D	B2 (6-12) / TP-3 (0-12)	27.11	248		
332	5	1/15/2019	86095	Mendez / 56	AS-521B	B2 (6-12) / TP-3 (0-12)	26.00	249		
333	6	1/15/2019	86096	Mendez / 10	AT-556B	B2 (6-12) / TP-3 (0-12)	25.85	250		
334	7	1/15/2019	86097	Mendez / 57	AS-269R	B2 (6-12) / TP-3 (0-12)	27.73	251		
335	8	1/15/2019	86098	Mendez / 43	AT-557B	B2 (6-12) / TP-3 (0-12)	27.60	252		
336	9	1/15/2019	86099	Mendez / 52	AS-757D	B2 (6-12) / TP-3 (0-12)	30.83	253		
337	10	1/15/2019	86100	Mendez / 91	AN-556Y	B2 (6-12) / TP-3 (0-12)	29.66	254		
338	1	2/6/2019	86099	D&A / 2	AS-356V	B2 (6-12) / TP-3 (0-12)	31.93	255		
339	2	2/6/2019	86100	D&A / 18	AT-878N	B2 (6-12) / TP-3 (0-12)	31.74	256		

Summary				
	Truck Loads	Tonnages	Non-Haz Total (ton)	Haz Total (ton)
Bayshore	256	8,979.40	10,717.55	241.47
CENJ	10	241.47		
Palmeron	73	1,738.15		
TOTAL	**339**	**10,959.02**		

Attached Table 4
New 470 Project
12 Eckford Street
Brooklyn, New York
Tank Endpoint Samples - VOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Compound/Unit	NYSDEC UUSCO	NYSDEC RRSCO	UST-1 B 20180628 11.49 460-159423-8 6/28/2018 mg/kg	UST-1 E 20180628 12.48 460-159423-2 6/28/2018 mg/kg	UST-1 N 20180628 12.42 460-159423-1 6/28/2018 mg/kg	UST-1 S 20180628 12.12 460-159423-3 6/28/2018 mg/kg
1,2,4-Trimethylbenzene	**3.6**	**52**	0.0013 U	0.00038 J	0.0013 U	0.0012 U
1,3,5-Trimethylbenzene (Mesitylene)	**8.4**	**52**	0.0013 U	0.00035 J	0.0013 U	0.0012 U
Benzene	**0.06**	**4.8**	0.0013 U	0.0018	0.0013 U	0.0012 U
Cymene	**NS**	**NS**	0.0013 U	0.0015 U	0.0013 U	0.0012 U
Ethylbenzene	**1**	**41**	0.0013 U	0.00094 J	0.0013 U	0.0012 U
Isopropylbenzene (Cumene)	**NS**	**NS**	0.0013 U	0.0015 U	0.0013 U	0.0012 U
N-Butylbenzene	**12**	**100**	0.0013 U	0.0015 U	0.0013 U	0.0012 U
N-Propylbenzene	**3.9**	**100**	0.0013 U	0.0015 U	0.0013 U	0.0012 U
Sec-Butylbenzene	**11**	**100**	0.0013 U	0.0015 U	0.0013 U	0.0012 U
T-Butylbenzene	**5.9**	**100**	0.0013 U	0.0015 U	0.0013 U	0.0012 U
Tert-Butyl Methyl Ether	**0.93**	**100**	0.0013 U	0.0015 U	0.0013 U	0.0012 U
Toluene	**0.7**	**100**	0.0013 U	0.009	0.0013 U	0.0012 U
Xylenes, Total	**0.26**	**100**	0.0025 U	0.012	0.0027 U	0.0025 U

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New 470 Project
12 Eckford Street
Brooklyn, New York
Tank Endpoint Samples - VOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Compound/Unit	NYSDEC UUSCO	NYSDEC RRSCO	UST-1 W 20180628 12.86 460-159423-4 6/28/2018 mg/kg	UST-1 X 20180628 12.86 460-159423-5 6/28/2018 mg/kg	FB20180628 N/A 460-159423-7 6/28/2018 ug/L	TB20180628 N/A 460-159423-6 6/28/2018 ug/L
1,2,4-Trimethylbenzene	3.6	52	0.0012 UJ	0.0013 UJ	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0012 UJ	0.0013 UJ	1 U	1 U
Benzene	0.06	4.8	0.0012 UJ	0.0013 UJ	1 U	1 U
Cymene	NS	NS	0.0012 UJ	0.0013 UJ	1 U	1 U
Ethylbenzene	1	41	0.0012 UJ	0.0013 UJ	1 U	1 U
Isopropylbenzene (Cumene)	NS	NS	0.0012 UJ	0.0013 UJ	1 U	1 U
N-Butylbenzene	12	100	0.0012 UJ	0.0013 UJ	1 U	1 U
N-Propylbenzene	3.9	100	0.0012 U	0.0013 U	1 U	1 U
Sec-Butylbenzene	11	100	0.0012 UJ	0.0013 UJ	1 U	1 U
T-Butylbenzene	5.9	100	0.0012 UJ	0.0013 UJ	1 U	1 U
Tert-Butyl Methyl Ether	0.93	100	0.0012 U	0.0013 U	1 U	1 U
Toluene	0.7	100	0.0012 U	0.0013 U	1 U	1 U
Xylenes, Total	0.26	100	0.0024 UJ	0.0025 UJ	2 U	2 U

Attached Table 5
New 470 Project
12 Eckford Street
Brooklyn, New York
Tank Endpoint Samples - SVOCs

AKRF Sample ID			UST-1 B 20180628	UST-1 E 20180628	UST-1 N 20180628	UST-1 S 20180628
Sample Elevation (NAVD 88			11.49	12.48	12.42	12.12
Laboratory Sample ID	NYSDEC	NYSDEC	460-159423-8	460-159423-2	460-159423-1	460-159423-3
Date Sampled	UUSCO	RRSCO	6/28/2018	6/28/2018	6/28/2018	6/28/2018
Unit			mg/kg	mg/kg	mg/kg	mg/kg
Compound/Dilution Rate			1	1	1	2
Acenaphthene	**20**	**100**	0.14 J	0.18 J	0.11 J	0.94
Acenaphthylene	**100**	**100**	0.069 J	0.068 J	0.058 J	0.1 J
Anthracene	**100**	**100**	0.37 J	0.5	0.31 J	1.8
Benzo(a)Anthracene	**1**	**1**	**1.2**	**1.3**	1	**3**
Benzo(a)Pyrene	**1**	**1**	**1.3**	**1.1**	0.99	**2.4**
Benzo(b)Fluoranthene	**1**	**1**	**1.7**	**1.6**	**1.4**	**3.1**
Benzo(g,h,i)Perylene	**100**	**100**	0.49	0.55	0.46	1.3
Benzo(k)Fluoranthene	**0.8**	**3.9**	0.66	0.52	0.44	**1.1**
Chrysene	**1**	**3.9**	**1.3**	**1.2**	**1.1**	**2.8**
Dibenz(a,h)Anthracene	**0.33**	**0.33**	0.16	0.18	0.15	0.32
Fluoranthene	**100**	**100**	2.3	2.5	1.8	7.2
Fluorene	**30**	**100**	0.16 J	0.22 J	0.14 J	0.88
Indeno(1,2,3-c,d)Pyrene	**0.5**	**0.5**	**0.61 J**	**0.64 J**	**0.53 J**	**1.6**
Naphthalene	**12**	**100**	0.2 J	0.22 J	0.2 J	0.34 J
Phenanthrene	**100**	**100**	1.7	2.3	1.4	7.9
Pyrene	**100**	**100**	2.6	2.7	2.1	6.5

Attached Table 5
New 470 Project
12 Eckford Street
Brooklyn, New York
Tank Endpoint Samples - SVOCs

AKRF Sample ID			UST-1 W 20180628	UST-1 X 20180628	FB20180628
Sample Elevation (NAVD 88			12.86	12.86	N/A
Laboratory Sample ID	NYSDEC	NYSDEC	460-159423-4	460-159423-5	460-159423-7
Date Sampled	UUSCO	RRSCO	6/28/2018	6/28/2018	6/28/2018
Unit			mg/kg	mg/kg	ug/L
Compound/Dilution Rate			1	1	1
Acenaphthene	20	100	0.29 JL	0.17 JL	10 U
Acenaphthylene	100	100	0.087 J	0.1 J	10 U
Anthracene	100	100	0.72	0.59	10 U
Benzo(a)Anthracene	1	1	**1.8 JL**	**2.4 JL**	1 U
Benzo(a)Pyrene	1	1	**1.7**	**2.4**	1 U
Benzo(b)Fluoranthene	1	1	**2.1**	**3.3**	2 U
Benzo(g,h,i)Perylene	100	100	0.88	0.89	10 U
Benzo(k)Fluoranthene	0.8	3.9	**1**	**1.2**	1 U
Chrysene	1	3.9	**2 JL**	**2.4 JL**	2 U
Dibenz(a,h)Anthracene	0.33	0.33	0.28	0.31	1 U
Fluoranthene	100	100	3.1 JL	4.2 JL	10 U
Fluorene	30	100	0.35 J	0.23 J	10 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	**1 J**	**1.1 J**	2 U
Naphthalene	12	100	0.23 JL	0.19 JL	10 U
Phenanthrene	100	100	2.8 JL	2.7 JL	10 U
Pyrene	100	100	3.9	4.5	10 U

Attached Tables 4 and 5
New 470 Project
12 Eckford Street
Brooklyn, New York
Notes

Qualifier	Description
J	The reported concentration is a value above the method detection limit, but is estimated and may be imprecise.
L	The reported concentration is a value above the method detection limit, but is reported low.
K	The reported concentration is proportional to dilution factor and may be exaggerated.
R	The reported concentration is unusable; the analyte may or may not be present in the sample.
U	The concentration was not detected above the rmethod detection limit; the compound is not present in the sample.

Blind Duplicate Sample
UST-1 X 20180628 is a blind duplicate of sample UST-1 W 20180628.

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.
Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are presented in gray shading.

mg/kg - milligrams per kilogram = parts per million (ppm)
ug/L - micrograms per Liter = parts per billion (ppb)

Standards

Part 375 Soil Cleanup Objectives	:	Soil Cleanup Objectives listed in NYSDEC (New York State Department of Environmental Conservation) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of Part 375 Unrestricted Soil Cleanup Objectives (UUSCOs) are highlighted in bold font.
Exceedances of Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs) are highlighted in gray.
Elevations are presented in North American Vertical Datum (NAVD) 88.

Attached Table 6
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - VOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-01_20190225 2.72 460-176028-1 2/25/2019 7:50:00 AM mg/kg	EP-02_20190225 2.19 460-176028-2 2/25/2019 8:00:00 AM mg/kg	EP-X01_20190225 2.19 460-176028-8 2/25/2019 9:30:00 AM mg/kg	EP-03_20190225 2.53 460-176028-3 2/25/2019 8:20:00 AM mg/kg
1,1,1-Trichloroethane	0.68	100	0.0011 U	0.0011 U	0.001 U	0.0011 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
1,1,2-Trichloroethane	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
1,1-Dichloroethane	0.27	26	0.0011 U	0.0011 U	0.001 U	0.0011 U
1,1-Dichloroethene	0.33	100	0.0011 U	0.0011 U	0.001 U	0.0011 U
1,2,3-Trichlorobenzene	NS	NS	0.0011 U	0.0011 UJ	0.001 UJ	0.0011 U
1,2,4-Trichlorobenzene	NS	NS	0.0011 U	0.0011 UJ	0.001 UJ	0.0011 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0011 U	0.0011 UJ	0.001 UJ	0.0011 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
1,2-Dichlorobenzene	1.1	100	0.0011 U	0.0011 UJ	0.001 UJ	0.0011 U
1,2-Dichloroethane	0.02	3.1	0.0011 U	0.0011 U	0.001 U	0.0011 U
1,2-Dichloropropane	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
1,3-Dichlorobenzene	2.4	49	0.0011 U	0.0011 UJ	0.001 UJ	0.0011 U
1,4-Dichlorobenzene	1.8	13	0.0011 U	0.0011 UJ	0.001 UJ	0.0011 U
2-Hexanone	NS	NS	0.0054 U	0.0053 U	0.0051 U	0.0054 U
Acetone	0.05	100	0.0054 U	0.0053 U	0.0051 U	0.0054 U
Benzene	0.06	4.8	0.0011 U	0.0011 U	0.001 U	0.0011 U
Bromochloromethane	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
Bromodichloromethane	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
Bromoform	NS	NS	0.0011 UJ	0.0011 UJ	0.001 U	0.0011 UJ
Bromomethane	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
Carbon Disulfide	NS	NS	0.0011 U	0.0011 UJ	0.001 UJ	0.0011 U
Carbon Tetrachloride	0.76	2.4	0.0011 U	0.0011 U	0.001 U	0.0011 U
Chlorobenzene	1.1	100	0.0011 U	0.0011 U	0.001 U	0.0011 U
Chloroethane	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
Chloroform	0.37	49	0.0011 U	0.0011 U	0.001 U	0.0011 U
Chloromethane	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
Cis-1,2-Dichloroethylene	0.25	100	0.0011 U	0.0011 U	0.001 U	0.0011 U
Cis-1,3-Dichloropropene	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
Cyclohexane	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
Dibromochloromethane	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
Dichlorodifluoromethane	NS	NS	0.0011 UJ	0.0011 UJ	0.001 UJ	0.0011 UJ
Ethylbenzene	1	41	0.0011 U	0.0011 U	0.001 U	0.0011 U
Isopropylbenzene (Cumene)	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
M,P-Xylenes	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
Methyl Acetate	NS	NS	0.0054 U	0.0053 U	0.0051 U	0.0054 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0054 U	0.0053 U	0.0051 U	0.0054 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0054 U	0.0053 U	0.0051 U	0.0054 U
Methylcyclohexane	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
Methylene Chloride	0.05	100	0.0011 U	0.0011 U	0.00054 J	0.00021 J
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
Styrene	NS	NS	0.0011 U	0.0011 UJ	0.001 UJ	0.0011 U
Tert-Butyl Methyl Ether	0.93	100	0.0011 U	0.0011 U	0.001 U	0.0011 U
Tetrachloroethylene (PCE)	1.3	19	0.0011 U	0.0011 U	0.001 U	0.0011 U
Toluene	0.7	100	0.0011 U	0.0011 U	0.001 U	0.0011 U
Trans-1,2-Dichloroethene	0.19	100	0.0011 U	0.0011 U	0.001 U	0.0011 U
Trans-1,3-Dichloropropene	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
Trichloroethylene (TCE)	0.47	21	0.0011 U	0.0011 U	0.001 U	0.0011 U
Trichlorofluoromethane	NS	NS	0.0011 U	0.0011 U	0.001 U	0.0011 U
Vinyl Chloride	0.02	0.9	0.0011 U	0.0011 U	0.001 U	0.0011 U

Attached Table 6
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - VOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-04_20190225 2.71 460-176028-4 2/25/2019 8:30:00 AM mg/kg	EP-05_20190225 2.59 460-176028-5 2/25/2019 9:00:00 AM mg/kg	EP-06_20190225 2.66 460-176028-6 2/25/2019 8:45:00 AM mg/kg	EP-07_20190225 2.35 460-176028-7 2/25/2019 9:05:00 AM mg/kg
1,1,1-Trichloroethane	0.68	100	0.0011 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	0.27	26	0.0011 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.33	100	0.0011 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	1.1	100	0.0011 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	0.02	3.1	0.0011 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	2.4	49	0.0011 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	1.8	13	0.0011 U	0.001 U	0.001 U	0.001 U
2-Hexanone	NS	NS	0.0055 U	0.0051 U	0.0052 U	0.0052 U
Acetone	0.05	100	0.0073 U	0.0051 U	0.0052 U	0.0052 U
Benzene	0.06	4.8	0.0011 U	0.001 U	0.001 U	0.001 U
Bromochloromethane	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
Bromoform	NS	NS	0.0011 UJ	0.001 UJ	0.001 UJ	0.001 U
Bromomethane	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
Carbon Disulfide	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 UJ
Carbon Tetrachloride	0.76	2.4	0.0011 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	1.1	100	0.0011 U	0.001 U	0.001 U	0.001 U
Chloroethane	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
Chloroform	0.37	49	0.0011 U	0.001 U	0.001 U	0.001 U
Chloromethane	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
Cis-1,2-Dichloroethylene	0.25	100	0.0011 U	0.001 U	0.001 U	0.001 U
Cis-1,3-Dichloropropene	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
Cyclohexane	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane	NS	NS	0.0011 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Ethylbenzene	1	41	0.0011 U	0.001 U	0.001 U	0.001 U
Isopropylbenzene (Cumene)	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
M,P-Xylenes	NS	NS	0.00039 J	0.001 U	0.001 U	0.001 U
Methyl Acetate	NS	NS	0.0055 U	0.0051 U	0.0052 U	0.0052 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0023 J	0.0051 U	0.0052 U	0.0052 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0055 U	0.0051 U	0.0052 U	0.0052 U
Methylcyclohexane	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
Methylene Chloride	0.05	100	0.0011 U	0.00031 J	0.00025 J	0.001 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.00019 J	0.001 U	0.001 U	0.001 U
Styrene	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
Tert-Butyl Methyl Ether	0.93	100	0.0011 U	0.001 U	0.001 U	0.001 U
Tetrachloroethylene (PCE)	1.3	19	0.0011 U	0.001 U	0.001 U	0.001 U
Toluene	0.7	100	0.0011 U	0.001 U	0.001 U	0.001 U
Trans-1,2-Dichloroethene	0.19	100	0.0011 U	0.001 U	0.001 U	0.001 U
Trans-1,3-Dichloropropene	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
Trichloroethylene (TCE)	0.47	21	0.0011 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane	NS	NS	0.0011 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.02	0.9	0.0011 U	0.001 U	0.001 U	0.001 U

Attached Table 6
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - VOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-08_20190403 12.56 460-178736-4 4/3/2019 8:00:00 AM mg/kg	EP-X02_20190403 12.56 460-178736-1 4/3/2019 11:00:00 AM mg/kg	EP-09_20190403 12.87 460-178736-5 4/3/2019 8:35:00 AM mg/kg	EP-10_20190403 11.91 460-178736-6 4/3/2019 8:45:00 AM mg/kg
1,1,1-Trichloroethane	0.68	100	0.00091 J	0.0011	0.011	0.0013 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0011 U	0.0011 U	0.0012 U	0.0013 U
1,1,2-Trichloroethane	NS	NS	0.0011 U	0.0011 U	0.0012 U	0.0013 U
1,1-Dichloroethane	0.27	26	0.001 J	0.0015	0.0044	0.0013 U
1,1-Dichloroethene	0.33	100	0.0011 U	0.0011 U	0.0012 U	0.0013 U
1,2,3-Trichlorobenzene	NS	NS	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
1,2,4-Trichlorobenzene	NS	NS	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0011 U	0.0011 U	0.0012 U	0.0013 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
1,2-Dichlorobenzene	1.1	100	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
1,2-Dichloroethane	0.02	3.1	0.0011 U	0.0011 U	0.0012 U	0.0013 U
1,2-Dichloropropane	NS	NS	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
1,3-Dichlorobenzene	2.4	49	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
1,4-Dichlorobenzene	1.8	13	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
2-Hexanone	NS	NS	0.0057 U	0.0056 U	0.0059 U	0.0066 U
Acetone	0.05	100	0.0048 J	0.0054 J	0.0059 U	0.0066 U
Benzene	0.06	4.8	0.0011 U	0.0011 U	0.0012 U	0.0013 U
Bromochloromethane	NS	NS	0.0011 U	0.0011 U	0.0012 U	0.0013 U
Bromodichloromethane	NS	NS	0.0011 U	0.0011 U	0.0012 U	0.0013 U
Bromoform	NS	NS	0.0011 U	0.0011 U	0.0012 U	0.0013 U
Bromomethane	NS	NS	0.0011 U	0.0011 U	0.0012 U	0.0013 U
Carbon Disulfide	NS	NS	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
Carbon Tetrachloride	0.76	2.4	0.0011 U	0.0011 U	0.0012 U	0.0013 U
Chlorobenzene	1.1	100	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
Chloroethane	NS	NS	0.0011 U	0.0011 U	0.0012 U	0.0013 U
Chloroform	0.37	49	0.0011 U	0.0011 U	0.0012 U	0.0013 U
Chloromethane	NS	NS	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
Cis-1,2-Dichloroethylene	0.25	100	0.00044 J	0.00078 J	0.0023	0.0013 U
Cis-1,3-Dichloropropene	NS	NS	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
Cyclohexane	NS	NS	0.0011 U	0.0011 U	0.0012 U	0.0013 U
Dibromochloromethane	NS	NS	0.0011 U	0.0011 U	0.0012 U	0.0013 U
Dichlorodifluoromethane	NS	NS	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
Ethylbenzene	1	41	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
Isopropylbenzene (Cumene)	NS	NS	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
M,P-Xylenes	NS	NS	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
Methyl Acetate	NS	NS	0.0057 U	0.0056 U	0.0059 U	0.0066 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0057 U	0.0056 U	0.0059 U	0.0066 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0057 U	0.0056 U	0.0059 U	0.0066 U
Methylcyclohexane	NS	NS	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
Methylene Chloride	0.05	100	0.0011 U	0.0011 U	0.0012 U	0.0013 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0011 UJ	0.0011 UJ	0.00017 J	0.0013 U
Styrene	NS	NS	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
Tert-Butyl Methyl Ether	0.93	100	0.0011 U	0.0011 U	0.0012 U	0.0013 U
Tetrachloroethylene (PCE)	1.3	19	0.0049	0.007	0.007	0.0013 U
Toluene	0.7	100	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
Trans-1,2-Dichloroethene	0.19	100	0.0011 U	0.0011 U	0.00031 J	0.0013 U
Trans-1,3-Dichloropropene	NS	NS	0.0011 UJ	0.0011 UJ	0.0012 U	0.0013 U
Trichloroethylene (TCE)	0.47	21	0.0015	0.0023	0.0027	0.0013 U
Trichlorofluoromethane	NS	NS	0.0011 U	0.0011 U	0.0012 U	0.0013 U
Vinyl Chloride	0.02	0.9	0.0011 U	0.0011 U	0.0012 U	0.0013 U

Attached Table 6
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - VOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-11_20190403 13.05 460-178736-7 4/3/2019 9:15:00 AM mg/kg	EP-12_20190403 13.37 460-178736-8 4/3/2019 9:45:00 AM mg/kg	EP-13_20190403 12.35 460-178736-9 4/3/2019 10:00:00 AM mg/kg	EP-14_20190403 12.82 460-178736-10 4/3/2019 10:10:00 AM mg/kg
1,1,1-Trichloroethane	0.68	100	4.7	0.00039 J	0.0019 U	0.00072 J
1,1,2,2-Tetrachloroethane	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
1,1,2-Trichloroethane	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
1,1-Dichloroethane	0.27	26	1.2	0.0011 U	0.0019 U	0.0014 U
1,1-Dichloroethene	0.33	100	0.064 J	0.0011 U	0.0019 U	0.0014 U
1,2,3-Trichlorobenzene	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
1,2,4-Trichlorobenzene	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
1,2-Dichlorobenzene	1.1	100	0.13 U	0.0011 U	0.0019 U	0.0014 U
1,2-Dichloroethane	0.02	3.1	0.13 U	0.0011 U	0.0019 U	0.0014 U
1,2-Dichloropropane	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
1,3-Dichlorobenzene	2.4	49	0.13 U	0.0011 U	0.0019 U	0.0014 U
1,4-Dichlorobenzene	1.8	13	0.13 U	0.0011 U	0.0019 U	0.0014 U
2-Hexanone	NS	NS	0.63 U	0.0057 U	0.0095 U	0.007 U
Acetone	0.05	100	0.63 U	0.0057 U	0.0095 U	0.0066 J
Benzene	0.06	4.8	0.056 J	0.0011 U	0.0019 U	0.0014 U
Bromochloromethane	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
Bromodichloromethane	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
Bromoform	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
Bromomethane	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
Carbon Disulfide	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
Carbon Tetrachloride	0.76	2.4	0.13 U	0.0011 U	0.0019 U	0.0014 U
Chlorobenzene	1.1	100	0.13 U	0.0011 U	0.0019 U	0.0014 U
Chloroethane	NS	NS	0.07 J	0.0011 U	0.0019 U	0.0014 U
Chloroform	0.37	49	0.13 U	0.0011 U	0.0019 U	0.0014 U
Chloromethane	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
Cis-1,2-Dichloroethylene	0.25	100	0.12 J	0.0011 U	0.0019 U	0.0014 U
Cis-1,3-Dichloropropene	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
Cyclohexane	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
Dibromochloromethane	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
Dichlorodifluoromethane	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
Ethylbenzene	1	41	0.13 U	0.0011 U	0.0019 U	0.0014 U
Isopropylbenzene (Cumene)	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
M,P-Xylenes	NS	NS	0.04 J	0.0011 U	0.0019 U	0.0014 U
Methyl Acetate	NS	NS	0.36 J	0.0057 U	0.0095 U	0.007 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.63 U	0.0057 U	0.0095 U	0.007 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.63 U	0.0057 U	0.0095 U	0.007 U
Methylcyclohexane	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
Methylene Chloride	0.05	100	0.13 U	0.0011 U	0.0019 U	0.0014 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
Styrene	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
Tert-Butyl Methyl Ether	0.93	100	0.13 U	0.0011 U	0.0019 U	0.0014 U
Tetrachloroethylene (PCE)	1.3	19	1.1	0.00042 J	0.00053 J	0.00049 J
Toluene	0.7	100	0.054 J	0.0011 U	0.0019 U	0.0014 U
Trans-1,2-Dichloroethene	0.19	100	0.033 J	0.0011 U	0.0019 U	0.0014 U
Trans-1,3-Dichloropropene	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
Trichloroethylene (TCE)	0.47	21	0.39	0.0011 U	0.0019 U	0.0014 U
Trichlorofluoromethane	NS	NS	0.13 U	0.0011 U	0.0019 U	0.0014 U
Vinyl Chloride	0.02	0.9	0.13 U	0.0011 U	0.0019 U	0.0014 U

Attached Table 6
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - VOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-15_20190403 13.46 460-178736-11 4/3/2019 10:30:00 AM mg/kg	EP-16_20190403 13.36 460-178736-12 4/3/2019 1:00:00 PM mg/kg	EP-17_20190403 12.37 460-178736-13 4/3/2019 1:15:00 PM mg/kg	EP-18_20190403 14.20 460-178736-14 4/3/2019 1:45:00 PM mg/kg
1,1,1-Trichloroethane	0.68	100	0.0013 U	0.0011 U	0.0007 J	0.0011 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
1,1,2-Trichloroethane	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
1,1-Dichloroethane	0.27	26	0.0013 U	0.0011 U	0.0012 U	0.0011 U
1,1-Dichloroethene	0.33	100	0.0013 U	0.0011 U	0.0012 U	0.0011 U
1,2,3-Trichlorobenzene	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
1,2,4-Trichlorobenzene	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
1,2-Dichlorobenzene	1.1	100	0.0013 U	0.0011 U	0.0012 U	0.0011 U
1,2-Dichloroethane	0.02	3.1	0.0013 U	0.0011 U	0.0012 U	0.0011 U
1,2-Dichloropropane	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
1,3-Dichlorobenzene	2.4	49	0.0013 U	0.0011 U	0.0012 U	0.0011 U
1,4-Dichlorobenzene	1.8	13	0.0013 U	0.0011 U	0.0012 U	0.0011 U
2-Hexanone	NS	NS	0.0066 U	0.0056 U	0.0062 U	0.0056 U
Acetone	0.05	100	0.0066 U	0.0056 U	0.0062 U	0.0056 U
Benzene	0.06	4.8	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Bromochloromethane	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Bromodichloromethane	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Bromoform	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Bromomethane	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Carbon Disulfide	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Carbon Tetrachloride	0.76	2.4	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Chlorobenzene	1.1	100	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Chloroethane	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Chloroform	0.37	49	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Chloromethane	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Cis-1,2-Dichloroethylene	0.25	100	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Cis-1,3-Dichloropropene	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Cyclohexane	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Dibromochloromethane	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Dichlorodifluoromethane	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Ethylbenzene	1	41	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Isopropylbenzene (Cumene)	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
M,P-Xylenes	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Methyl Acetate	NS	NS	0.0066 U	0.0056 U	0.0062 U	0.0056 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0066 U	0.0056 U	0.0062 U	0.0056 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0066 U	0.0056 U	0.0062 U	0.0056 U
Methylcyclohexane	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Methylene Chloride	0.05	100	0.0013 U	0.0011 U	0.0012 U	0.0011 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Styrene	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Tert-Butyl Methyl Ether	0.93	100	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Tetrachloroethylene (PCE)	1.3	19	0.0013	0.00021 J	0.0002 J	0.00023 J
Toluene	0.7	100	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Trans-1,2-Dichloroethene	0.19	100	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Trans-1,3-Dichloropropene	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Trichloroethylene (TCE)	0.47	21	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Trichlorofluoromethane	NS	NS	0.0013 U	0.0011 U	0.0012 U	0.0011 U
Vinyl Chloride	0.02	0.9	0.0013 U	0.0011 U	0.0012 U	0.0011 U

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New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - VOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-19_20190403 13.94 460-178736-15 4/3/2019 2:00:00 PM mg/kg	EP-20_20190403 13.51 460-178736-16 4/3/2019 2:15:00 PM mg/kg	EP-21_20190429 11.98 460-180693-1 4/29/2019 10:05:00 AM mg/kg	EP-X03_20190429 12.70 460-180693-3 4/29/2019 10:10:00 AM mg/kg
1,1,1-Trichloroethane	0.68	100	0.00052 J	0.00053 J	0.0015 U	0.0015 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0011 U	0.0011 U	0.0015 U	0.0015 U
1,1,2-Trichloroethane	NS	NS	0.0011 U	0.0011 U	0.0015 U	0.0015 U
1,1-Dichloroethane	0.27	26	0.0011 U	0.0011 U	0.0015 U	0.0015 U
1,1-Dichloroethene	0.33	100	0.0011 U	0.0011 U	0.0015 U	0.0015 U
1,2,3-Trichlorobenzene	NS	NS	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
1,2,4-Trichlorobenzene	NS	NS	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0011 U	0.0011 U	0.0015 U	0.0015 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
1,2-Dichlorobenzene	1.1	100	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
1,2-Dichloroethane	0.02	3.1	0.0011 U	0.0011 U	0.0015 U	0.0015 U
1,2-Dichloropropane	NS	NS	0.0011 U	0.0011 U	0.0015 U	0.0015 U
1,3-Dichlorobenzene	2.4	49	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
1,4-Dichlorobenzene	1.8	13	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
2-Hexanone	NS	NS	0.0057 U	0.0056 U	0.0075 UJ	0.0075 U
Acetone	0.05	100	0.0057 U	0.0056 U	0.0075 U	0.0075 U
Benzene	0.06	4.8	0.0011 U	0.0011 U	0.00058 J	0.0015 U
Bromochloromethane	NS	NS	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
Bromodichloromethane	NS	NS	0.0011 U	0.0011 U	0.0015 U	0.0015 U
Bromoform	NS	NS	0.0011 U	0.0011 U	0.0015 U	0.0015 U
Bromomethane	NS	NS	0.0011 U	0.0011 U	0.0015 U	0.0015 U
Carbon Disulfide	NS	NS	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
Carbon Tetrachloride	0.76	2.4	0.0011 U	0.0011 U	0.0015 U	0.0015 U
Chlorobenzene	1.1	100	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
Chloroethane	NS	NS	0.0011 U	0.0011 U	0.0015 U	0.0015 U
Chloroform	0.37	49	0.0011 U	0.00063 J	0.0015 U	0.0015 U
Chloromethane	NS	NS	0.0011 U	0.0011 U	0.0015 U	0.0015 U
Cis-1,2-Dichloroethylene	0.25	100	0.0011 U	0.0011 U	0.0015 U	0.0015 U
Cis-1,3-Dichloropropene	NS	NS	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
Cyclohexane	NS	NS	0.0011 U	0.0011 U	0.0015 U	0.0015 U
Dibromochloromethane	NS	NS	0.0011 U	0.0011 U	0.0015 U	0.0015 U
Dichlorodifluoromethane	NS	NS	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
Ethylbenzene	1	41	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
Isopropylbenzene (Cumene)	NS	NS	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
M,P-Xylenes	NS	NS	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
Methyl Acetate	NS	NS	0.0057 U	0.0056 U	0.0075 U	0.0075 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0057 U	0.0056 U	0.0075 U	0.0075 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.0057 U	0.0056 U	0.0075 U	0.0075 U
Methylcyclohexane	NS	NS	0.0011 U	0.0011 U	0.0015 U	0.0015 U
Methylene Chloride	0.05	100	0.0012 U	0.0011 U	0.00042 J	0.00047 J
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
Styrene	NS	NS	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
Tert-Butyl Methyl Ether	0.93	100	0.0011 U	0.0011 U	0.0015 U	0.0015 U
Tetrachloroethylene (PCE)	1.3	19	0.0011 U	0.0035	0.00049 JL	0.00056 J
Toluene	0.7	100	0.0011 U	0.0011 U	0.0015 U	0.0015 U
Trans-1,2-Dichloroethene	0.19	100	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
Trans-1,3-Dichloropropene	NS	NS	0.0011 U	0.0011 U	0.0015 UJ	0.0015 U
Trichloroethylene (TCE)	0.47	21	0.0011 U	0.0002 J	0.0015 U	0.0015 U
Trichlorofluoromethane	NS	NS	0.0011 U	0.0011 U	0.0015 U	0.0015 U
Vinyl Chloride	0.02	0.9	0.0011 U	0.0011 U	0.0015 U	0.0015 U

Attached Table 6
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - VOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-22_20190429 12.70 460-180693-2 4/29/2019 10:15:00 AM mg/kg	EP-23_20190701 16.45 460-185721-1 7/1/2019 12:35:00 PM mg/kg	EP-24_20190701 15.93 460-185721-2 7/1/2019 12:45:00 PM mg/kg	EP-X04_20190701 15.93 460-185721-3 7/1/2019 12:55:00 PM mg/kg
1,1,1-Trichloroethane	0.68	100	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
1,1,2,2-Tetrachloroethane	NS	NS	0.0014 U	0.0015 U	0.0016 R	0.0016 R
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
1,1,2-Trichloroethane	NS	NS	0.0014 U	0.0015 U	0.0016 U	0.0016 U
1,1-Dichloroethane	0.27	26	0.0014 U	0.0015 U	0.0016 U	0.0016 U
1,1-Dichloroethene	0.33	100	0.0014 U	0.0015 UJ	0.0016 UJ	0.0016 UJ
1,2,3-Trichlorobenzene	NS	NS	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
1,2,4-Trichlorobenzene	NS	NS	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
1,2-Dibromo-3-Chloropropane	NS	NS	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
1,2-Dichlorobenzene	1.1	100	0.0014 U	0.0015 U	0.0016 UJ	0.0016 U
1,2-Dichloroethane	0.02	3.1	0.0014 U	0.0015 U	0.0016 U	0.0016 U
1,2-Dichloropropane	NS	NS	0.0014 U	0.0015 U	0.0016 U	0.0016 U
1,3-Dichlorobenzene	2.4	49	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
1,4-Dichlorobenzene	1.8	13	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
2-Hexanone	NS	NS	0.007 U	0.0074 U	0.0078 U	0.0079 U
Acetone	0.05	100	0.007 U	0.027 JK	0.0094 U	0.01 U
Benzene	0.06	4.8	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Bromochloromethane	NS	NS	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Bromodichloromethane	NS	NS	0.0014 U	0.0015 U	0.0016 U	0.0016 U
Bromoform	NS	NS	0.0014 U	0.0015 U	0.0016 U	0.0016 U
Bromomethane	NS	NS	0.0014 U	0.0015 U	0.0016 U	0.0016 U
Carbon Disulfide	NS	NS	0.0014 U	0.0015 UJ	0.0016 UJ	0.0016 UJ
Carbon Tetrachloride	0.76	2.4	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Chlorobenzene	1.1	100	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Chloroethane	NS	NS	0.0014 U	0.0015 U	0.0016 U	0.0016 U
Chloroform	0.37	49	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Chloromethane	NS	NS	0.0014 U	0.0015 U	0.0016 U	0.0016 U
Cis-1,2-Dichloroethylene	0.25	100	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Cis-1,3-Dichloropropene	NS	NS	0.0014 U	0.0015 U	0.0016 U	0.0016 U
Cyclohexane	NS	NS	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Dibromochloromethane	NS	NS	0.0014 U	0.0015 U	0.0016 U	0.0016 U
Dichlorodifluoromethane	NS	NS	0.0014 U	0.0015 UJ	0.0016 UJ	0.0016 UJ
Ethylbenzene	1	41	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Isopropylbenzene (Cumene)	NS	NS	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
M,P-Xylenes	NS	NS	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Methyl Acetate	NS	NS	0.007 U	0.0074 U	0.0078 UJ	0.0079 UJ
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.007 U	0.0074 U	0.0078 U	0.0079 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	0.007 U	0.0074 U	0.0078 U	0.0079 U
Methylcyclohexane	NS	NS	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Methylene Chloride	0.05	100	0.00051 J	0.0015 U	0.0016 UJ	0.0016 UJ
O-Xylene (1,2-Dimethylbenzene)	NS	NS	0.0014 U	0.0015 U	0.0016 UJ	0.00036 JL
Styrene	NS	NS	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Tert-Butyl Methyl Ether	0.93	100	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Tetrachloroethylene (PCE)	1.3	19	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Toluene	0.7	100	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Trans-1,2-Dichloroethene	0.19	100	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Trans-1,3-Dichloropropene	NS	NS	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Trichloroethylene (TCE)	0.47	21	0.0014 U	0.0015 U	0.0016 UJ	0.0016 U
Trichlorofluoromethane	NS	NS	0.0014 U	0.0015 U	0.0016 UJ	0.0016 UJ
Vinyl Chloride	0.02	0.9	0.0014 U	0.0015 U	0.0016 U	0.0016 U

Attached Table 6
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - VOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-FB-01_20190225 N/A 460-176028-9 2/25/2019 9:50:00 AM ug/L	EP-FB-02_20190403 N/A 460-178736-2 4/3/2019 12:00:00 PM ug/L	EP-FB-03_20190429 N/A 460-180693-4 4/29/2019 11:40:00 AM ug/L	EP-FB-04_20190701 N/A 460-185721-4 7/1/2019 1:05:00 PM ug/L
1,1,1-Trichloroethane	0.68	100	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	NS	NS	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	NS	NS	1 U	1 U	1 U	1 U
1,1-Dichloroethane	0.27	26	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.33	100	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	NS	NS	1 U	1 U	1 U	1 UJ
1,2,4-Trichlorobenzene	NS	NS	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	NS	NS	1 U	1 U	1 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	1.1	100	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.02	3.1	1 U	1 U	1 U	1 U
1,2-Dichloropropane	NS	NS	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	2.4	49	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	1.8	13	1 U	1 U	1 U	1 U
2-Hexanone	NS	NS	5 U	5 U	5 U	5 U
Acetone	0.05	100	5 U	5 U	5 U	**7.8**
Benzene	0.06	4.8	1 U	1 U	1 U	1 U
Bromochloromethane	NS	NS	1 U	1 U	1 U	1 U
Bromodichloromethane	NS	NS	1 U	1 U	1 U	1 U
Bromoform	NS	NS	1 U	1 U	1 UJ	1 U
Bromomethane	NS	NS	1 U	1 UJ	1 U	1 U
Carbon Disulfide	NS	NS	1 U	1 U	1 U	1 U
Carbon Tetrachloride	0.76	2.4	1 UJ	1 U	1 U	1 U
Chlorobenzene	1.1	100	1 U	1 U	1 U	1 U
Chloroethane	NS	NS	1 U	1 U	1 U	1 U
Chloroform	0.37	49	1 U	1 U	1 U	1 U
Chloromethane	NS	NS	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	0.25	100	1 U	1 U	1 U	1 U
Cis-1,3-Dichloropropene	NS	NS	1 U	1 U	1 U	1 U
Cyclohexane	NS	NS	1 U	1 U	1 U	1 U
Dibromochloromethane	NS	NS	1 UJ	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	1 U	1 U	1 U	1 U
Ethylbenzene	1	41	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	NS	NS	1 U	1 U	1 U	1 U
M,P-Xylenes	NS	NS	1 U	1 U	1 U	0.61 J
Methyl Acetate	NS	NS	5 U	5 U	5 U	5 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	5 U	5 U	5 U	5 U
Methylcyclohexane	NS	NS	1 U	1 U	1 U	1 U
Methylene Chloride	0.05	100	1 U	1 U	1 U	1 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	1 U	1 U	1 U	1 U
Styrene	NS	NS	1 U	1 U	1 U	1 U
Tert-Butyl Methyl Ether	0.93	100	1 U	1 U	1 U	1 U
Tetrachloroethylene (PCE)	1.3	19	1 U	1 U	1 U	1 U
Toluene	0.7	100	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	0.19	100	1 U	1 U	1 U	1 U
Trans-1,3-Dichloropropene	NS	NS	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	0.47	21	1 U	1 U	1 U	1 U
Trichlorofluoromethane	NS	NS	1 U	1 U	1 U	1 U
Vinyl Chloride	0.02	0.9	1 U	1 U	1 U	1 U

Attached Table 6
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - VOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-TB-01_20190225 N/A 460-176028-10 2/25/2019 ug/L	EP-TB-02_20190403 N/A 460-178736-3 4/3/2019 ug/L	EP-TB-03_20190429 N/A 460-180693-5 4/29/2019 ug/L	EP-TB-04_20190701 N/A 460-185721-5 7/1/2019 1:15:00 PM ug/L
1,1,1-Trichloroethane	0.68	100	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	NS	NS	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NS	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	NS	NS	1 U	1 U	1 U	1 U
1,1-Dichloroethane	0.27	26	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.33	100	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	NS	NS	1 U	1 U	1 U	1 UJ
1,2,4-Trichlorobenzene	NS	NS	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	NS	NS	1 U	1 U	1 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	1.1	100	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.02	3.1	1 U	1 U	1 U	1 U
1,2-Dichloropropane	NS	NS	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	2.4	49	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	1.8	13	1 U	1 U	1 U	1 U
2-Hexanone	NS	NS	5 U	5 U	5 U	5 U
Acetone	0.05	100	28	5 U	5 U	5 U
Benzene	0.06	4.8	1 U	1 U	1 U	1 U
Bromochloromethane	NS	NS	1 U	1 U	1 U	1 U
Bromodichloromethane	NS	NS	1 U	1 U	1 U	1 U
Bromoform	NS	NS	1 U	1 U	1 UJ	1 U
Bromomethane	NS	NS	1 U	1 UJ	1 U	1 U
Carbon Disulfide	NS	NS	1 U	1 U	1 U	1 U
Carbon Tetrachloride	0.76	2.4	1 UJ	1 U	1 U	1 U
Chlorobenzene	1.1	100	1 U	1 U	1 U	1 U
Chloroethane	NS	NS	1 U	1 U	1 U	1 U
Chloroform	0.37	49	1 U	1 U	1 U	1 U
Chloromethane	NS	NS	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	0.25	100	1 U	1 U	1 U	1 U
Cis-1,3-Dichloropropene	NS	NS	1 U	1 U	1 U	1 U
Cyclohexane	NS	NS	1 U	1 U	1 U	1 U
Dibromochloromethane	NS	NS	1 UJ	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	1 U	1 U	1 U	1 U
Ethylbenzene	1	41	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	NS	NS	1 U	1 U	1 U	1 U
M,P-Xylenes	NS	NS	1 U	0.34 J	0.3 J	0.5 J
Methyl Acetate	NS	NS	5 U	5 U	5 U	5 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	5 U	5 U	5 U	5 U
Methylcyclohexane	NS	NS	1 U	1 U	1 U	1 U
Methylene Chloride	0.05	100	1 U	1 U	1 U	1 U
O-Xylene (1,2-Dimethylbenzene)	NS	NS	1 U	1 U	1 U	1 U
Styrene	NS	NS	1 U	1 U	1 U	1 U
Tert-Butyl Methyl Ether	0.93	100	1 U	1 U	1 U	1 U
Tetrachloroethylene (PCE)	1.3	19	1 U	1 U	1 U	1 U
Toluene	0.7	100	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	0.19	100	1 U	1 U	1 U	1 U
Trans-1,3-Dichloropropene	NS	NS	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	0.47	21	1 U	1 U	1 U	1 U
Trichlorofluoromethane	NS	NS	1 U	1 U	1 U	1 U
Vinyl Chloride	0.02	0.9	1 U	1 U	1 U	1 U

Attached Table 7
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - SVOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-01_20190225 2.72 460-176028-1 2/25/2019 7:50:00 AM mg/kg	EP-02_20190225 2.19 460-176028-2 2/25/2019 8:00:00 AM mg/kg	EP-X01_20190225 2.19 460-176028-8 2/25/2019 9:30:00 AM mg/kg	EP-03_20190225 2.53 460-176028-3 2/25/2019 8:20:00 AM mg/kg	EP-04_20190225 2.71 460-176028-4 2/25/2019 8:30:00 AM mg/kg
1,2,4,5-Tetrachlorobenzene	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
2,4,5-Trichlorophenol	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
2,4,6-Trichlorophenol	NS	NS	0.15 U	0.15 U	0.15 U	0.14 U	0.15 U
2,4-Dichlorophenol	NS	NS	0.15 U	0.15 U	0.15 U	0.14 U	0.15 U
2,4-Dimethylphenol	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
2,4-Dinitrophenol	NS	NS	0.29 UJ	0.3 R	0.29 R	0.29 UJ	0.29 UJ
2,4-Dinitrotoluene	NS	NS	0.074 U	0.075 U	0.074 U	0.072 U	0.074 U
2,6-Dinitrotoluene	NS	NS	0.074 U	0.075 U	0.074 U	0.072 U	0.074 U
2-Chloronaphthalene	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
2-Chlorophenol	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
2-Methylnaphthalene	NS	NS	0.026 J	0.014 JL	0.023 J	0.024 J	0.036 J
2-Methylphenol (O-Cresol)	0.33	100	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
2-Nitroaniline	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
2-Nitrophenol	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
3,3'-Dichlorobenzidine	NS	NS	0.15 U	0.15 U	0.15 U	0.14 U	0.15 U
3-Nitroaniline	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.29 U	0.3 U	0.29 U	0.29 U	0.29 U
4-Bromophenyl Phenyl Ether	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
4-Chloro-3-Methylphenol	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
4-Chloroaniline	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
4-Methylphenol (P-Cresol)	0.33	100	0.026 J	0.021 J	0.033 J	0.013 J	0.02 J
4-Nitroaniline	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
4-Nitrophenol	NS	NS	0.74 UJ	0.75 U	0.74 UJ	0.72 UJ	0.74 UJ
Acenaphthene	20	100	0.037 J	0.37 U	0.033 J	0.026 J	0.052 J
Acenaphthylene	100	100	0.36 U	0.37 U	0.0094 J	0.35 U	0.36 U
Acetophenone	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
Anthracene	100	100	0.051 J	0.37 U	0.066 J	0.048 J	0.097 J
Atrazine	NS	NS	0.15 UJ	0.15 U	0.15 UJ	0.14 UJ	0.15 UJ
Benzaldehyde	NS	NS	0.026 J	0.37 U	0.016 J	0.027 J	0.027 J
Benzo(a)Anthracene	1	1	0.12	0.063 JL	0.16	0.11	0.23
Benzo(a)Pyrene	1	1	0.093	0.05 JL	0.13	0.1	0.18
Benzo(b)Fluoranthene	1	1	0.13	0.063 JL	0.17	0.15	0.24
Benzo(g,h,i)Perylene	100	100	0.065 J	0.028 JL	0.089 J	0.078 J	0.12 J
Benzo(k)Fluoranthene	0.8	3.9	0.048	0.033 JL	0.079	0.054	0.11
Benzyl Butyl Phthalate	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
Biphenyl (Diphenyl)	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.036 U	0.037 U	0.036 U	0.035 U	0.036 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.36 U	0.37 U	0.042 J	0.045 J	0.36 U
Caprolactam	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
Carbazole	NS	NS	0.023 J	0.37 U	0.023 J	0.015 J	0.03 J
Chrysene	1	3.9	0.12 J	0.065 JL	0.17 J	0.13 J	0.23 J
Dibenz(a,h)Anthracene	0.33	0.33	0.036 U	0.037 U	0.028 J	0.021 J	0.032 J
Dibenzofuran	7	59	0.031 J	0.016 JL	0.033 J	0.028 J	0.051 J
Diethyl Phthalate	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
Dimethyl Phthalate	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
Di-N-Butyl Phthalate	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
Di-N-Octylphthalate	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
Fluoranthene	100	100	0.26 J	0.12 JL	0.33 J	0.22 J	0.57
Fluorene	30	100	0.043 J	0.015 JL	0.046 J	0.029 J	0.063 J
Hexachlorobenzene	0.33	1.2	0.036 U	0.037 U	0.036 U	0.035 U	0.036 U
Hexachlorobutadiene	NS	NS	0.074 U	0.075 U	0.074 U	0.072 U	0.074 U
Hexachlorocyclopentadiene	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
Hexachloroethane	NS	NS	0.036 U	0.037 U	0.036 U	0.035 U	0.036 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.072	0.03 JL	0.099	0.078	0.12
Isophorone	NS	NS	0.15 U	0.15 U	0.15 U	0.14 U	0.15 U
Naphthalene	12	100	0.057 J	0.038 JL	0.069 J	0.061 J	0.076 J
Nitrobenzene	NS	NS	0.036 U	0.037 U	0.036 U	0.035 U	0.036 U
N-Nitrosodi-N-Propylamine	NS	NS	0.036 U	0.037 U	0.036 U	0.035 U	0.036 U
N-Nitrosodiphenylamine	NS	NS	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U
Pentachlorophenol	0.8	6.7	0.29 U	0.3 U	0.29 U	0.29 U	0.29 U
Phenanthrene	100	100	0.23 J	0.089 JL	0.27 J	0.19 J	0.41
Phenol	0.33	100	0.014 J	0.37 U	0.36 U	0.35 U	0.36 U
Pyrene	100	100	0.27 J	0.12 JL	0.35 J	0.24 J	0.59

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Site Endpoint Samples - SVOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-05_20190225 2.59 460-176028-5 2/25/2019 9:00:00 AM mg/kg	EP-06_20190225 2.66 460-176028-6 2/25/2019 8:45:00 AM mg/kg	EP-07_20190225 2.35 460-176028-7 2/25/2019 9:05:00 AM mg/kg	EP-08_20190403 12.56 460-178736-4 4/3/2019 8:00:00 AM mg/kg	EP-X02_20190403 12.56 460-178736-1 4/3/2019 11:00:00 AM mg/kg
1,2,4,5-Tetrachlorobenzene	NS	NS	0.38 U	0.36 U	0.38 U	0.38 U	1.9 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
2,4,5-Trichlorophenol	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
2,4,6-Trichlorophenol	NS	NS	0.15 U	0.14 U	0.15 U	0.15 UJ	0.77 U
2,4-Dichlorophenol	NS	NS	0.15 U	0.14 U	0.15 U	0.15 UJ	0.77 U
2,4-Dimethylphenol	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
2,4-Dinitrophenol	NS	NS	0.3 UJ	0.29 UJ	0.31 UJ	0.31 R	1.5 R
2,4-Dinitrotoluene	NS	NS	0.076 U	0.072 U	0.077 U	0.078 UJ	0.39 U
2,6-Dinitrotoluene	NS	NS	0.076 U	0.072 U	0.077 U	0.078 UJ	0.39 U
2-Chloronaphthalene	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
2-Chlorophenol	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
2-Methylnaphthalene	NS	NS	0.061 J	0.039 J	0.044 J	0.047 JL	0.42 J
2-Methylphenol (O-Cresol)	0.33	100	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
2-Nitroaniline	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
2-Nitrophenol	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
3,3'-Dichlorobenzidine	NS	NS	0.15 U	0.14 U	0.15 U	0.15 U	0.77 U
3-Nitroaniline	NS	NS	0.38 U	0.36 U	0.38 U	0.38 U	1.9 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.3 U	0.29 U	0.31 U	0.31 R	1.5 R
4-Bromophenyl Phenyl Ether	NS	NS	0.38 U	0.36 U	0.38 U	0.38 U	1.9 U
4-Chloro-3-Methylphenol	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
4-Chloroaniline	NS	NS	0.38 U	0.36 U	0.38 U	0.38 U	1.9 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
4-Methylphenol (P-Cresol)	0.33	100	0.029 J	0.012 J	0.046 J	0.1 JL	0.054 J
4-Nitroaniline	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
4-Nitrophenol	NS	NS	0.76 UJ	0.72 UJ	0.77 UJ	0.78 UJ	3.9 U
Acenaphthene	20	100	0.23 J	0.028 J	0.055 J	0.059 JL	1.6 J
Acenaphthylene	100	100	0.013 J	0.36 U	0.38 U	0.38 UJ	0.21 J
Acetophenone	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
Anthracene	100	100	0.42	0.036 J	0.1 J	0.14 JL	3.1
Atrazine	NS	NS	0.15 UJ	0.14 UJ	0.15 UJ	0.15 U	0.77 U
Benzaldehyde	NS	NS	0.38 U	0.36 U	0.023 J	0.024 JL	1.9 U
Benzo(a)Anthracene	1	1	0.9	0.089	0.23	0.37 JL	**10**
Benzo(a)Pyrene	1	1	0.76	0.072	0.21	0.32 JL	**7.1**
Benzo(b)Fluoranthene	1	1	1	0.1	0.26	0.45 JL	**8.7**
Benzo(g,h,i)Perylene	100	100	0.54	0.06 J	0.16 J	0.22 JL	2.2
Benzo(k)Fluoranthene	0.8	3.9	0.38	0.049	0.097	0.17 JL	**3.1**
Benzyl Butyl Phthalate	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	0.31 J
Biphenyl (Diphenyl)	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	0.11 J
Bis(2-Chloroethoxy) Methane	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.038 U	0.036 U	0.038 U	0.038 UJ	0.19 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.38 U	0.36 U	0.38 U	0.38 U	1.9 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.38 U	0.36 U	0.38 U	0.085 JL	0.9 J
Caprolactam	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
Carbazole	NS	NS	0.18 J	0.02 J	0.041 J	0.048 JL	0.58 J
Chrysene	1	3.9	0.82	0.095 J	0.24 J	0.39 JL	**10**
Dibenz(a,h)Anthracene	0.33	0.33	0.15	0.036 U	0.046	0.058 JL	**0.54**
Dibenzofuran	7	59	0.16 J	0.031 J	0.061 J	0.068 JL	0.36 J
Diethyl Phthalate	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
Dimethyl Phthalate	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
Di-N-Butyl Phthalate	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	1.9 U
Di-N-Octylphthalate	NS	NS	0.38 U	0.36 U	0.38 U	0.38 U	1.9 U
Fluoranthene	100	100	1.9	0.18 J	0.48	0.78 JL	17
Fluorene	30	100	0.22 J	0.026 J	0.061 J	0.065 JL	1.2 J
Hexachlorobenzene	0.33	1.2	0.038 U	0.036 U	0.038 U	0.038 U	0.19 U
Hexachlorobutadiene	NS	NS	0.076 U	0.072 U	0.077 U	0.078 UJ	0.39 U
Hexachlorocyclopentadiene	NS	NS	0.38 U	0.36 U	0.38 U	0.38 R	1.9 R
Hexachloroethane	NS	NS	0.038 U	0.036 U	0.038 U	0.038 UJ	0.19 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	**0.55**	0.059	0.15	0.22 JL	**3.2**
Isophorone	NS	NS	0.15 U	0.14 U	0.15 U	0.15 UJ	0.77 U
Naphthalene	12	100	0.14 J	0.43	0.11 J	0.12 JL	0.35 J
Nitrobenzene	NS	NS	0.038 U	0.036 U	0.038 U	0.038 UJ	0.19 U
N-Nitrosodi-N-Propylamine	NS	NS	0.038 U	0.036 U	0.038 U	0.038 UJ	0.19 U
N-Nitrosodiphenylamine	NS	NS	0.38 U	0.36 U	0.38 U	0.38 UJ	0.3 J
Pentachlorophenol	0.8	6.7	0.3 U	0.29 U	0.31 U	0.31 R	1.5 R
Phenanthrene	100	100	1.9	0.16 J	0.43	0.62 JL	16
Phenol	0.33	100	0.38 U	0.36 U	0.38 U	0.014 JL	1.9 U
Pyrene	100	100	2	0.18 J	0.5	0.76 JL	19

Attached Table 7
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - SVOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-09_20190403 12.87 460-178736-5 4/3/2019 8:35:00 AM mg/kg	EP-10_20190403 11.91 460-178736-6 4/3/2019 8:45:00 AM mg/kg	EP-11_20190403 13.05 460-178736-7 4/3/2019 9:15:00 AM mg/kg	EP-12_20190403 13.37 460-178736-8 4/3/2019 9:45:00 AM mg/kg	EP-13_20190403 12.35 460-178736-9 4/3/2019 10:00:00 AM mg/kg
1,2,4,5-Tetrachlorobenzene	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.39 U	0.43 R	0.45 U	0.39 U	0.4 U
2,4,5-Trichlorophenol	NS	NS	0.39 U	0.43 R	0.45 U	0.39 U	0.4 U
2,4,6-Trichlorophenol	NS	NS	0.16 U	0.17 R	0.18 U	0.16 U	0.16 U
2,4-Dichlorophenol	NS	NS	0.16 U	0.17 R	0.18 U	0.16 U	0.16 U
2,4-Dimethylphenol	NS	NS	0.39 U	0.43 R	0.45 U	0.39 U	0.4 U
2,4-Dinitrophenol	NS	NS	0.32 U	0.35 R	0.36 U	0.32 U	0.32 U
2,4-Dinitrotoluene	NS	NS	0.08 U	0.088 U	0.092 U	0.08 U	0.081 U
2,6-Dinitrotoluene	NS	NS	0.08 U	0.088 U	0.092 U	0.08 U	0.081 U
2-Chloronaphthalene	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
2-Chlorophenol	NS	NS	0.39 U	0.43 R	0.45 U	0.39 U	0.4 U
2-Methylnaphthalene	NS	NS	0.042 J	0.018 J	0.088 J	0.073 J	0.095 J
2-Methylphenol (O-Cresol)	0.33	100	0.39 U	0.43 R	0.45 U	0.39 U	0.4 U
2-Nitroaniline	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
2-Nitrophenol	NS	NS	0.39 U	0.43 R	0.45 U	0.39 U	0.4 U
3,3'-Dichlorobenzidine	NS	NS	0.16 U	0.17 U	0.18 U	0.16 U	0.16 U
3-Nitroaniline	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.32 U	0.35 R	0.36 U	0.32 U	0.32 U
4-Bromophenyl Phenyl Ether	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
4-Chloro-3-Methylphenol	NS	NS	0.39 U	0.43 R	0.45 U	0.39 U	0.4 U
4-Chloroaniline	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
4-Methylphenol (P-Cresol)	0.33	100	0.066 J	0.43 R	0.029 J	0.051 J	0.11 J
4-Nitroaniline	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
4-Nitrophenol	NS	NS	0.8 U	0.88 R	0.92 U	0.8 U	0.81 U
Acenaphthene	20	100	0.078 J	0.43 U	0.1 J	0.08 J	0.092 J
Acenaphthylene	100	100	0.026 J	0.43 U	0.056 J	0.029 J	0.049 J
Acetophenone	NS	NS	0.39 U	0.43 U	0.012 J	0.39 U	0.017 J
Anthracene	100	100	0.23 J	0.048 J	0.31 J	0.16 J	0.17 J
Atrazine	NS	NS	0.16 U	0.17 U	0.18 U	0.16 U	0.16 U
Benzaldehyde	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.037 J
Benzo(a)Anthracene	1	1	0.58	0.22	**1.1**	0.68	0.41
Benzo(a)Pyrene	1	1	0.48	0.22	1	**1.1**	0.35
Benzo(b)Fluoranthene	1	1	0.64	0.3	**1.4**	0.92	0.6
Benzo(g,h,i)Perylene	100	100	0.28 J	0.15 J	0.65	0.9	0.29 J
Benzo(k)Fluoranthene	0.8	3.9	0.25	0.11	0.43	0.33	0.22
Benzyl Butyl Phthalate	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
Biphenyl (Diphenyl)	NS	NS	0.39 U	0.43 U	0.45 U	0.026 J	0.033 J
Bis(2-Chloroethoxy) Methane	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.039 U	0.043 U	0.045 U	0.039 U	0.04 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.099 J	0.43 U	0.2 J	0.39 U	0.4 U
Caprolactam	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
Carbazole	NS	NS	0.075 J	0.017 J	0.098 J	0.055 J	0.065 J
Chrysene	1	3.9	0.55	0.23 J	**1.2**	0.69	0.5
Dibenz(a,h)Anthracene	0.33	0.33	0.068	0.04 J	0.17	0.15	0.073
Dibenzofuran	7	59	0.08 J	0.02 J	0.088 J	0.086 J	0.12 J
Diethyl Phthalate	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
Dimethyl Phthalate	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
Di-N-Butyl Phthalate	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
Di-N-Octylphthalate	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
Fluoranthene	100	100	1.1	0.39 J	2	1.1	1
Fluorene	30	100	0.095 J	0.018 J	0.11 J	0.079 J	0.095 J
Hexachlorobenzene	0.33	1.2	0.039 U	0.043 U	0.045 U	0.039 U	0.04 U
Hexachlorobutadiene	NS	NS	0.08 U	0.088 U	0.092 U	0.08 U	0.081 U
Hexachlorocyclopentadiene	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
Hexachloroethane	NS	NS	0.039 U	0.043 U	0.045 U	0.039 U	0.04 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.31	0.17	**0.7**	**0.66**	0.27
Isophorone	NS	NS	0.16 U	0.17 U	0.18 U	0.16 U	0.16 U
Naphthalene	12	100	0.1 J	0.06 J	0.13 J	0.22 J	0.32 J
Nitrobenzene	NS	NS	0.039 U	0.043 U	0.045 U	0.039 U	0.04 U
N-Nitrosodi-N-Propylamine	NS	NS	0.039 U	0.043 U	0.045 U	0.039 U	0.04 U
N-Nitrosodiphenylamine	NS	NS	0.39 U	0.43 U	0.45 U	0.39 U	0.4 U
Pentachlorophenol	0.8	6.7	0.32 U	0.35 R	0.36 U	0.32 U	0.32 U
Phenanthrene	100	100	0.9	0.23 J	1.5	0.82	0.87
Phenol	0.33	100	0.39 U	0.43 R	0.45 U	0.39 U	0.4 U
Pyrene	100	100	1.1	0.41 J	2.3	1.3	0.98

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Site Endpoint Samples - SVOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-14_20190403 12.82 460-178736-10 4/3/2019 10:10:00 AM mg/kg	EP-15_20190403 13.46 460-178736-11 4/3/2019 10:30:00 AM mg/kg	EP-16_20190403 13.36 460-178736-12 4/3/2019 1:00:00 PM mg/kg	EP-17_20190403 12.37 460-178736-13 4/3/2019 1:15:00 PM mg/kg	EP-18_20190403 14.20 460-178736-14 4/3/2019 1:45:00 PM mg/kg
1,2,4,5-Tetrachlorobenzene	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
2,4,5-Trichlorophenol	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
2,4,6-Trichlorophenol	NS	NS	0.16 U	0.17 U	0.15 U	0.15 U	0.14 U
2,4-Dichlorophenol	NS	NS	0.16 U	0.17 U	0.15 U	0.15 U	0.14 U
2,4-Dimethylphenol	NS	NS	0.069 JK	0.059 JK	0.37 U	0.043 JK	0.36 U
2,4-Dinitrophenol	NS	NS	0.33 U	0.35 U	0.3 U	0.3 U	0.29 U
2,4-Dinitrotoluene	NS	NS	0.082 U	0.087 U	0.075 U	0.076 U	0.073 U
2,6-Dinitrotoluene	NS	NS	0.082 U	0.087 U	0.075 U	0.076 U	0.073 U
2-Chloronaphthalene	NS	NS	0.03 J	0.43 U	0.37 U	0.026 J	0.36 U
2-Chlorophenol	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
2-Methylnaphthalene	NS	NS	0.36 J	0.14 J	0.026 J	0.33 J	0.088 J
2-Methylphenol (O-Cresol)	0.33	100	0.036 J	0.43 U	0.37 U	0.032 J	0.36 U
2-Nitroaniline	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
2-Nitrophenol	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
3,3'-Dichlorobenzidine	NS	NS	0.16 U	0.17 U	0.15 U	0.15 U	0.14 U
3-Nitroaniline	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.33 U	0.35 U	0.3 U	0.3 U	0.29 U
4-Bromophenyl Phenyl Ether	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
4-Chloro-3-Methylphenol	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
4-Chloroaniline	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
4-Methylphenol (P-Cresol)	0.33	100	0.2 J	**0.4 J**	0.027 J	0.12 J	0.041 J
4-Nitroaniline	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
4-Nitrophenol	NS	NS	0.82 U	0.87 U	0.75 U	0.76 U	0.73 U
Acenaphthene	20	100	0.28 J	0.16 J	0.027 J	0.33 J	0.14 J
Acenaphthylene	100	100	0.17 J	0.071 J	0.0097 J	0.13 J	0.039 J
Acetophenone	NS	NS	0.4 U	0.032 J	0.37 U	0.011 J	0.36 U
Anthracene	100	100	0.65	0.26 J	0.052 J	0.53	0.46
Atrazine	NS	NS	0.16 U	0.17 U	0.15 U	0.15 U	0.14 U
Benzaldehyde	NS	NS	0.043 J	0.079 J	0.37 U	0.38 U	0.36 U
Benzo(a)Anthracene	1	1	**1.2**	0.29	0.15	**1.1**	0.99
Benzo(a)Pyrene	1	1	0.96	0.17	0.14	0.92	0.88
Benzo(b)Fluoranthene	1	1	**1.4**	0.34	0.18	**1.3**	**1.2**
Benzo(g,h,i)Perylene	100	100	0.55	0.13 J	0.084 J	0.51	0.54
Benzo(k)Fluoranthene	0.8	3.9	0.46	0.11	0.068	0.39	0.5
Benzyl Butyl Phthalate	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
Biphenyl (Diphenyl)	NS	NS	0.098 J	0.046 J	0.37 U	0.089 J	0.027 J
Bis(2-Chloroethoxy) Methane	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.04 U	0.043 U	0.037 U	0.038 U	0.036 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.4 U	0.43 U	0.37 U	0.075 J	0.36 U
Caprolactam	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
Carbazole	NS	NS	0.32 J	0.079 J	0.024 J	0.23 J	0.12 J
Chrysene	1	3.9	**1.2**	0.41 J	0.15 J	**1.1**	0.98
Dibenz(a,h)Anthracene	0.33	0.33	0.16	0.039 J	0.023 J	0.14	0.12
Dibenzofuran	7	59	0.42	0.19 J	0.033 J	0.36 J	0.15 J
Diethyl Phthalate	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
Dimethyl Phthalate	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
Di-N-Butyl Phthalate	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
Di-N-Octylphthalate	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
Fluoranthene	100	100	2.9	1.1	0.29 J	2.6	2.3
Fluorene	30	100	0.47	0.17 J	0.031 J	0.41	0.18 J
Hexachlorobenzene	0.33	1.2	0.04 U	0.043 U	0.037 U	0.038 U	0.036 U
Hexachlorobutadiene	NS	NS	0.082 U	0.087 U	0.075 U	0.076 U	0.073 U
Hexachlorocyclopentadiene	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
Hexachloroethane	NS	NS	0.04 U	0.043 U	0.037 U	0.038 U	0.036 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	**0.59**	0.13	0.096	**0.56**	**0.58**
Isophorone	NS	NS	0.16 U	0.17 U	0.15 U	0.15 U	0.14 U
Naphthalene	12	100	2.1	0.53	0.07 J	1.1	0.28 J
Nitrobenzene	NS	NS	0.04 U	0.043 U	0.037 U	0.038 U	0.036 U
N-Nitrosodi-N-Propylamine	NS	NS	0.04 U	0.043 U	0.037 U	0.038 U	0.036 U
N-Nitrosodiphenylamine	NS	NS	0.4 U	0.43 U	0.37 U	0.38 U	0.36 U
Pentachlorophenol	0.8	6.7	0.33 U	0.35 U	0.3 U	0.3 U	0.29 U
Phenanthrene	100	100	3.2	1.4	0.24 J	2.8	2.1
Phenol	0.33	100	0.065 J	0.062 J	0.37 U	0.061 J	0.36 U
Pyrene	100	100	2.9	0.96	0.29 J	2.5	2.2

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AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-19_20190403 13.94 460-178736-15 4/3/2019 2:00:00 PM mg/kg	EP-20_20190403 13.51 460-178736-16 4/3/2019 2:15:00 PM mg/kg	EP-21_20190429 11.98 460-180693-1 4/29/2019 10:05:00 AM mg/kg	EP-X03_20190429 12.70 460-180693-3 4/29/2019 10:10:00 AM mg/kg	EP-22_20190429 12.70 460-180693-2 4/29/2019 10:15:00 AM mg/kg
1,2,4,5-Tetrachlorobenzene	NS	NS	0.38 U	0.38 U	0.39 UJ	0.38 U	0.39 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.38 U	0.38 U	0.39 UJ	0.38 U	0.39 U
2,4,5-Trichlorophenol	NS	NS	0.38 U	0.38 U	0.39 UJ	0.38 U	0.39 U
2,4,6-Trichlorophenol	NS	NS	0.16 U	0.15 U	0.16 UJ	0.15 U	0.16 U
2,4-Dichlorophenol	NS	NS	0.16 U	0.15 U	0.16 UJ	0.15 U	0.16 U
2,4-Dimethylphenol	NS	NS	0.38 U	0.38 U	0.39 UJ	0.38 U	0.39 U
2,4-Dinitrophenol	NS	NS	0.31 U	0.31 U	0.31 R	0.31 U	0.31 U
2,4-Dinitrotoluene	NS	NS	0.078 U	0.078 U	0.079 UJ	0.077 U	0.078 U
2,6-Dinitrotoluene	NS	NS	0.078 U	0.078 U	0.079 UJ	0.077 U	0.078 U
2-Chloronaphthalene	NS	NS	0.053 J	0.38 U	0.39 UJ	0.38 U	0.39 U
2-Chlorophenol	NS	NS	0.38 U	0.38 U	0.39 UJ	0.38 U	0.39 U
2-Methylnaphthalene	NS	NS	0.17 J	0.06 J	0.065 JL	0.064 J	0.081 J
2-Methylphenol (O-Cresol)	0.33	100	0.38 U	0.38 U	0.39 UJ	0.38 U	0.39 U
2-Nitroaniline	NS	NS	0.38 U	0.38 U	0.39 UJ	0.38 U	0.39 U
2-Nitrophenol	NS	NS	0.38 U	0.38 U	0.39 R	0.38 U	0.39 U
3,3'-Dichlorobenzidine	NS	NS	0.16 U	0.15 U	0.16 UJ	0.15 U	0.16 U
3-Nitroaniline	NS	NS	0.38 U	0.38 U	0.39 U	0.38 U	0.39 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.31 U	0.31 U	0.31 R	0.31 U	0.31 U
4-Bromophenyl Phenyl Ether	NS	NS	0.38 U	0.38 U	0.39 UJ	0.38 U	0.39 U
4-Chloro-3-Methylphenol	NS	NS	0.38 U	0.38 U	0.39 UJ	0.38 U	0.39 U
4-Chloroaniline	NS	NS	0.38 U	0.38 U	0.39 U	0.38 U	0.39 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.38 U	0.38 U	0.39 UJ	0.38 U	0.39 U
4-Methylphenol (P-Cresol)	0.33	100	0.072 J	0.011 J	0.1 JL	0.07 J	0.2 J
4-Nitroaniline	NS	NS	0.38 U	0.38 U	0.39 UJ	0.38 U	0.39 U
4-Nitrophenol	NS	NS	0.78 U	0.78 U	0.79 R	0.77 U	0.78 U
Acenaphthene	20	100	0.3 J	0.12 J	0.1 JL	0.062 J	0.057 J
Acenaphthylene	100	100	0.28 J	0.088 J	0.022 JL	0.015 J	0.018 J
Acetophenone	NS	NS	0.015 J	0.38 U	0.39 UJ	0.012 J	0.39 U
Anthracene	100	100	0.6	0.41	0.2 JL	0.11 J	0.12 J
Atrazine	NS	NS	0.16 U	0.15 U	0.16 UJ	0.15 U	0.16 U
Benzaldehyde	NS	NS	0.027 J	0.38 U	0.024 JL	0.38 U	0.39 U
Benzo(a)Anthracene	1	1	**1.3**	**1.7**	0.39 JL	0.25	0.29
Benzo(a)Pyrene	1	1	**1.3**	**1.7**	0.3	0.23	0.25
Benzo(b)Fluoranthene	1	1	**1.7**	**2.4**	0.41	0.31	0.35
Benzo(g,h,i)Perylene	100	100	0.81	1.1	0.17 J	0.13 J	0.15 J
Benzo(k)Fluoranthene	0.8	3.9	0.59	**0.84**	0.16 JL	0.11	0.14
Benzyl Butyl Phthalate	NS	NS	0.38 U	0.38 U	0.39 U	0.38 U	0.39 U
Biphenyl (Diphenyl)	NS	NS	0.071 J	0.02 J	0.39 UJ	0.38 U	0.39 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.38 U	0.38 U	0.39 UJ	0.38 U	0.39 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.038 U	0.038 U	0.039 UJ	0.038 U	0.039 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.38 U	0.38 U	0.39 U	0.38 U	0.39 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.091 J	0.38 U	0.39 U	0.044 J	0.037 J
Caprolactam	NS	NS	0.38 U	0.38 U	0.39 R	0.38 U	0.036 J
Carbazole	NS	NS	0.31 J	0.14 J	0.084 JL	0.038 J	0.048 J
Chrysene	1	3.9	**1.4**	**1.8**	0.38 JL	0.25 J	0.29 J
Dibenz(a,h)Anthracene	0.33	0.33	0.16	0.32	0.049 JL	0.039	0.044
Dibenzofuran	7	59	0.31 J	0.11 J	0.1 JL	0.072 J	0.086 J
Diethyl Phthalate	NS	NS	0.38 U	0.38 U	0.39 UJ	0.38 U	0.39 U
Dimethyl Phthalate	NS	NS	0.38 U	0.38 U	0.39 UJ	0.38 U	0.39 U
Di-N-Butyl Phthalate	NS	NS	0.38 U	0.38 U	0.39 UJ	0.84	0.39 U
Di-N-Octylphthalate	NS	NS	0.38 U	0.38 U	0.39 U	0.38 UJ	0.39 UJ
Fluoranthene	100	100	3.4	3.1	0.81 JL	0.5	0.58
Fluorene	30	100	0.44	0.15 J	0.13 JL	0.072 J	0.073 J
Hexachlorobenzene	0.33	1.2	0.038 U	0.038 U	0.039 U	0.038 U	0.039 U
Hexachlorobutadiene	NS	NS	0.078 U	0.078 U	0.079 UJ	0.077 U	0.078 U
Hexachlorocyclopentadiene	NS	NS	0.38 U	0.38 U	0.39 R	0.38 U	0.39 U
Hexachloroethane	NS	NS	0.038 U	0.038 U	0.039 UJ	0.038 U	0.039 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	**0.9**	**1.2**	0.18	0.14 J	0.16 J
Isophorone	NS	NS	0.16 U	0.15 U	0.16 UJ	0.15 U	0.16 U
Naphthalene	12	100	0.67	0.14 J	0.23 JL	0.19 J	0.29 J
Nitrobenzene	NS	NS	0.038 U	0.038 U	0.039 UJ	0.038 U	0.039 U
N-Nitrosodi-N-Propylamine	NS	NS	0.038 U	0.038 U	0.039 UJ	0.038 U	0.039 U
N-Nitrosodiphenylamine	NS	NS	0.38 U	0.38 U	0.39 UJ	0.38 U	0.39 U
Pentachlorophenol	0.8	6.7	0.31 U	0.31 U	0.31 UJ	0.31 U	0.31 U
Phenanthrene	100	100	3.6	1.9	0.88 JL	0.47	0.53
Phenol	0.33	100	0.036 J	0.38 U	0.39 UJ	0.38 U	0.39 U
Pyrene	100	100	3.4	3.2	0.91	0.58	0.67

Attached Table 7
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - SVOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-23_20190701 16.45 460-185721-1 7/1/2019 12:35:00 PM mg/kg	EP-24_20190701 15.93 460-185721-2 7/1/2019 12:45:00 PM mg/kg	EP-X04_20190701 15.93 460-185721-3 7/1/2019 12:55:00 PM mg/kg	EP-FB-01_20190225 N/A 460-176028-9 2/25/2019 9:50:00 AM ug/L	EP-FB-02_20190403 N/A 460-178736-2 4/3/2019 12:00:00 PM ug/L
1,2,4,5-Tetrachlorobenzene	NS	NS	0.75 U	0.36 UJ	0.37 UJ	10 U	10 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.75 U	0.36 R	0.37 R	10 UJ	10 U
2,4,5-Trichlorophenol	NS	NS	0.75 U	0.36 R	0.37 UJ	10 U	10 U
2,4,6-Trichlorophenol	NS	NS	0.3 U	0.15 R	0.15 UJ	10 U	10 U
2,4-Dichlorophenol	NS	NS	0.3 U	0.15 R	0.15 UJ	10 U	10 U
2,4-Dimethylphenol	NS	NS	0.75 U	0.36 R	0.37 UJ	10 U	10 U
2,4-Dinitrophenol	NS	NS	0.61 U	0.29 R	0.3 R	20 UJ	20 U
2,4-Dinitrotoluene	NS	NS	0.15 U	0.074 UJ	0.076 UJ	2 U	2 U
2,6-Dinitrotoluene	NS	NS	0.15 U	0.074 UJ	0.076 UJ	2 U	2 U
2-Chloronaphthalene	NS	NS	0.75 U	0.36 UJ	0.37 UJ	10 U	10 U
2-Chlorophenol	NS	NS	0.75 U	0.36 R	0.37 UJ	10 U	10 U
2-Methylnaphthalene	NS	NS	0.034 J	0.023 JL	0.022 JL	10 U	10 U
2-Methylphenol (O-Cresol)	0.33	100	0.75 U	0.36 R	0.37 UJ	10 U	10 U
2-Nitroaniline	NS	NS	0.75 U	0.36 UJ	0.37 UJ	10 U	10 U
2-Nitrophenol	NS	NS	0.75 U	0.36 R	0.37 UJ	10 U	10 U
3,3'-Dichlorobenzidine	NS	NS	0.3 U	0.15 U	0.15 U	10 U	10 U
3-Nitroaniline	NS	NS	0.75 U	0.36 U	0.37 U	10 U	10 U
4,6-Dinitro-2-Methylphenol	NS	NS	0.61 U	0.29 R	0.3 R	20 UJ	20 U
4-Bromophenyl Phenyl Ether	NS	NS	0.75 U	0.36 UJ	0.37 UJ	10 U	10 U
4-Chloro-3-Methylphenol	NS	NS	0.75 U	0.36 R	0.37 UJ	10 U	10 U
4-Chloroaniline	NS	NS	0.75 U	0.36 U	0.37 U	10 U	10 U
4-Chlorophenyl Phenyl Ether	NS	NS	0.75 U	0.36 UJ	0.37 UJ	10 U	10 U
4-Methylphenol (P-Cresol)	0.33	100	0.75 U	0.36 R	0.37 UJ	10 U	10 UJ
4-Nitroaniline	NS	NS	0.75 U	0.36 UJ	0.37 UJ	10 U	10 U
4-Nitrophenol	NS	NS	1.5 U	0.74 R	0.76 UJ	20 U	20 U
Acenaphthene	20	100	0.11 J	0.059 JL	0.032 JL	10 U	10 U
Acenaphthylene	100	100	0.038 J	0.015 JL	0.37 UJ	10 U	10 U
Acetophenone	NS	NS	0.75 U	0.36 UJ	0.37 UJ	10 U	10 U
Anthracene	100	100	0.71 J	0.16 JL	0.095 JL	10 U	10 U
Atrazine	NS	NS	0.3 U	0.15 UJ	0.15 UJ	2 U	2 U
Benzaldehyde	NS	NS	0.75 U	0.36 UJ	0.37 UJ	10 U	10 U
Benzo(a)Anthracene	1	1	4.9	0.43 JL	0.28 JL	1 U	1 U
Benzo(a)Pyrene	1	1	4	0.37 JL	0.24 JL	1 U	1 U
Benzo(b)Fluoranthene	1	1	6.6	0.52 JL	0.33 JL	2 U	2 U
Benzo(g,h,i)Perylene	100	100	3.1	0.23 JL	0.12 JL	10 UJ	10 U
Benzo(k)Fluoranthene	0.8	3.9	2.5	0.2 JL	0.13 JL	1 U	1 U
Benzyl Butyl Phthalate	NS	NS	0.75 U	0.019 JL	0.37 UJ	10 U	10 U
Biphenyl (Diphenyl)	NS	NS	0.75 U	0.36 UJ	0.37 UJ	10 U	10 U
Bis(2-Chloroethoxy) Methane	NS	NS	0.75 U	0.36 UJ	0.37 UJ	10 U	10 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	0.075 U	0.036 UJ	0.037 UJ	1 U	1 U
Bis(2-Chloroisopropyl) Ether	NS	NS	0.75 UJ	0.36 UJ	0.37 UJ	10 U	10 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	0.13 J	0.36 UJ	0.023 JL	2 U	2 U
Caprolactam	NS	NS	0.75 U	0.36 UJ	0.37 UJ	10 U	10 U
Carbazole	NS	NS	0.59 J	0.076 JL	0.048 JL	10 U	10 U
Chrysene	1	3.9	5.6	0.42 JL	0.3 JL	2 U	2 U
Dibenz(a,h)Anthracene	0.33	0.33	0.67	0.063 JL	0.039 JL	1 UJ	1 U
Dibenzofuran	7	59	0.081 J	0.054 JL	0.038 JL	10 U	10 U
Diethyl Phthalate	NS	NS	0.75 U	0.36 UJ	0.37 UJ	10 U	10 U
Dimethyl Phthalate	NS	NS	0.75 U	0.36 UJ	0.37 UJ	10 U	10 U
Di-N-Butyl Phthalate	NS	NS	0.75 U	0.36 UJ	0.37 UJ	10 U	10 U
Di-N-Octylphthalate	NS	NS	0.75 U	0.36 UJ	0.37 UJ	10 U	10 U
Fluoranthene	100	100	12	0.8 JL	0.53 JL	10 U	10 U
Fluorene	30	100	0.088 J	0.064 JL	0.029 JL	10 U	10 U
Hexachlorobenzene	0.33	1.2	0.075 U	0.036 UJ	0.037 UJ	1 U	1 U
Hexachlorobutadiene	NS	NS	0.15 U	0.074 UJ	0.076 UJ	1 U	1 U
Hexachlorocyclopentadiene	NS	NS	0.75 U	0.36 R	0.37 R	10 U	10 U
Hexachloroethane	NS	NS	0.075 U	0.036 UJ	0.037 UJ	2 U	2 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	3.6	0.27 JL	0.15 JL	2 UJ	2 U
Isophorone	NS	NS	0.3 U	0.15 UJ	0.15 UJ	10 U	10 U
Naphthalene	12	100	0.088 J	0.043 JL	0.06 JL	10 U	10 U
Nitrobenzene	NS	NS	0.075 U	0.036 UJ	0.037 UJ	1 U	1 U
N-Nitrosodi-N-Propylamine	NS	NS	0.075 U	0.036 UJ	0.037 UJ	1 U	1 U
N-Nitrosodiphenylamine	NS	NS	0.75 U	0.36 UJ	0.37 UJ	10 U	10 U
Pentachlorophenol	0.8	6.7	0.61 U	0.29 R	0.3 R	20 UJ	20 U
Phenanthrene	100	100	3.4	0.59 JL	0.31 JL	10 U	10 U
Phenol	0.33	100	0.75 U	0.36 R	0.37 UJ	10 U	10 U
Pyrene	100	100	11	0.71 JL	0.5 JL	10 U	10 U

Attached Table 7
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - SVOCs

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-FB-03_20190429 N/A 460-180693-4 4/29/2019 11:40:00 AM ug/L	EP-FB-04_20190701 N/A 460-185721-4 7/1/2019 1:05:00 PM ug/L
1,2,4,5-Tetrachlorobenzene	NS	NS	10 U	10 U
2,3,4,6-Tetrachlorophenol	NS	NS	10 UJ	10 U
2,4,5-Trichlorophenol	NS	NS	10 U	10 U
2,4,6-Trichlorophenol	NS	NS	10 U	10 U
2,4-Dichlorophenol	NS	NS	10 U	10 U
2,4-Dimethylphenol	NS	NS	10 U	10 U
2,4-Dinitrophenol	NS	NS	20 U	20 U
2,4-Dinitrotoluene	NS	NS	2 U	2 U
2,6-Dinitrotoluene	NS	NS	2 U	2 U
2-Chloronaphthalene	NS	NS	10 U	10 U
2-Chlorophenol	NS	NS	10 U	10 U
2-Methylnaphthalene	NS	NS	10 U	10 U
2-Methylphenol (O-Cresol)	0.33	100	10 U	10 U
2-Nitroaniline	NS	NS	10 U	10 U
2-Nitrophenol	NS	NS	10 U	10 U
3,3'-Dichlorobenzidine	NS	NS	10 U	10 U
3-Nitroaniline	NS	NS	10 U	10 U
4,6-Dinitro-2-Methylphenol	NS	NS	20 U	20 U
4-Bromophenyl Phenyl Ether	NS	NS	10 U	10 U
4-Chloro-3-Methylphenol	NS	NS	10 U	10 U
4-Chloroaniline	NS	NS	10 U	10 U
4-Chlorophenyl Phenyl Ether	NS	NS	10 U	10 U
4-Methylphenol (P-Cresol)	0.33	100	10 U	10 U
4-Nitroaniline	NS	NS	10 U	10 U
4-Nitrophenol	NS	NS	20 UJ	20 U
Acenaphthene	20	100	10 U	10 U
Acenaphthylene	100	100	10 U	10 U
Acetophenone	NS	NS	10 U	10 U
Anthracene	100	100	10 U	10 U
Atrazine	NS	NS	2 U	2 U
Benzaldehyde	NS	NS	10 U	10 U
Benzo(a)Anthracene	1	1	1 U	1 U
Benzo(a)Pyrene	1	1	1 U	1 U
Benzo(b)Fluoranthene	1	1	2 U	2 U
Benzo(g,h,i)Perylene	100	100	10 U	10 UJ
Benzo(k)Fluoranthene	0.8	3.9	1 U	1 U
Benzyl Butyl Phthalate	NS	NS	10 UJ	10 U
Biphenyl (Diphenyl)	NS	NS	10 U	10 U
Bis(2-Chloroethoxy) Methane	NS	NS	10 U	10 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	1 U	1 UJ
Bis(2-Chloroisopropyl) Ether	NS	NS	10 U	10 UJ
Bis(2-Ethylhexyl) Phthalate	NS	NS	2 U	2 U
Caprolactam	NS	NS	10 U	10 U
Carbazole	NS	NS	10 U	10 U
Chrysene	1	3.9	2 U	2 U
Dibenz(a,h)Anthracene	0.33	0.33	1 U	1 UJ
Dibenzofuran	7	59	10 U	10 U
Diethyl Phthalate	NS	NS	10 U	10 U
Dimethyl Phthalate	NS	NS	10 U	10 U
Di-N-Butyl Phthalate	NS	NS	10 U	10 U
Di-N-Octylphthalate	NS	NS	10 U	10 U
Fluoranthene	100	100	10 U	10 U
Fluorene	30	100	10 U	10 U
Hexachlorobenzene	0.33	1.2	1 U	1 U
Hexachlorobutadiene	NS	NS	1 U	1 UJ
Hexachlorocyclopentadiene	NS	NS	10 U	10 U
Hexachloroethane	NS	NS	2 UJ	2 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	2 U	2 UJ
Isophorone	NS	NS	10 U	10 U
Naphthalene	12	100	10 U	10 U
Nitrobenzene	NS	NS	1 U	1 U
N-Nitrosodi-N-Propylamine	NS	NS	1 U	1 U
N-Nitrosodiphenylamine	NS	NS	10 U	10 U
Pentachlorophenol	0.8	6.7	20 U	20 U
Phenanthrene	100	100	10 U	10 U
Phenol	0.33	100	10 U	10 U
Pyrene	100	100	10 UJ	10 U

Attached Table 8
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - PCBs and Pesticides

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-01_20190225 2.72 460-176028-1 2/25/2019 7:50:00 AM mg/kg	EP-02_20190225 2.19 460-176028-2 2/25/2019 8:00:00 AM mg/kg	EP-X01_20190225 2.19 460-176028-8 2/25/2019 9:30:00 AM mg/kg	EP-03_20190225 2.53 460-176028-3 2/25/2019 8:20:00 AM mg/kg
PCBs	**mg/kg**	**mg/kg**				
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.074 U	0.075 U	0.074 U	0.072 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.074 U	0.075 U	0.074 U	0.072 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.074 U	0.075 U	0.074 U	0.072 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.074 U	0.075 U	0.074 U	0.072 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.074 U	0.075 U	0.074 U	0.072 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.074 U	0.075 U	0.074 U	0.072 U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.074 U	0.075 U	0.074 U	0.072 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.074 U	0.075 U	0.074 U	0.072 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.074 U	0.075 U	0.074 U	0.072 U
Total PCBs	**0.1**	**1**	0.074 U	0.075 U	0.074 U	0.072 U
Pesticides	**mg/kg**	**mg/kg**				
Aldrin	**0.005**	**0.097**	0.0074 U	0.0075 U	0.0074 U	0.0072 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.48**	0.0022 U	0.0022 U	0.0022 U	0.0022 U
Alpha Endosulfan	**NS**	**NS**	0.0074 U	0.0075 U	0.0074 U	0.0072 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.36**	0.0022 U	0.0022 U	0.0022 U	0.0022 U
Beta Endosulfan	**NS**	**NS**	0.0074 U	0.0075 U	0.0074 U	0.0072 U
Chlordane, Total	**NS**	**NS**	0.074 U	0.075 U	0.074 U	0.072 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0022 U	0.0022 U	0.0022 U	0.0022 U
Dieldrin	**0.005**	**0.2**	0.0022 U	0.0022 U	0.0022 U	0.0022 U
Endosulfan Sulfate	**NS**	**NS**	0.0074 U	0.0075 U	0.0074 U	0.0072 U
Endrin	**0.014**	**11**	0.0074 U	0.0075 U	0.0074 U	0.0072 U
Endrin Aldehyde	**NS**	**NS**	0.0074 U	0.0075 U	0.0074 U	0.0072 U
Endrin Ketone	**NS**	**NS**	0.0074 U	0.0075 U	0.0074 U	0.0072 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0022 U	0.0022 U	0.0022 U	0.0022 U
Heptachlor	**0.042**	**2.1**	0.0074 U	0.0075 U	0.0074 U	0.0072 U
Heptachlor Epoxide	**NS**	**NS**	0.0074 U	0.0075 U	0.0074 U	0.0072 U
Methoxychlor	**NS**	**NS**	0.0074 U	0.0075 U	0.0074 U	0.0072 U
P,P'-DDD	**0.0033**	**13**	0.0074 U	0.0075 U	0.0074 U	0.0072 U
P,P'-DDE	**0.0033**	**8.9**	0.0074 U	0.0075 U	0.0074 U	0.0072 U
P,P'-DDT	**0.0033**	**7.9**	0.0074 U	0.0075 U	0.0074 U	0.0072 U
Toxaphene	**NS**	**NS**	0.074 U	0.075 U	0.074 U	0.072 U

Attached Table 8
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - PCBs and Pesticides

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-04_20190225 2.71 460-176028-4 2/25/2019 8:30:00 AM mg/kg	EP-05_20190225 2.59 460-176028-5 2/25/2019 9:00:00 AM mg/kg	EP-06_20190225 2.66 460-176028-6 2/25/2019 8:45:00 AM mg/kg	EP-07_20190225 2.35 460-176028-7 2/25/2019 9:05:00 AM mg/kg
PCBs	**mg/kg**	**mg/kg**				
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.074 U	0.076 U	0.072 U	0.077 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.074 U	0.076 U	0.072 U	0.077 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.074 U	0.076 U	0.072 U	0.077 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.074 U	0.076 U	0.072 U	0.077 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.074 U	0.076 U	0.072 U	0.077 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.074 U	0.076 U	0.072 U	0.077 U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.074 U	0.076 U	0.072 U	0.077 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.074 U	0.076 U	0.072 U	0.077 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.074 U	0.076 U	0.072 U	0.077 U
Total PCBs	**0.1**	**1**	0.074 U	0.076 U	0.072 U	0.077 U
Pesticides	**mg/kg**	**mg/kg**				
Aldrin	**0.005**	**0.097**	0.0074 U	0.0076 U	0.0072 U	0.0077 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.48**	0.0022 U	0.0023 U	0.0022 U	0.0023 U
Alpha Endosulfan	**NS**	**NS**	0.0074 U	0.0076 U	0.0072 U	0.0077 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.36**	0.0022 U	0.0023 U	0.0022 U	0.0023 U
Beta Endosulfan	**NS**	**NS**	0.0074 U	0.0076 U	0.0072 U	0.0077 U
Chlordane, Total	**NS**	**NS**	0.074 U	0.076 U	0.072 U	0.077 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0022 U	0.0023 U	0.0022 U	0.0023 U
Dieldrin	**0.005**	**0.2**	0.0022 U	0.0023 U	0.0022 U	0.0023 U
Endosulfan Sulfate	**NS**	**NS**	0.0074 U	0.0076 U	0.0072 U	0.0077 U
Endrin	**0.014**	**11**	0.0074 U	0.0076 U	0.0072 U	0.0077 U
Endrin Aldehyde	**NS**	**NS**	0.0074 U	0.0076 U	0.0072 U	0.0077 U
Endrin Ketone	**NS**	**NS**	0.0074 U	0.0076 U	0.0072 U	0.0077 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0022 U	0.0023 U	0.0022 U	0.0023 U
Heptachlor	**0.042**	**2.1**	0.0074 U	0.0076 U	0.0072 U	0.0077 U
Heptachlor Epoxide	**NS**	**NS**	0.0074 U	0.0076 U	0.0072 U	0.0077 U
Methoxychlor	**NS**	**NS**	0.0074 U	0.0076 U	0.0072 U	0.0077 U
P,P'-DDD	**0.0033**	**13**	0.0074 U	0.0076 U	0.0072 U	0.0077 U
P,P'-DDE	**0.0033**	**8.9**	0.0074 U	0.0076 U	0.0072 U	0.0077 U
P,P'-DDT	**0.0033**	**7.9**	0.0074 U	0.0076 U	0.0072 U	0.0077 U
Toxaphene	**NS**	**NS**	0.074 U	0.076 U	0.072 U	0.077 U

Attached Table 8
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - PCBs and Pesticides

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-08_20190403 12.56 460-178736-4 4/3/2019 8:00:00 AM mg/kg	EP-X02_20190403 12.56 460-178736-1 4/3/2019 11:00:00 AM mg/kg	EP-09_20190403 12.87 460-178736-5 4/3/2019 8:35:00 AM mg/kg	EP-10_20190403 11.91 460-178736-6 4/3/2019 8:45:00 AM mg/kg
PCBs	**mg/kg**	**mg/kg**				
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.078 U	0.078 U	0.08 U	0.088 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.078 U	0.078 U	0.08 U	0.088 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.078 U	0.078 U	0.08 U	0.088 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.078 U	0.078 U	0.08 U	0.088 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.078 U	0.078 U	0.08 U	0.088 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.078 U	0.078 U	0.08 U	0.088 U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.078 U	0.078 U	0.08 U	0.088 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.078 U	0.078 U	0.08 U	0.088 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.078 U	0.078 U	0.08 U	0.088 U
Total PCBs	**0.1**	**1**	0.078 U	0.078 U	0.08 U	0.088 U
Pesticides	**mg/kg**	**mg/kg**				
Aldrin	**0.005**	**0.097**	0.0078 UJ	0.0078 U	0.008 U	0.0088 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.48**	0.0023 UJ	0.0023 U	0.0024 U	0.0026 U
Alpha Endosulfan	**NS**	**NS**	0.0078 UJ	0.0078 U	0.008 U	0.0088 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.36**	0.0023 UJ	0.0023 U	0.0024 U	0.0026 U
Beta Endosulfan	**NS**	**NS**	0.0078 UJ	0.0078 U	0.008 U	0.0088 U
Chlordane, Total	**NS**	**NS**	0.078 U	0.078 U	0.08 U	0.088 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0023 UJ	0.0023 U	0.0024 U	0.0026 U
Dieldrin	**0.005**	**0.2**	0.0023 UJ	0.0023 U	0.0024 U	0.0026 U
Endosulfan Sulfate	**NS**	**NS**	0.0078 UJ	0.0078 U	0.008 U	0.0088 U
Endrin	**0.014**	**11**	0.0078 UJ	0.0078 U	0.008 U	0.0088 U
Endrin Aldehyde	**NS**	**NS**	0.0078 UJ	0.0078 U	0.008 U	0.0088 U
Endrin Ketone	**NS**	**NS**	0.0078 UJ	0.0078 U	0.008 U	0.0088 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0023 UJ	0.0023 U	0.0024 U	0.0026 U
Heptachlor	**0.042**	**2.1**	0.0078 UJ	0.0078 U	0.008 U	0.0088 U
Heptachlor Epoxide	**NS**	**NS**	0.0078 UJ	0.0078 U	0.008 U	0.0088 U
Methoxychlor	**NS**	**NS**	0.0078 UJ	0.0078 U	0.008 U	0.0088 U
P,P'-DDD	**0.0033**	**13**	0.0078 UJ	0.0078 U	0.008 U	0.0088 U
P,P'-DDE	**0.0033**	**8.9**	0.0078 UJ	0.0078 U	0.008 U	0.0088 U
P,P'-DDT	**0.0033**	**7.9**	0.0078 UJ	0.0078 U	0.008 U	0.0088 U
Toxaphene	**NS**	**NS**	0.078 U	0.078 U	0.08 U	0.088 U

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Site Endpoint Samples - PCBs and Pesticides

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-11_20190403 13.05 460-178736-7 4/3/2019 9:15:00 AM mg/kg	EP-12_20190403 13.37 460-178736-8 4/3/2019 9:45:00 AM mg/kg	EP-13_20190403 12.35 460-178736-9 4/3/2019 10:00:00 AM mg/kg	EP-14_20190403 12.82 460-178736-10 4/3/2019 10:10:00 AM mg/kg
PCBs	**mg/kg**	**mg/kg**				
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.091 U	0.08 U	0.081 U	0.082 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.091 U	0.08 U	0.081 U	0.082 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.091 U	0.08 U	0.081 U	0.082 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.091 U	0.08 U	0.081 U	0.082 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.091 U	0.08 U	0.081 U	0.082 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.091 U	0.08 U	0.081 U	0.082 U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.091 U	0.08 U	0.081 U	0.082 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.091 U	0.08 U	0.081 U	0.082 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.091 U	0.08 U	0.081 U	0.082 U
Total PCBs	**0.1**	**1**	0.091 U	0.08 U	0.081 U	0.082 U
Pesticides	**mg/kg**	**mg/kg**				
Aldrin	**0.005**	**0.097**	0.0091 U	0.008 U	0.0081 U	0.0082 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.48**	0.0027 U	0.0024 U	0.0024 U	0.0024 U
Alpha Endosulfan	**NS**	**NS**	0.0091 U	0.008 U	0.0081 U	0.0082 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.36**	0.0027 U	0.0024 U	0.0024 U	0.0024 U
Beta Endosulfan	**NS**	**NS**	0.0091 U	0.008 U	0.0081 U	0.0082 U
Chlordane, Total	**NS**	**NS**	0.091 U	0.08 U	0.081 U	0.082 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0027 U	0.0024 U	0.0024 U	0.0024 U
Dieldrin	**0.005**	**0.2**	0.0027 U	0.0024 U	0.0024 U	0.0024 U
Endosulfan Sulfate	**NS**	**NS**	0.0091 U	0.008 U	0.0081 U	0.0082 U
Endrin	**0.014**	**11**	0.0091 U	0.008 U	0.0081 U	0.0082 U
Endrin Aldehyde	**NS**	**NS**	0.0091 U	0.008 U	0.0081 U	0.0082 U
Endrin Ketone	**NS**	**NS**	0.0091 U	0.008 U	0.0081 U	0.0082 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0027 U	0.0024 U	0.0024 U	0.0024 U
Heptachlor	**0.042**	**2.1**	0.0091 U	0.008 U	0.0081 U	0.0082 U
Heptachlor Epoxide	**NS**	**NS**	0.0091 U	0.008 U	0.0081 U	0.0082 U
Methoxychlor	**NS**	**NS**	0.0091 U	0.008 U	0.0081 U	0.0082 U
P,P'-DDD	**0.0033**	**13**	0.0091 U	0.008 U	0.0081 U	0.0082 U
P,P'-DDE	**0.0033**	**8.9**	0.0091 U	0.008 U	0.0081 U	0.0082 U
P,P'-DDT	**0.0033**	**7.9**	0.0091 U	0.008 U	0.0081 U	0.0082 U
Toxaphene	**NS**	**NS**	0.091 U	0.08 U	0.081 U	0.082 U

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AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-15_20190403 13.46 460-178736-11 4/3/2019 10:30:00 AM mg/kg	EP-16_20190403 13.36 460-178736-12 4/3/2019 1:00:00 PM mg/kg	EP-17_20190403 12.37 460-178736-13 4/3/2019 1:15:00 PM mg/kg	EP-18_20190403 14.20 460-178736-14 4/3/2019 1:45:00 PM mg/kg
PCBs	**mg/kg**	**mg/kg**				
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.087 U	0.075 U	0.076 U	0.073 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.087 U	0.075 U	0.076 U	0.073 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.087 U	0.075 U	0.076 U	0.073 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.087 U	0.075 U	0.076 U	0.073 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.087 U	0.075 U	0.076 U	0.073 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.087 U	0.075 U	0.076 U	0.073 U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.087 U	0.075 U	0.076 U	0.073 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.087 U	0.075 U	0.076 U	0.073 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.087 U	0.075 U	0.076 U	0.073 U
Total PCBs	**0.1**	**1**	0.087 U	0.075 U	0.076 U	0.073 U
Pesticides	**mg/kg**	**mg/kg**				
Aldrin	**0.005**	**0.097**	0.0087 U	0.0075 U	0.0076 U	0.0073 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.48**	0.0026 U	0.0022 U	0.0023 U	0.0022 U
Alpha Endosulfan	**NS**	**NS**	0.0087 U	0.0075 U	0.0076 U	0.0073 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.36**	0.0026 U	0.0022 U	0.0023 U	0.0022 U
Beta Endosulfan	**NS**	**NS**	0.0087 U	0.0075 U	0.0076 U	0.0073 U
Chlordane, Total	**NS**	**NS**	0.087 U	0.075 U	0.076 U	0.073 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0026 U	0.0022 U	0.0023 U	0.0022 U
Dieldrin	**0.005**	**0.2**	0.0026 U	0.0022 U	0.0023 U	0.0022 U
Endosulfan Sulfate	**NS**	**NS**	0.0087 U	0.0075 U	0.0076 U	0.0073 U
Endrin	**0.014**	**11**	0.0087 U	0.0075 U	0.0076 U	0.0073 U
Endrin Aldehyde	**NS**	**NS**	0.0087 U	0.0075 U	0.0076 U	0.0073 U
Endrin Ketone	**NS**	**NS**	0.0087 U	0.0075 U	0.0076 U	0.0073 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0026 U	0.0022 U	0.0023 U	0.0022 U
Heptachlor	**0.042**	**2.1**	0.0087 U	0.0075 U	0.0076 U	0.0073 U
Heptachlor Epoxide	**NS**	**NS**	0.0087 U	0.0075 U	0.0076 U	0.0073 U
Methoxychlor	**NS**	**NS**	0.0087 U	0.0075 U	0.0076 U	0.0073 U
P,P'-DDD	**0.0033**	**13**	0.0087 U	0.0075 U	0.0076 U	0.0073 U
P,P'-DDE	**0.0033**	**8.9**	0.0087 U	0.0075 U	0.0076 U	0.0073 U
P,P'-DDT	**0.0033**	**7.9**	0.0087 U	0.0075 U	0.0076 U	0.0073 U
Toxaphene	**NS**	**NS**	0.087 U	0.075 U	0.076 U	0.073 U

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AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-19_20190403 13.94 460-178736-15 4/3/2019 2:00:00 PM mg/kg	EP-20_20190403 13.51 460-178736-16 4/3/2019 2:15:00 PM mg/kg	EP-21_20190429 11.98 460-180693-1 4/29/2019 10:05:00 AM mg/kg	EP-X03_20190429 12.70 460-180693-3 4/29/2019 10:10:00 AM mg/kg
PCBs	**mg/kg**	**mg/kg**				
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.078 U	0.078 U	0.079 U	0.078 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.078 U	0.078 U	0.079 U	0.078 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.078 U	0.078 U	0.079 U	0.078 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.078 U	0.078 U	0.079 U	0.078 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.078 U	0.078 U	0.079 U	0.078 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.078 U	0.078 U	0.079 U	0.078 U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.078 U	0.078 U	0.079 U	0.078 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.078 U	0.078 U	0.079 U	0.078 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.078 U	0.078 U	0.079 U	0.078 U
Total PCBs	**0.1**	**1**	0.078 U	0.078 U	0.079 U	0.078 U
Pesticides	**mg/kg**	**mg/kg**				
Aldrin	**0.005**	**0.097**	0.0078 U	0.0078 U	0.0079 U	0.0078 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.48**	0.0023 U	0.0023 U	0.0023 U	0.0023 U
Alpha Endosulfan	**NS**	**NS**	0.0078 U	0.0078 U	0.0079 U	0.0078 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.36**	0.0023 U	0.0023 U	0.0023 U	0.0023 U
Beta Endosulfan	**NS**	**NS**	0.0078 U	0.0078 U	0.0079 U	0.0078 U
Chlordane, Total	**NS**	**NS**	0.078 U	0.078 U	0.079 U	0.078 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0023 U	0.0023 U	0.0023 U	0.0023 U
Dieldrin	**0.005**	**0.2**	0.0023 U	0.0023 U	0.0023 U	0.0023 U
Endosulfan Sulfate	**NS**	**NS**	0.0078 U	0.0078 U	0.0079 U	0.0078 U
Endrin	**0.014**	**11**	0.0078 U	0.0078 U	0.0079 U	0.0078 U
Endrin Aldehyde	**NS**	**NS**	0.0078 U	0.0078 U	0.0079 UJ	0.0078 U
Endrin Ketone	**NS**	**NS**	0.0078 U	0.0078 U	0.0079 U	0.0078 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0023 U	0.0023 U	0.0023 U	0.0023 U
Heptachlor	**0.042**	**2.1**	0.0078 U	0.0078 U	0.0079 U	0.0078 U
Heptachlor Epoxide	**NS**	**NS**	0.0078 U	0.0078 U	0.0079 U	0.0078 U
Methoxychlor	**NS**	**NS**	0.0078 U	0.0078 U	0.0079 U	0.0078 U
P,P'-DDD	**0.0033**	**13**	0.0078 U	0.0078 U	0.0079 U	0.0078 U
P,P'-DDE	**0.0033**	**8.9**	0.0078 U	0.0078 U	0.0079 U	0.0078 U
P,P'-DDT	**0.0033**	**7.9**	0.0078 U	0.0078 U	0.0079 U	0.0078 U
Toxaphene	**NS**	**NS**	0.078 U	0.078 U	0.079 U	0.078 U

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Site Endpoint Samples - PCBs and Pesticides

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-22_20190429 12.70 460-180693-2 4/29/2019 10:15:00 AM mg/kg	EP-23_20190701 16.45 460-185721-1 7/1/2019 12:35:00 PM mg/kg	EP-24_20190701 15.93 460-185721-2 7/1/2019 12:45:00 PM mg/kg	EP-X04_20190701 15.93 460-185721-3 7/1/2019 12:55:00 PM mg/kg
PCBs	**mg/kg**	**mg/kg**				
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.078 U	0.076 U	0.074 U	0.076 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.078 U	0.076 U	0.074 U	0.076 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.078 U	0.076 U	0.074 U	0.076 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.078 U	0.076 U	0.074 U	0.076 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.078 U	0.076 U	0.074 U	0.076 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.078 U	0.076 U	0.074 U	0.076 U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.078 U	0.076 U	0.074 U	0.076 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.078 U	0.076 U	0.074 U	0.076 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.078 U	0.076 U	0.074 U	0.076 U
Total PCBs	**0.1**	**1**	0.078 U	0.076 U	0.074 U	0.076 U
Pesticides	**mg/kg**	**mg/kg**				
Aldrin	**0.005**	**0.097**	0.0078 U	0.0076 U	0.0074 U	0.0076 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.48**	0.0023 U	0.0023 U	0.0022 U	0.0023 U
Alpha Endosulfan	**NS**	**NS**	0.0078 U	0.0076 U	0.0074 U	0.0076 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.36**	0.0023 U	0.0023 U	0.0022 U	0.0023 U
Beta Endosulfan	**NS**	**NS**	0.0078 U	0.0076 U	0.0074 U	0.0076 U
Chlordane, Total	**NS**	**NS**	0.078 U	0.064 J	0.062 J	0.05 J
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.0023 U	0.0023 U	0.0022 U	0.0023 U
Dieldrin	**0.005**	**0.2**	0.0023 U	0.0023 U	0.0023	0.0023 U
Endosulfan Sulfate	**NS**	**NS**	0.0078 U	0.0076 U	0.0074 UJ	0.0076 UJ
Endrin	**0.014**	**11**	0.0078 U	0.0076 U	0.0074 U	0.0076 U
Endrin Aldehyde	**NS**	**NS**	0.0078 U	0.0076 U	0.0074 UJ	0.0076 UJ
Endrin Ketone	**NS**	**NS**	0.0078 U	0.0076 U	0.0074 U	0.0076 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.0023 U	0.0023 U	0.0022 U	0.0023 U
Heptachlor	**0.042**	**2.1**	0.0078 U	0.0076 U	0.0074 U	0.0076 U
Heptachlor Epoxide	**NS**	**NS**	0.0078 U	0.0076 U	0.0074 U	0.0076 U
Methoxychlor	**NS**	**NS**	0.0078 U	0.0076 U	0.0074 U	0.0076 U
P,P'-DDD	**0.0033**	**13**	0.0078 U	0.0076 U	0.0074 U	0.0076 U
P,P'-DDE	**0.0033**	**8.9**	0.0078 U	0.0031 J	**0.005 J**	**0.0054 J**
P,P'-DDT	**0.0033**	**7.9**	0.0078 U	0.0024 J	0.0025 J	0.0026 J
Toxaphene	**NS**	**NS**	0.078 U	0.076 U	0.074 U	0.076 U

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Brooklyn, New York
Site Endpoint Samples - PCBs and Pesticides

AKRF Sample ID Sample Elevation (NAVD 88) Laboratory Sample ID Date Sampled Unit	NYSDEC UUSCO	NYSDEC RRSCO	EP-FB-01_20190225 N/A 460-176028-9 2/25/2019 9:50:00 AM ug/L	EP-FB-02_20190403 N/A 460-178736-2 4/3/2019 12:00:00 PM ug/L	EP-FB-03_20190429 N/A 460-180693-4 4/29/2019 11:40:00 AM ug/L	EP-FB-04_20190701 N/A 460-185721-4 7/1/2019 1:05:00 PM ug/L
PCBs	**mg/kg**	**mg/kg**				
PCB-1016 (Aroclor 1016)	**NS**	**NS**	0.4 U	0.4 U	0.4 U	0.4 U
PCB-1221 (Aroclor 1221)	**NS**	**NS**	0.4 U	0.4 U	0.4 U	0.4 U
PCB-1232 (Aroclor 1232)	**NS**	**NS**	0.4 U	0.4 U	0.4 U	0.4 U
PCB-1242 (Aroclor 1242)	**NS**	**NS**	0.4 U	0.4 U	0.4 U	0.4 U
PCB-1248 (Aroclor 1248)	**NS**	**NS**	0.4 U	0.4 U	0.4 U	0.4 U
PCB-1254 (Aroclor 1254)	**NS**	**NS**	0.4 U	0.4 U	0.4 U	0.4 U
PCB-1260 (Aroclor 1260)	**NS**	**NS**	0.4 U	0.4 U	0.4 U	0.4 U
PCB-1262 (Aroclor 1262)	**NS**	**NS**	0.4 U	0.4 U	0.4 U	0.4 U
PCB-1268 (Aroclor 1268)	**NS**	**NS**	0.4 U	0.4 U	0.4 U	0.4 U
Total PCBs	**0.1**	**1**	0.4 U	0.4 U	0.4 U	0.4 U
Pesticides	**mg/kg**	**mg/kg**				
Aldrin	**0.005**	**0.097**	0.02 U	0.02 U	0.02 U	0.02 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	**0.02**	**0.48**	0.02 U	0.02 U	0.02 U	0.02 U
Alpha Endosulfan	**NS**	**NS**	0.02 U	0.02 U	0.02 U	0.02 U
Beta Bhc (Beta Hexachlorocyclohexane)	**0.036**	**0.36**	0.02 U	0.02 U	0.02 U	0.02 U
Beta Endosulfan	**NS**	**NS**	0.02 U	0.02 U	0.02 U	0.02 U
Chlordane, Total	**NS**	**NS**	0.5 U	0.5 U	0.5 U	0.5 U
Delta BHC (Delta Hexachlorocyclohexane)	**0.04**	**100**	0.02 U	0.02 U	0.02 U	0.02 U
Dieldrin	**0.005**	**0.2**	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan Sulfate	**NS**	**NS**	0.02 U	0.02 U	0.02 U	0.02 U
Endrin	**0.014**	**11**	0.02 U	0.02 U	0.02 U	0.02 U
Endrin Aldehyde	**NS**	**NS**	0.02 U	0.02 U	0.02 U	0.02 U
Endrin Ketone	**NS**	**NS**	0.02 U	0.02 U	0.02 U	0.02 U
Gamma Bhc (Lindane)	**0.1**	**1.3**	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor	**0.042**	**2.1**	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor Epoxide	**NS**	**NS**	0.02 U	0.02 U	0.02 U	0.02 U
Methoxychlor	**NS**	**NS**	0.02 U	0.02 U	0.02 U	0.02 U
P,P'-DDD	**0.0033**	**13**	0.02 U	0.02 U	0.02 U	0.02 U
P,P'-DDE	**0.0033**	**8.9**	0.02 U	0.02 U	0.02 U	0.02 U
P,P'-DDT	**0.0033**	**7.9**	0.02 U	**0.069**	0.02 U	0.02 U
Toxaphene	**NS**	**NS**	0.5 U	0.5 U	0.5 U	0.5 U

Attached Table 9
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - Metals

AKRF Sample ID Sample Elevation (NAV Laboratory Sample ID Date Sampled Unit Dilution Factor	NYSDEC UUSCO	NYSDEC RRSCO	EP-01_20190225 2.72 460-176028-1 2/25/2019 7:50:00 AM mg/kg 1	EP-01_20190225 2.72 460-176028-1 2/25/2019 7:50:00 AM mg/kg 4	EP-02_20190225 2.19 460-176028-2 2/25/2019 8:00:00 AM mg/kg 1	EP-02_20190225 2.19 460-176028-2 2/25/2019 8:00:00 AM mg/kg 4	EP-X01_20190225 2.19 460-176028-8 2/25/2019 9:30:00 AM mg/kg 1
Aluminum	**NS**	**NS**	NR	4690	NR	7220 J	NR
Antimony	**NS**	**NS**	NR	4.1 U	NR	4.3 UJ	NR
Arsenic	**13**	**16**	NR	2.4 J	NR	3.7 J	NR
Barium	**350**	**400**	NR	38.3 J	NR	37.1 J	NR
Beryllium	**7.2**	**72**	NR	0.32 J	NR	0.38 J	NR
Cadmium	**2.5**	**4.3**	NR	0.45 J	NR	0.45 J	NR
Calcium	**NS**	**NS**	NR	1580	NR	1040 J	NR
Chromium, Total	**NS**	**NS**	NR	15.7	NR	16.1	NR
Cobalt	**NS**	**NS**	NR	4.9 J	NR	7 J	NR
Copper	**50**	**270**	NR	22	NR	21.1	NR
Iron	**NS**	**NS**	NR	18500	NR	19900 JL	NR
Lead	**63**	**400**	NR	50.5	NR	47.7 JL	NR
Magnesium	**NS**	**NS**	NR	1900	NR	1640	NR
Manganese	**1600**	**2000**	NR	328	NR	364	NR
Mercury	**0.18**	**0.81**	**0.37**	NR	**0.37 JK**	NR	**0.26 J**
Nickel	**30**	**310**	NR	10	NR	11	NR
Potassium	**NS**	**NS**	NR	546 J	NR	635 J	NR
Selenium	**3.9**	**180**	NR	4.1 U	NR	4.3 U	NR
Silver	**2**	**180**	NR	2.1 U	NR	2.2 U	NR
Sodium	**NS**	**NS**	NR	1030 U	NR	1080 U	NR
Thallium	**NS**	**NS**	NR	4.1 U	NR	4.3 U	NR
Vanadium	**NS**	**NS**	NR	19.3	NR	20.8	NR
Zinc	**109**	**10000**	NR	46.4	NR	64.6 JL	NR

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AKRF Sample ID Sample Elevation (NAV Laboratory Sample ID Date Sampled Unit Dilution Factor	NYSDEC UUSCO	NYSDEC RRSCO	EP-X01_20190225 2.19 460-176028-8 2/25/2019 9:30:00 AM mg/kg 4	EP-03_20190225 2.53 460-176028-3 2/25/2019 8:20:00 AM mg/kg 1	EP-03_20190225 2.53 460-176028-3 2/25/2019 8:20:00 AM mg/kg 4	EP-04_20190225 2.71 460-176028-4 2/25/2019 8:30:00 AM mg/kg 1	EP-04_20190225 2.71 460-176028-4 2/25/2019 8:30:00 AM mg/kg 4
Aluminum	**NS**	**NS**	5220 JL	NR	5240	NR	5760
Antimony	**NS**	**NS**	4.1 UJ	NR	4.3 U	NR	4.2 U
Arsenic	**13**	**16**	2.4 JL	NR	4.4	NR	3.7
Barium	**350**	**400**	37 J	NR	49.4	NR	40 J
Beryllium	**7.2**	**72**	0.37 J	NR	0.34 J	NR	0.41 J
Cadmium	**2.5**	**4.3**	0.6 J	NR	0.54 J	NR	0.58 J
Calcium	**NS**	**NS**	970 J	NR	1460	NR	3280
Chromium, Total	**NS**	**NS**	16	NR	23	NR	17.9
Cobalt	**NS**	**NS**	5.7 J	NR	5.4 J	NR	5.2 J
Copper	**50**	**270**	17.9	NR	23.4	NR	24.7
Iron	**NS**	**NS**	26200 J	NR	23800	NR	21900
Lead	**63**	**400**	**74.2 J**	NR	61.1	NR	58.5
Magnesium	**NS**	**NS**	1370	NR	1720	NR	1640
Manganese	**1600**	**2000**	450	NR	368	NR	418
Mercury	**0.18**	**0.81**	NR	**0.3**	NR	**0.35**	NR
Nickel	**30**	**310**	10.7	NR	11	NR	10.8
Potassium	**NS**	**NS**	513 J	NR	782 J	NR	654 J
Selenium	**3.9**	**180**	4.1 U	NR	4.3 U	NR	4.2 U
Silver	**2**	**180**	2 U	NR	2.2 U	NR	2.1 U
Sodium	**NS**	**NS**	1020 U	NR	1080 U	NR	1060 U
Thallium	**NS**	**NS**	4.1 U	NR	4.3 U	NR	4.2 U
Vanadium	**NS**	**NS**	22.3	NR	26.7	NR	22.9
Zinc	**109**	**10000**	51.6 JL	NR	52.1	NR	86.5

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AKRF Sample ID			EP-05_20190225	EP-05_20190225	EP-06_20190225	EP-06_20190225	EP-07_20190225
Sample Elevation (NAV			2.59	2.59	2.66	2.66	2.35
Laboratory Sample ID	NYSDEC	NYSDEC	460-176028-5	460-176028-5	460-176028-6	460-176028-6	460-176028-7
Date Sampled	UUSCO	RRSCO	2/25/2019 9:00:00 AM	2/25/2019 9:00:00 AM	2/25/2019 8:45:00 AM	2/25/2019 8:45:00 AM	2/25/2019 9:05:00 AM
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			1	4	1	4	1
Aluminum	**NS**	**NS**	NR	4720	NR	5510	NR
Antimony	**NS**	**NS**	NR	4.4 U	NR	4 U	NR
Arsenic	**13**	**16**	NR	4.1	NR	5.5	NR
Barium	**350**	**400**	NR	53.3	NR	56.7	NR
Beryllium	**7.2**	**72**	NR	0.33 J	NR	0.34 J	NR
Cadmium	**2.5**	**4.3**	NR	0.48 J	NR	0.52 J	NR
Calcium	**NS**	**NS**	NR	1760	NR	1520	NR
Chromium, Total	**NS**	**NS**	NR	13.5	NR	15.2	NR
Cobalt	**NS**	**NS**	NR	5 J	NR	6 J	NR
Copper	**50**	**270**	NR	33.2	NR	31.8	NR
Iron	**NS**	**NS**	NR	18300	NR	18900	NR
Lead	**63**	**400**	NR	**108**	NR	**94.5**	NR
Magnesium	**NS**	**NS**	NR	1400	NR	1610	NR
Manganese	**1600**	**2000**	NR	308	NR	378	NR
Mercury	**0.18**	**0.81**	**0.58**	NR	**0.49**	NR	**0.67**
Nickel	**30**	**310**	NR	10.4	NR	11.3	NR
Potassium	**NS**	**NS**	NR	537 J	NR	685 J	NR
Selenium	**3.9**	**180**	NR	4.4 U	NR	4 U	NR
Silver	**2**	**180**	NR	2.2 U	NR	2 U	NR
Sodium	**NS**	**NS**	NR	1110 U	NR	1010 U	NR
Thallium	**NS**	**NS**	NR	4.4 U	NR	4 U	NR
Vanadium	**NS**	**NS**	NR	18.5	NR	19.3	NR
Zinc	**109**	**10000**	NR	83.7	NR	74.5	NR

Attached Table 9
New 470 Project
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Site Endpoint Samples - Metals

AKRF Sample ID	NYSDEC	NYSDEC	EP-07_20190225	EP-08_20190403	EP-08_20190403	EP-X02_20190403	EP-X02_20190403
Sample Elevation (NAV			2.35	12.56	12.56	12.56	12.56
Laboratory Sample ID			460-176028-7	460-178736-4	460-178736-4	460-178736-1	460-178736-1
Date Sampled			2/25/2019 9:05:00 AM	4/3/2019 8:00:00 AM	4/3/2019 8:00:00 AM	4/3/2019 11:00:00 AM	4/3/2019 11:00:00 AM
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			4	4	5	3	4
Aluminum	**NS**	**NS**	5300	7490	NR	NR	7160
Antimony	**NS**	**NS**	4.3 U	3.8 UJ	NR	NR	3.6 U
Arsenic	**13**	**16**	5.6	7.5	NR	NR	6.8
Barium	**350**	**400**	74.2	123	NR	NR	127
Beryllium	**7.2**	**72**	0.37 J	0.48	NR	NR	0.55
Cadmium	**2.5**	**4.3**	0.59 J	0.76 U	NR	NR	0.12 J
Calcium	**NS**	**NS**	2620	9850	NR	NR	9950
Chromium, Total	**NS**	**NS**	14.8	20.7	NR	NR	20.3
Cobalt	**NS**	**NS**	5.3 J	6.6 J	NR	NR	6.4 J
Copper	**50**	**270**	36.6	**98.1**	NR	NR	**110**
Iron	**NS**	**NS**	20700	22400	NR	NR	20100
Lead	**63**	**400**	**284**	**328**	NR	NR	**283**
Magnesium	**NS**	**NS**	1580	2190	NR	NR	2240
Manganese	**1600**	**2000**	358	343	NR	NR	329
Mercury	**0.18**	**0.81**	NR	NR	**1.9**	**1.5**	NR
Nickel	**30**	**310**	11.6	16	NR	NR	15.9
Potassium	**NS**	**NS**	623 J	1000	NR	NR	933
Selenium	**3.9**	**180**	4.3 U	3.8 U	NR	NR	3.6 U
Silver	**2**	**180**	2.1 U	0.49 J	NR	NR	0.85 J
Sodium	**NS**	**NS**	103 J	147 J	NR	NR	154 J
Thallium	**NS**	**NS**	4.3 U	3.8 U	NR	NR	3.6 U
Vanadium	**NS**	**NS**	19.5	25.4	NR	NR	23.4
Zinc	**109**	**10000**	100	**195**	NR	NR	**257**

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AKRF Sample ID			EP-09_20190403	EP-09_20190403	EP-10_20190403	EP-10_20190403	EP-11_20190403
Sample Elevation (NAV			12.87	12.87	11.91	11.91	13.05
Laboratory Sample ID	NYSDEC	NYSDEC	460-178736-5	460-178736-5	460-178736-6	460-178736-6	460-178736-7
Date Sampled	UUSCO	RRSCO	4/3/2019 8:35:00 AM	4/3/2019 8:35:00 AM	4/3/2019 8:45:00 AM	4/3/2019 8:45:00 AM	4/3/2019 9:15:00 AM
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			3	4	1	4	3
Aluminum	**NS**	**NS**	NR	7390	NR	8420	NR
Antimony	**NS**	**NS**	NR	3.8 U	NR	3.9 U	NR
Arsenic	**13**	**16**	NR	5.5	NR	5	NR
Barium	**350**	**400**	NR	102	NR	95.6	NR
Beryllium	**7.2**	**72**	NR	0.43	NR	0.48	NR
Cadmium	**2.5**	**4.3**	NR	0.76 U	NR	0.78 U	NR
Calcium	**NS**	**NS**	NR	6140	NR	8350	NR
Chromium, Total	**NS**	**NS**	NR	18.9	NR	19.1	NR
Cobalt	**NS**	**NS**	NR	6.4 J	NR	6.5 J	NR
Copper	**50**	**270**	NR	**88**	NR	**57.4**	NR
Iron	**NS**	**NS**	NR	19800	NR	19600	NR
Lead	**63**	**400**	NR	**270**	NR	**178**	NR
Magnesium	**NS**	**NS**	NR	2030	NR	2480	NR
Manganese	**1600**	**2000**	NR	303	NR	355	NR
Mercury	**0.18**	**0.81**	**1.5**	NR	**0.45**	NR	**1.1**
Nickel	**30**	**310**	NR	15.4	NR	15.5	NR
Potassium	**NS**	**NS**	NR	851 J	NR	1110	NR
Selenium	**3.9**	**180**	NR	3.8 U	NR	3.9 U	NR
Silver	**2**	**180**	NR	0.6 J	NR	0.43 J	NR
Sodium	**NS**	**NS**	NR	111 J	NR	160 J	NR
Thallium	**NS**	**NS**	NR	3.8 U	NR	3.9 U	NR
Vanadium	**NS**	**NS**	NR	24.9	NR	25.1	NR
Zinc	**109**	**10000**	NR	**164**	NR	**140**	NR

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AKRF Sample ID			EP-11_20190403	EP-12_20190403	EP-12_20190403	EP-13_20190403	EP-13_20190403
Sample Elevation (NAV			13.05	13.37	13.37	12.35	12.35
Laboratory Sample ID	NYSDEC	NYSDEC	460-178736-7	460-178736-8	460-178736-8	460-178736-9	460-178736-9
Date Sampled	UUSCO	RRSCO	4/3/2019 9:15:00 AM	4/3/2019 9:45:00 AM	4/3/2019 9:45:00 AM	4/3/2019 10:00:00 AM	4/3/2019 10:00:00 AM
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			4	4	6	4	6
Aluminum	NS	NS	8380	7050	NR	7150	NR
Antimony	NS	NS	4.3 U	3.7 U	NR	2.6 J	NR
Arsenic	13	16	6.4	12.9	NR	**43.5**	NR
Barium	350	400	109	147	NR	283	NR
Beryllium	7.2	72	0.46	0.47	NR	0.48	NR
Cadmium	2.5	4.3	0.85 U	0.55 J	NR	0.38 J	NR
Calcium	NS	NS	16200	15900	NR	6620	NR
Chromium, Total	NS	NS	20.5	21.3	NR	39.2	NR
Cobalt	NS	NS	7.4 J	6.7 J	NR	11.6	NR
Copper	50	270	**226**	**265**	NR	**358**	NR
Iron	NS	NS	24600	19800	NR	41300	NR
Lead	63	400	**237**	**556**	NR	**849**	NR
Magnesium	NS	NS	2770	2070	NR	2240	NR
Manganese	1600	2000	376	356	NR	348	NR
Mercury	0.18	0.81	NR	NR	**3.7**	NR	**3.8**
Nickel	30	310	17.7	15.4	NR	**30.1**	NR
Potassium	NS	NS	995 J	1020	NR	1040	NR
Selenium	3.9	180	4.3 U	3.7 U	NR	3.7 U	NR
Silver	2	180	0.64 J	0.63 J	NR	1.3 J	NR
Sodium	NS	NS	131 J	208 J	NR	245 J	NR
Thallium	NS	NS	4.3 U	3.7 U	NR	3.7 U	NR
Vanadium	NS	NS	23.3	25.8	NR	25	NR
Zinc	109	10000	**231**	**457**	NR	**580**	NR

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AKRF Sample ID			EP-14_20190403	EP-14_20190403	EP-15_20190403	EP-15_20190403	EP-16_20190403
Sample Elevation (NAV			12.82	12.82	13.46	13.46	13.36
Laboratory Sample ID	NYSDEC	NYSDEC	460-178736-10	460-178736-10	460-178736-11	460-178736-11	460-178736-12
Date Sampled	UUSCO	RRSCO	4/3/2019 10:10:00 AM	4/3/2019 10:10:00 AM	4/3/2019 10:30:00 AM	4/3/2019 10:30:00 AM	4/3/2019 1:00:00 PM
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			4	6	4	15	1
Aluminum	**NS**	**NS**	4680	NR	6080	NR	NR
Antimony	**NS**	**NS**	1.3 J	NR	1.2 J	NR	NR
Arsenic	**13**	**16**	10.6	NR	**15.7**	NR	NR
Barium	**350**	**400**	124	NR	163	NR	NR
Beryllium	**7.2**	**72**	0.32 J	NR	0.42 J	NR	NR
Cadmium	**2.5**	**4.3**	0.28 J	NR	0.7 J	NR	NR
Calcium	**NS**	**NS**	6530	NR	9610	NR	NR
Chromium, Total	**NS**	**NS**	15.8	NR	22.2	NR	NR
Cobalt	**NS**	**NS**	4.9 J	NR	6.5 J	NR	NR
Copper	**50**	**270**	**222**	NR	**288**	NR	NR
Iron	**NS**	**NS**	18200	NR	19600	NR	NR
Lead	**63**	**400**	**354**	NR	**468**	NR	NR
Magnesium	**NS**	**NS**	1330	NR	1890	NR	NR
Manganese	**1600**	**2000**	216	NR	285	NR	NR
Mercury	**0.18**	**0.81**	NR	**4**	NR	**8.9**	**0.64**
Nickel	**30**	**310**	13	NR	17.2	NR	NR
Potassium	**NS**	**NS**	715 J	NR	915 J	NR	NR
Selenium	**3.9**	**180**	4 U	NR	4.3 U	NR	NR
Silver	**2**	**180**	0.45 J	NR	0.48 J	NR	NR
Sodium	**NS**	**NS**	157 J	NR	182 J	NR	NR
Thallium	**NS**	**NS**	4 U	NR	4.3 U	NR	NR
Vanadium	**NS**	**NS**	18.2	NR	21.9	NR	NR
Zinc	**109**	**10000**	**399**	NR	**908**	NR	NR

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AKRF Sample ID			EP-16_20190403	EP-17_20190403	EP-17_20190403	EP-18_20190403	EP-18_20190403
Sample Elevation (NAV			13.36	12.37	12.37	14.20	14.20
Laboratory Sample ID	NYSDEC	NYSDEC	460-178736-12	460-178736-13	460-178736-13	460-178736-14	460-178736-14
Date Sampled	UUSCO	RRSCO	4/3/2019 1:00:00 PM	4/3/2019 1:15:00 PM	4/3/2019 1:15:00 PM	4/3/2019 1:45:00 PM	4/3/2019 1:45:00 PM
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			4	4	15	4	5
Aluminum	**NS**	**NS**	5110	5850	NR	6390	NR
Antimony	**NS**	**NS**	3.2 U	1 J	NR	3.3 U	NR
Arsenic	**13**	**16**	4.5	**13.4**	NR	10.7	NR
Barium	**350**	**400**	62.2	240	NR	108	NR
Beryllium	**7.2**	**72**	0.34	0.42	NR	0.42	NR
Cadmium	**2.5**	**4.3**	0.65 U	0.69 U	NR	0.67 U	NR
Calcium	**NS**	**NS**	1910	6400	NR	7550	NR
Chromium, Total	**NS**	**NS**	14.3	19.2	NR	18.6	NR
Cobalt	**NS**	**NS**	4.8 J	7.1 J	NR	5.7 J	NR
Copper	**50**	**270**	43.8	**269**	NR	**155**	NR
Iron	**NS**	**NS**	18500	27400	NR	22000	NR
Lead	**63**	**400**	**103**	**429**	NR	**528**	NR
Magnesium	**NS**	**NS**	1590	2070	NR	2920	NR
Manganese	**1600**	**2000**	358	338	NR	309	NR
Mercury	**0.18**	**0.81**	NR	NR	**6.5**	NR	**2.5**
Nickel	**30**	**310**	11.9	16.8	NR	13.5	NR
Potassium	**NS**	**NS**	615 J	968	NR	946	NR
Selenium	**3.9**	**180**	3.2 U	3.4 U	NR	3.3 U	NR
Silver	**2**	**180**	0.4 J	0.63 J	NR	0.43 J	NR
Sodium	**NS**	**NS**	86.7 J	257 J	NR	169 J	NR
Thallium	**NS**	**NS**	3.2 U	3.4 U	NR	3.3 U	NR
Vanadium	**NS**	**NS**	18.6	20.2	NR	24.3	NR
Zinc	**109**	**10000**	80.1	**529**	NR	**328**	NR

Attached Table 9
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - Metals

AKRF Sample ID Sample Elevation (NAV Laboratory Sample ID Date Sampled Unit Dilution Factor	NYSDEC UUSCO	NYSDEC RRSCO	EP-19_20190403 13.94 460-178736-15 4/3/2019 2:00:00 PM mg/kg 3	EP-19_20190403 13.94 460-178736-15 4/3/2019 2:00:00 PM mg/kg 4	EP-20_20190403 13.51 460-178736-16 4/3/2019 2:15:00 PM mg/kg 3	EP-20_20190403 13.51 460-178736-16 4/3/2019 2:15:00 PM mg/kg 4	EP-21_20190429 11.98 460-180693-1 4/29/2019 10:05:00 AM mg/kg 3
Aluminum	**NS**	**NS**	NR	8920	NR	6130	NR
Antimony	**NS**	**NS**	NR	4.2 U	NR	1.4 J	NR
Arsenic	**13**	**16**	NR	12.8	NR	**21.8**	NR
Barium	**350**	**400**	NR	185	NR	158	NR
Beryllium	**7.2**	**72**	NR	0.6	NR	0.63	NR
Cadmium	**2.5**	**4.3**	NR	0.85 U	NR	0.18 J	NR
Calcium	**NS**	**NS**	NR	12700	NR	8930	NR
Chromium, Total	**NS**	**NS**	NR	27.3	NR	20.2	NR
Cobalt	**NS**	**NS**	NR	6.7 J	NR	6.6 J	NR
Copper	**50**	**270**	NR	**194**	NR	**284**	NR
Iron	**NS**	**NS**	NR	23700	NR	26800	NR
Lead	**63**	**400**	NR	**379**	NR	**593**	NR
Magnesium	**NS**	**NS**	NR	2670	NR	2130	NR
Manganese	**1600**	**2000**	NR	358	NR	310	NR
Mercury	**0.18**	**0.81**	**2.3**	NR	**1.3**	NR	**1.7**
Nickel	**30**	**310**	NR	18.4	NR	21.6	NR
Potassium	**NS**	**NS**	NR	855 J	NR	849 J	NR
Selenium	**3.9**	**180**	NR	4.2 U	NR	4.6 U	NR
Silver	**2**	**180**	NR	0.4 J	NR	0.43 J	NR
Sodium	**NS**	**NS**	NR	175 J	NR	278 J	NR
Thallium	**NS**	**NS**	NR	4.2 U	NR	4.6 U	NR
Vanadium	**NS**	**NS**	NR	25.1	NR	27.5	NR
Zinc	**109**	**10000**	NR	**467**	NR	**407**	NR

Attached Table 9
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - Metals

AKRF Sample ID			EP-21_20190429	EP-X03_20190429	EP-X03_20190429	EP-22_20190429	EP-22_20190429
Sample Elevation (NAV			11.98	12.70	12.70	12.70	12.70
Laboratory Sample ID	NYSDEC	NYSDEC	460-180693-1	460-180693-3	460-180693-3	460-180693-2	460-180693-2
Date Sampled	UUSCO	RRSCO	4/29/2019 10:05:00 AM	4/29/2019 10:10:00 AM	4/29/2019 10:10:00 AM	4/29/2019 10:15:00 AM	4/29/2019 10:15:00 AM
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			4	3	4	3	4
Aluminum	**NS**	**NS**	7840	NR	7220	NR	7580
Antimony	**NS**	**NS**	1.4 JL	NR	4.5 U	NR	4.6 U
Arsenic	**13**	**16**	**14**	NR	8.5	NR	10.1
Barium	**350**	**400**	138	NR	107	NR	108
Beryllium	**7.2**	**72**	0.5	NR	0.44 J	NR	0.43 J
Cadmium	**2.5**	**4.3**	0.22 J	NR	0.89 U	NR	0.93 U
Calcium	**NS**	**NS**	5680	NR	8850	NR	4810 JL
Chromium, Total	**NS**	**NS**	20.8	NR	20.6	NR	17.7
Cobalt	**NS**	**NS**	6.8 J	NR	6.3 J	NR	6.1 J
Copper	**50**	**270**	**149**	NR	**88.4**	NR	**88.9**
Iron	**NS**	**NS**	22300	NR	24300	NR	18900
Lead	**63**	**400**	**342**	NR	**243**	NR	**281**
Magnesium	**NS**	**NS**	2040	NR	2320	NR	2020
Manganese	**1600**	**2000**	327	NR	402	NR	277 JL
Mercury	**0.18**	**0.81**	NR	**1.9**	NR	**1.5**	NR
Nickel	**30**	**310**	15.7 J	NR	14.5	NR	13.2
Potassium	**NS**	**NS**	943 J	NR	859 J	NR	866 J
Selenium	**3.9**	**180**	4.6 U	NR	4.5 U	NR	4.6 U
Silver	**2**	**180**	0.26 J	NR	2.2 U	NR	2.3 U
Sodium	**NS**	**NS**	178 J	NR	165 J	NR	142 J
Thallium	**NS**	**NS**	4.6 U	NR	4.5 U	NR	4.6 U
Vanadium	**NS**	**NS**	24.4	NR	24	NR	21.2
Zinc	**109**	**10000**	**359 J**	NR	**169**	NR	**176**

Attached Table 9
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - Metals

AKRF Sample ID Sample Elevation (NAV Laboratory Sample ID Date Sampled Unit Dilution Factor	NYSDEC UUSCO	NYSDEC RRSCO	EP-23_20190701 16.45 460-185721-1 7/1/2019 12:35:00 PM mg/kg 1	EP-23_20190701 16.45 460-185721-1 7/1/2019 12:35:00 PM mg/kg 4	EP-24_20190701 15.93 460-185721-2 7/1/2019 12:45:00 PM mg/kg 4	EP-24_20190701 15.93 460-185721-2 7/1/2019 12:45:00 PM mg/kg 5	EP-X04_20190701 15.93 460-185721-3 7/1/2019 12:55:00 PM mg/kg 2
Aluminum	**NS**	**NS**	NR	7620	8440	NR	NR
Antimony	**NS**	**NS**	NR	4.5 U	4.4 UJ	NR	NR
Arsenic	**13**	**16**	NR	7.7	6.4	NR	NR
Barium	**350**	**400**	NR	74.3	93.2	NR	NR
Beryllium	**7.2**	**72**	NR	0.4 J	0.52	NR	NR
Cadmium	**2.5**	**4.3**	NR	0.9 U	0.88 U	NR	NR
Calcium	**NS**	**NS**	NR	45400	53100	NR	NR
Chromium, Total	**NS**	**NS**	NR	32.3	30.9	NR	NR
Cobalt	**NS**	**NS**	NR	5.4 J	5.5 J	NR	NR
Copper	**50**	**270**	NR	38.9	48.1 JK	NR	NR
Iron	**NS**	**NS**	NR	12300	15300	NR	NR
Lead	**63**	**400**	NR	**88.8**	**113**	NR	NR
Magnesium	**NS**	**NS**	NR	6720	6800 JL	NR	NR
Manganese	**1600**	**2000**	NR	240	305	NR	NR
Mercury	**0.18**	**0.81**	**0.68**	NR	NR	**1.6**	**0.87**
Nickel	**30**	**310**	NR	20.2	20.2	NR	NR
Potassium	**NS**	**NS**	NR	1110 J	1140	NR	NR
Selenium	**3.9**	**180**	NR	4.5 U	4.4 U	NR	NR
Silver	**2**	**180**	NR	2.3 U	2.2 U	NR	NR
Sodium	**NS**	**NS**	NR	255 J	186 J	NR	NR
Thallium	**NS**	**NS**	NR	4.5 U	4.4 U	NR	NR
Vanadium	**NS**	**NS**	NR	28.6	34.3	NR	NR
Zinc	**109**	**10000**	NR	94.5	**146 JL**	NR	NR

Attached Table 9
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - Metals

AKRF Sample ID			EP-X04_20190701	EP-FB-01_20190225	EP-FB-01_20190225	EP-FB-02_20190403	EP-FB-02_20190403
Sample Elevation (NAV			15.93	N/A	N/A	N/A	N/A
Laboratory Sample ID	NYSDEC	NYSDEC	460-185721-3	460-176028-9	460-176028-9	460-178736-2	460-178736-2
Date Sampled	UUSCO	RRSCO	7/1/2019 12:55:00 PM	2/25/2019 9:50:00 AM	2/25/2019 9:50:00 AM	4/3/2019 12:00:00 PM	4/3/2019 12:00:00 PM
Unit			mg/kg	ug/L	ug/L	ug/L	ug/L
Dilution Factor			4	1	2	1	2
Aluminum	**NS**	**NS**	7460	NR	40 U	NR	40 U
Antimony	**NS**	**NS**	4.3 UJ	NR	2 U	NR	2 U
Arsenic	**13**	**16**	5.6	NR	2 U	NR	2 U
Barium	**350**	**400**	79.7	NR	4 U	NR	4 U
Beryllium	**7.2**	**72**	0.52	NR	0.8 U	NR	0.8 U
Cadmium	**2.5**	**4.3**	0.86 U	NR	2 U	NR	2 U
Calcium	**NS**	**NS**	51200	NR	200 U	NR	200 U
Chromium, Total	**NS**	**NS**	26.2	NR	4 U	NR	4 U
Cobalt	**NS**	**NS**	4.8 J	NR	4 U	NR	4 U
Copper	**50**	**270**	36.2 JK	NR	4 U	NR	4 U
Iron	**NS**	**NS**	12400	NR	120 U	NR	120 U
Lead	**63**	**400**	**77.6 JL**	NR	1.2 U	NR	1.2 U
Magnesium	**NS**	**NS**	6660	NR	200 U	NR	200 U
Manganese	**1600**	**2000**	265	NR	8 U	NR	8 U
Mercury	**0.18**	**0.81**	NR	0.2 U	NR	0.2 U	NR
Nickel	**30**	**310**	19	NR	4 U	NR	4 U
Potassium	**NS**	**NS**	993 J	NR	200 U	NR	200 U
Selenium	**3.9**	**180**	4.3 U	NR	10 U	NR	10 U
Silver	**2**	**180**	2.2 U	NR	2 U	NR	2 U
Sodium	**NS**	**NS**	163 J	NR	200 U	NR	200 U
Thallium	**NS**	**NS**	4.3 U	NR	0.8 U	NR	0.8 U
Vanadium	**NS**	**NS**	34.4	NR	4 U	NR	4 U
Zinc	**109**	**10000**	108 JL	NR	16 U	NR	16 U

Attached Table 9
New 470 Project
12 Eckford Street
Brooklyn, New York
Site Endpoint Samples - Metals

AKRF Sample ID Sample Elevation (NAV Laboratory Sample ID Date Sampled Unit Dilution Factor	NYSDEC UUSCO	NYSDEC RRSCO	EP-FB-03_20190429 N/A 460-180693-4 4/29/2019 11:40:00 AM ug/L 1	EP-FB-03_20190429 N/A 460-180693-4 4/29/2019 11:40:00 AM ug/L 2	EP-FB-04_20190701 N/A 460-185721-4 7/1/2019 1:05:00 PM ug/L 1	EP-FB-04_20190701 N/A 460-185721-4 7/1/2019 1:05:00 PM ug/L 2
Aluminum	**NS**	**NS**	NR	40 U	NR	40 U
Antimony	**NS**	**NS**	NR	2 U	NR	2 U
Arsenic	**13**	**16**	NR	2 U	NR	2 U
Barium	**350**	**400**	NR	4 U	NR	4 U
Beryllium	**7.2**	**72**	NR	0.8 U	NR	0.8 U
Cadmium	**2.5**	**4.3**	NR	2 U	NR	2 U
Calcium	**NS**	**NS**	NR	200 U	NR	200 U
Chromium, Total	**NS**	**NS**	NR	4 U	NR	4 U
Cobalt	**NS**	**NS**	NR	4 U	NR	4 U
Copper	**50**	**270**	NR	4 U	NR	4 U
Iron	**NS**	**NS**	NR	120 U	NR	120 U
Lead	**63**	**400**	NR	1.2 U	NR	1.2 U
Magnesium	**NS**	**NS**	NR	200 U	NR	200 U
Manganese	**1600**	**2000**	NR	8 U	NR	8 U
Mercury	**0.18**	**0.81**	0.2 U	NR	0.2 U	NR
Nickel	**30**	**310**	NR	4 U	NR	4 U
Potassium	**NS**	**NS**	NR	200 U	NR	200 U
Selenium	**3.9**	**180**	NR	10 U	NR	10 U
Silver	**2**	**180**	NR	2 U	NR	2 U
Sodium	**NS**	**NS**	NR	200 U	NR	200 U
Thallium	**NS**	**NS**	NR	0.8 U	NR	0.8 U
Vanadium	**NS**	**NS**	NR	4 U	NR	4 U
Zinc	**109**	**10000**	NR	16 U	NR	16 U

Attached Tables 6 - 9
New 470 Project
12 Eckford Street
Brooklyn, New York
Notes

Qualifier	Description
J	The reported concentration is a value above the method detection limit, but is estimated and may be imprecise.
L	The reported concentration is a value above the method detection limit, but is reported low.
K	The reported concentration is proportional to dilution factor and may be exaggerated.
R	The reported concentration is unusable; the analyte may or may not be present in the sample.
U	The concentration was not detected above the method detection limit; the compound is not present in the sample.

Blind Duplicate Samples
EP-X01_20190225 is a blind duplicate of sample EP-02_20190225.
EP-X02_20190403 is a blind duplicate of sample EP-08_20190403.
EP-X03_20190429 is a blind duplicate of sample EP-22_20190429.
EP-X04_20190701 is a blind duplicate of sample EP-24_20190701.

Part 375 Soil Cleanup Objectives (SCOs): SCOs listed in the New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) are presented in bold font.
Exceedances of NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) are presented in gray shading.

mg/kg - milligrams per kilogram = parts per million (ppm)
ug/L - micrograms per Liter = parts per billion (ppb)

Standards

Part 375 Soil Cleanup Objectives	:	Soil Cleanup Objectives listed in NYSDEC (New York State Department of Environmental Conservation) "Part 375" Regulations (6 NYCRR Part 375).

Exceedances of Part 375 Unrestricted Soil Cleanup Objectives (UUSCOs) are highlighted in bold font.
Exceedances of Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs) are highlighted in gray.
Elevations are presented in North American Vertical Datum (NAVD) 88.

APPENDIX A

METES AND BOUNDS, RP-602 FORMS

DEPT OF BLDGS 320909772 Job Number

ES650864005 Scan Code

New York City Department of Finance ● Property Division ● Tax Map Office

APPLICATION FOR APPORTIONMENTS OR MERGERS

Instructions: Please complete this application and *submit in person* to: ***Department of Finance, Property Division - Tax Map Office, 66 John Street, 2nd floor,*** *New York, NY 10038.* Please read the instructions for further details before completing this form. Print clearly.

SECTION A: PROPERTY INFORMATION

Borough: BROOKLYN Block: 2714 Present Lot(s): 1, 30, 32, 33

DO NOT WRITE IN THIS SPACE - FOR OFFICE USE ONLY

Lot Number: 1, 33

☒ Merger ☐ Apportionment Number of Lots Requested 2

☐ Air ☐ Subterranean

Lot(s)Usage: (check one)

☒ *Residential* Building Gross Sq/Ft:

☐ *Commercial* Building Gross Sq/Ft:

☐ *Mix* (Residential & Commercial) Building Gross Sq/Ft:

1. Property Owner's Name (as per Deed): LAST NAME FIRST NAME

OR

Company Name: 470 MANHATTAN AVE, LLC / NEW 470 LLC

2. Property Address: 22 ECKFORD STREET, (NUMBER AND STREET) BROOKLYN, (CITY) NY (STATE) 11222 (ZIP CODE)

3. Filing Representative (if applicable):

SECTION B: CERTIFICATION

1. Architect/Engineer/Applicant's Name: HILL, (LAST NAME) L. STEPHEN (FIRST NAME)

2. Address: 11 BROADWAY, 17TH FLOOR (NUMBER AND STREET) NEW YORK (CITY) NY (STATE) 10004 (ZIP CODE)

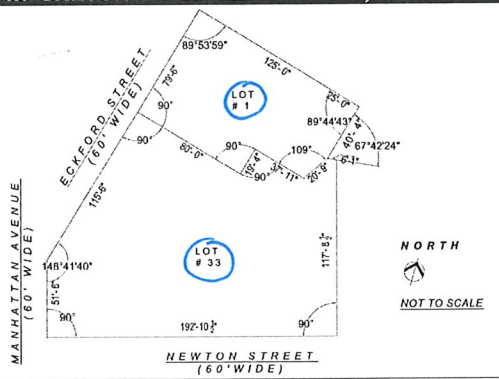
3. Telephone Number: 212-213-8007 4. Email Address: LSHILL@HILLWEST.COM

The applicant hereby certifies that, in making this application for merger/apportionment, s/he is the owner, or acting under the direction of the owner.

Signature of Architect/ Engineer/Applicant: **Date:** /_____/_____

TAX MAP CHANGE WILL NOT BE MADE UNTIL PRESENTATION OF REQUIRED DOCUMENTS (see reverse for the required documents)

DRAW SKETCH TO SCALE 1" = 50', IF POSSIBLE INDICATE NORTH ARROW



(Architect or Engineer's seal)

Tentative Lot(s) issued:
Customer Service Representative: J. Banks Date: 09 /21 /2017 New Lot(s): — Lot(s) Affected: 1, 33 Lot(s) Dropped: 30, 32

Please note: Map changes will not be made until presentation of all required documents is reviewed and approved by the Specialist. Lots are tentative until final approval is received from the Tax Map Office.

Map Updated:
Tax Map Specialist: _____ Date: ___/___/___

RP-602 Rev. 03.20.2017

SCHEDULE "A" PROPERTY DESCRIPTION

Metes and Bounds Description
Block 2714
New Lot #33 and Environmental Easement

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Brooklyn, County of Kings, City and State of New York, bounded and described as follows:

BEGINNING at the corner formed by the intersection of the northeasterly side of Manhattan Avenue with the northerly side of Newton Street;

RUNNING THENCE along the northeasterly side of Manhattan Avenue 51 feet 6 inches to the easterly side of Eckford Street;

THENCE along the easterly side of Eckford Street 115 feet 6-3/8 inches;

THENCE easterly at 90 degree angles to Eckford Street 80 feet;

THENCE northerly at 90 degree angles to the last course 19 feet 3-3/4 inches;

THENCE at easterly at 90 degree angles to the last course 37 feet 1 1-1/4 inches;

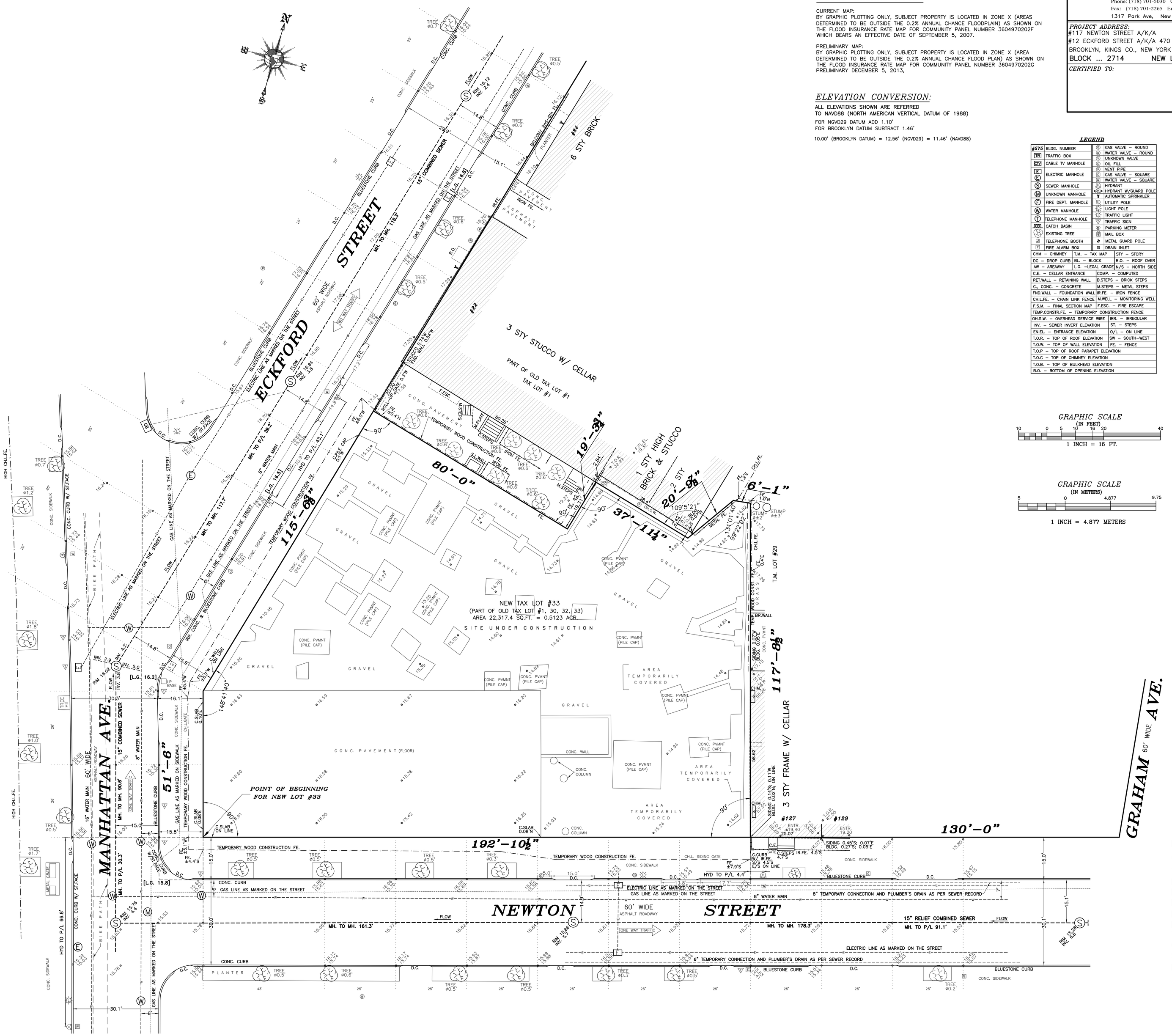
THENCE northerly formerly an interior angle of 109 degrees 5 minutes 21 seconds, 20 feet 9-7/8 inches;

THENCE easterly 6 feet 1 inch;

THENCE southerly at 90 degree angles to Newton Street 117 feet 8-1/2 inches to the northerly side of Newton Street;

THENCE westerly along the northerly side of Newton Street 192 feet 10-1/2 inches to the point or place of BEGINNING.

Total Area 22,317.4 square feet (.5123 acres)



FLOOD HAZARD NOTE:

CURRENT MAP:
BY GRAPHIC PLOTTING ONLY, SUBJECT PROPERTY IS LOCATED IN ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR COMMUNITY PANEL NUMBER 3604970202F WHICH BEARS AN EFFECTIVE DATE OF SEPTEMBER 5, 2007.

PRELIMINARY MAP:
BY GRAPHIC PLOTTING ONLY, SUBJECT PROPERTY IS LOCATED IN ZONE X (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAN) AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR COMMUNITY PANEL NUMBER 3604970202G PRELIMINARY DECEMBER 5, 2013,

ELEVATION CONVERSION:

ALL ELEVATIONS SHOWN ARE REFERRED TO NAVD88 (NORTH AMERICAN VERTICAL DATUM OF 1988)

FOR NGVD29 DATUM ADD 1.10'
FOR BROOKLYN DATUM SUBTRACT 1.46'

10.00' (BROOKLYN DATUM) = 12.56' (NGVD29) = 11.46' (NAVD88)

GeoLand
LAND SURVEYING P.C.
Phone: (718) 701-5030 www.GeoLandCorp.com
Fax: (718) 701-2265 Email: info@geolandcorp.com
1317 Park Ave, New Hyde Park, NY 11040

PROJECT ADDRESS:
#117 NEWTON STREET A/K/A
#12 ECKFORD STREET A/K/A 470 MANHATTAN AVENUE,
BROOKLYN, KINGS CO., NEW YORK
BLOCK ... 2714 NEW LOT ... 33

DRAWN BY: J.P.
SCALE: 1" = 16'
SURVEYED FOR:
HEATHERWOOD LUXURY RENTALS

CERTIFIED TO:

REVISIONS DESCRIPTION	DATE	JOB NO.
1. ARCHITECTURAL SURVEY	01-20-2017	GLS17017
2. ALTA/NSPS LAND TITLE SURVEY	02-21-2018	GLS18087
3. UPDATING WITH ADDITIONAL INFORMATION	04-29-2019	GLS19166
4. LOT AREA ADDED	06-12-2019	GLS19166

Certification indicated hereon signify that this survey was prepared in accordance with the existing Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors. Said certifications shall run only to the person for whom the survey is prepared, and on his behalf to the title company, governmental agency and lending institution listed hereon, and to the assignees of the lending institution.
Certifications are not transferable to additional institutions or subsequent owner. Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of section 7209, sub-division 2, of the New York State Education Law.
Only copies from the original of this survey marked with an original of the land surveyor's embossed seal shall be considered to be valid true copies.

PAWEL KOPCINSKI, N.Y.S. L.L.S. 050881

LEGEND

#575	BLDG. NUMBER	Ⓖ	GAS VALVE – ROUND
TR	TRAFFIC BOX	Ⓦ	WATER VALVE – ROUND
CTV	CABLE TV MANHOLE	Ⓥ	UNKNOWN VALVE
E Ⓔ	ELECTRIC MANHOLE	Ⓞ	OIL FILL
		Ⓟ	VENT PIPE
		G	GAS VALVE – SQUARE
		W	WATER VALVE – SQUARE
Ⓢ	SEWER MANHOLE	Ⓗ	HYDRANT
Ⓜ	UNKNOWN MANHOLE	•Ⓗ•	HYDRANT W/GUARD POLE
		Y	AUTOMATIC SPRINKLER
Ⓕ	FIRE DEPT. MANHOLE	Ⓤ	UTILITY POLE
Ⓦ	WATER MANHOLE	Ⓛ	LIGHT POLE
Ⓣ	TELEPHONE MANHOLE	Ⓣ	TRAFFIC LIGHT
		▽	TRAFFIC SIGN
CB	CATCH BASIN	Ⓜ	PARKING METER
	EXISTING TREE	MB	MAIL BOX
☎	TELEPHONE BOOTH	◕	METAL GUARD POLE
F	FIRE ALARM BOX	▨	DRAIN INLET

CHM – CHIMNEY
DC – DROP CURB
AW – AREAWAY
T.M. – TAX MAP
BL. – BLOCK
L.G. –LEGAL GRADE
STY – STORY
R.O. – ROOF OVER
N/S – NORTH SIDE
C.E. – CELLAR ENTRANCE
RET.WALL – RETAINING WALL
C., CONC. – CONCRETE
FND.WALL – FOUNDATION WALL
CH.L.FE. – CHAIN LINK FENCE
F.S.M. – FINAL SECTION MAP
COMP. – COMPUTED
B.STEPS – BRICK STEPS
M.STEPS – METAL STEPS
IR.FE. – IRON FENCE
M.WELL – MONITORING WELL
F.ESC. – FIRE ESCAPE
TEMP.CONSTR.FE. – TEMPORARY CONSTRUCTION FENCE
OH.S.W. – OVERHEAD SERVICE WIRE
INV. – SEWER INVERT ELEVATION
EN.EL. – ENTRANCE ELEVATION
T.O.R. – TOP OF ROOF ELEVATION
T.O.W. – TOP OF WALL ELEVATION
IRR. – IRREGULAR
ST. – STEPS
O/L – ON LINE
SW – SOUTH-WEST
FE. – FENCE
T.O.P – TOP OF ROOF PARAPET ELEVATION
T.O.C – TOP OF CHIMNEY ELEVATION
T.O.B. – TOP OF BULKHEAD ELEVATION
B.O. – BOTTOM OF OPENING ELEVATION

GRAPHIC SCALE
(IN FEET)
10 0 5 10 16 20 40
1 INCH = 16 FT.

GRAPHIC SCALE
(IN METERS)
5 0 4.877 9.75
1 INCH = 4.877 METERS

GENERAL NOTES:

1. TOTAL AREA OF LOT #33 = 22,317.4 SQ.FT. = 0.5123 ACR.

2. THE SUBJECT PROPERTY SHOWS NO EVIDENCE OF SITE USE A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL,

3. THIS IS TO CERTIFY THAT THERE WERE NO PHYSICAL STREAMS, WATER COURSES, DITCHES RUNNING ON OR ACROSS PROPERTY AT TIME OF SURVEY,

4. THE LOCATION AND EXTENTS OF UNDERGROUND VAULTS, IF ANY EXIST, HAVE NOT BEEN DETERMINED BY THE SURVEYOR.

5. THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ARE BASED ON VISIBLE ABOVE GROUND STRUCTURES, MARK OUT BY OTHERS, AND RECORD UTILITY DRAWINGS. ADDITIONAL BURIED UTILITIES AND STRUCTURES MAY BE ENCOUNTERED.

6. THIS PROPERTY IS NOT LOCATED IN AN AREA THAT MAY BE AFFECTED BY TIDAL WETLANDS, FRESHWATER WETLANDS, COASTAL EROSION HAZARD AREA, OR SPECIAL FLOOD HAZARD AREA.

7. THE ACCOMPANYING SURVEY WAS MADE ON THE GROUND AND CORRECTLY SHOWS THE LOCATION OF ALL BUILDINGS, STRUCTURES AND OTHER IMPROVEMENTS SITUATED ON THE PREMISES; THERE ARE NO VISIBLE ENCROACHMENTS ON THE SUBJECT PROPERTY OR UPON ADJACENT LAND ABUTTING SAID PROPERTY EXCEPT AS SHOWN HEREON AND WAS MADE IN ACCORDANCE WITH LAWS AND/OR MINIMUM STANDARDS OF THE STATE OF NEW YORK.

ALL SUBSURFACE UTILITY LOCATIONS AND DEPTH SHOULD BE RECHECKED AND LEGAL GRADES SHOULD BE VERIFIED WITH THE TOPOGRAPHICAL BUREAU, PREFERABLY IN WRITING BEFORE COMMENCING FINAL DESIGN OR CONSTRUCTION.

REFER TO ARTICLE 36 OF THE GENERAL BUSINESS LAW AND THE PROVISIONS OF INDUSTRIAL CODE PART (RULE NO. 53) BEFORE ANY EXCAVATION OR DEMOLITION IS COMMENCED. THESE LAWS REQUIRE EACH EXCAVATOR TO GIVE ADVANCE NOTICE TO ALL OPERATORS OF UNDERGROUND FACILITIES OF HIS INTENT TO PERFORM EXCAVATION OR DEMOLITION WORK IN THE SPECIFIED AREAS.

ALL ELEVATIONS SHOWN ARE REFERRED TO THE NAVD88 (NORTH AMERICAN VERTICAL DATUM OF 1988).

LYING AND BEING IN THE BOROUGH OF BROOKLYN, COUNTY OF KINGS, CITY AND STATE OF NEW YORK, BEING KNOWN AND DESIGNATED ON A CERTAIN MAP ENTITLED "MAP OF PROPERTY SITUATED IN THE 17th WARD, CITY OF BROOKLYN, BELONGING TO THE ESTATE OF WILLIAM CONSELYEA, SURVEYED BY J.MESEROLE 12/1880 AND FILED IN THE OFFICE OF THE REGISTER OF THE COUNTY OF KINGS ON 8/8/81

METES AND BOUNDS DESCRIPTION:

BLOCK 2714
NEW LOT#33 AND ENVIRONMENTAL EASEMENT

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, WITH THE BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITUATE, LYING AND BEING IN THE BOROUGH OF BROOKLYN, COUNTY OF KINGS, CITY AND STATE OF NEW YORK, BEING BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE NORTHEASTERLY SIDE OF MANHATTAN AVENUE AND NORTHERLY SIDE OF NEWTON STREET;

RUNNING THENCE ALONG THE NORTHEASTERLY SIDE OF MANHATTAN AVENUE, 51 FEET 6 INCHES TO THE EASTERLY SIDE OF ECKFORD STREET;

THENCE ALONG THE EASTERLY SIDE OF ECKFORD STREET, 115 FEET 6 3/8 INCHES;

THENCE EASTERLY AT 90 DEGREE ANGLES TO ECKFORD STREET, 80 FEET;

THENCE NORTHERLY AT 90 DEGREE ANGLES TO THE LAST COURSE, 19 FEET 3 3/4 INCHES;

THENCE EASTERLY AT 90 DEGREE ANGLES TO THE LAST COURSE, 37 FEET 11 1/4 INCHES;

THENCE NORTHERLY FORMING AN EXTERIOR ANGLE 109 DEGREES 05 MINUTES 21 SECONDS, 20 FEET 9 7/8 INCHES;

THENCE EASTERLY 6 FEET 1 INCH;

THENCE SOUTHERLY AT 90 DEGREE ANGLES TO NEWTON STREET, 117 FEET 8 1/2 INCHES TO THE NORTHERLY SIDE OF NEWTON STREET;

THENCE WESTERLY ALONG THE NORTHERLY SIDE OF NEWTON STREET, 192 FEET 10 1/2 INCHES TO THE POINT OR PLACE OF BEGINNING.

TOTAL AREA 22,317.4 SQ.FT.

ENVIRONMENTAL EASEMENT NOTE:

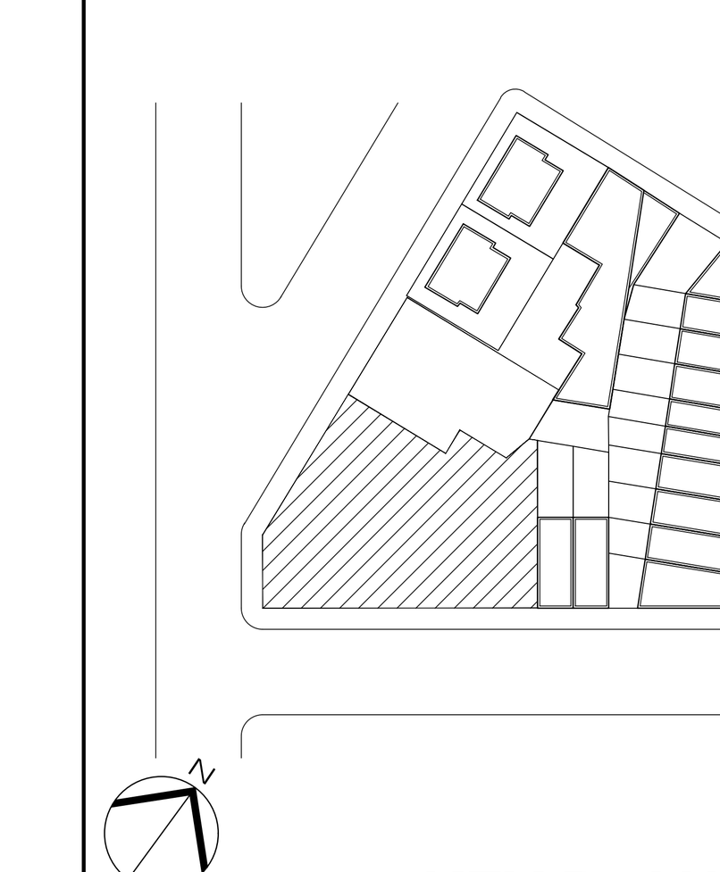
"THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN MORE DETAIL IN THE SITE MANAGEMENT PLAN (SMP). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP CAN BE OBTAINED FROM NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV".

APPENDIX B

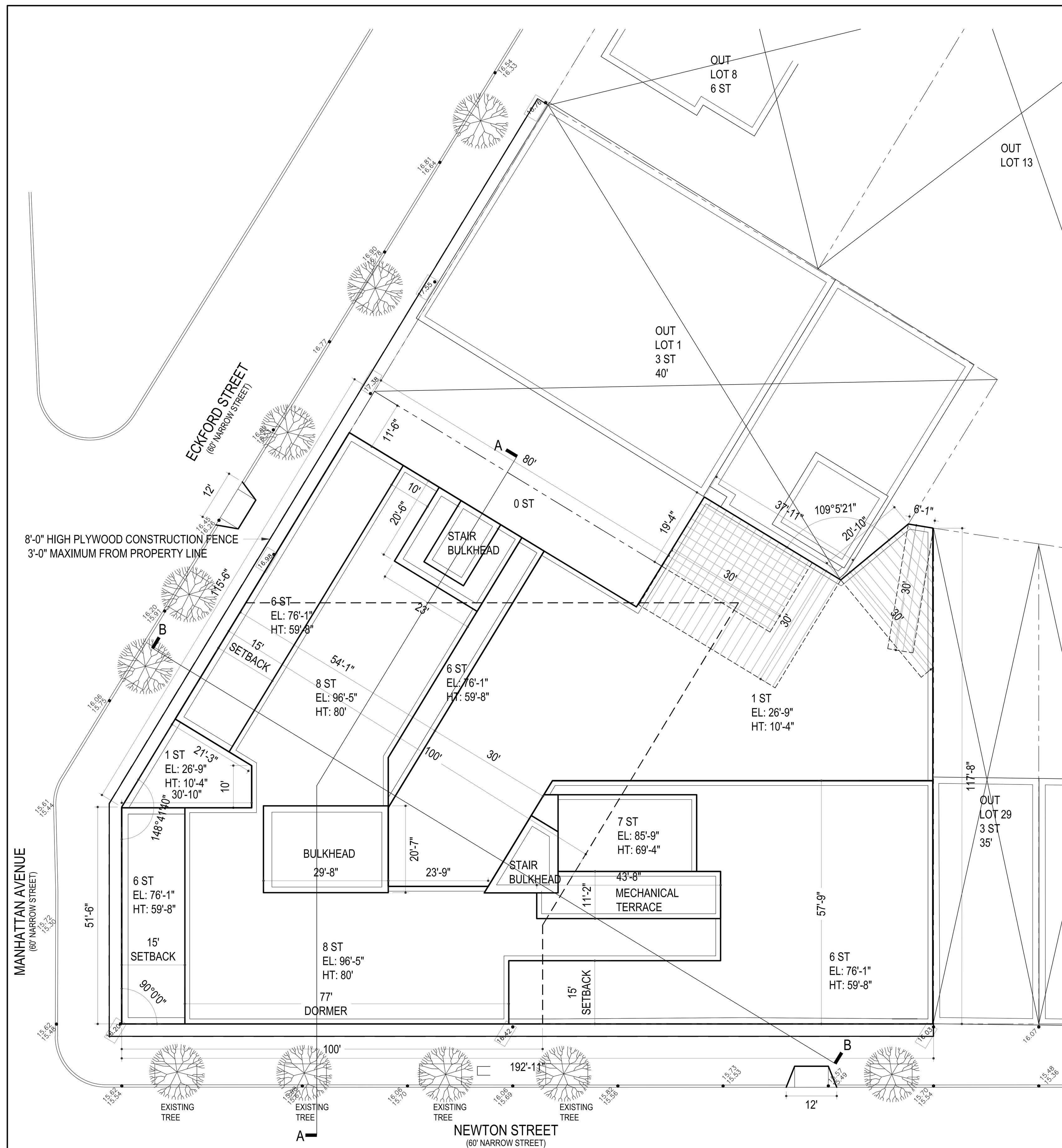
FINAL ENGINEERING REPORT (CD)

APPENDIX C
DEVELOPMENT PLANS

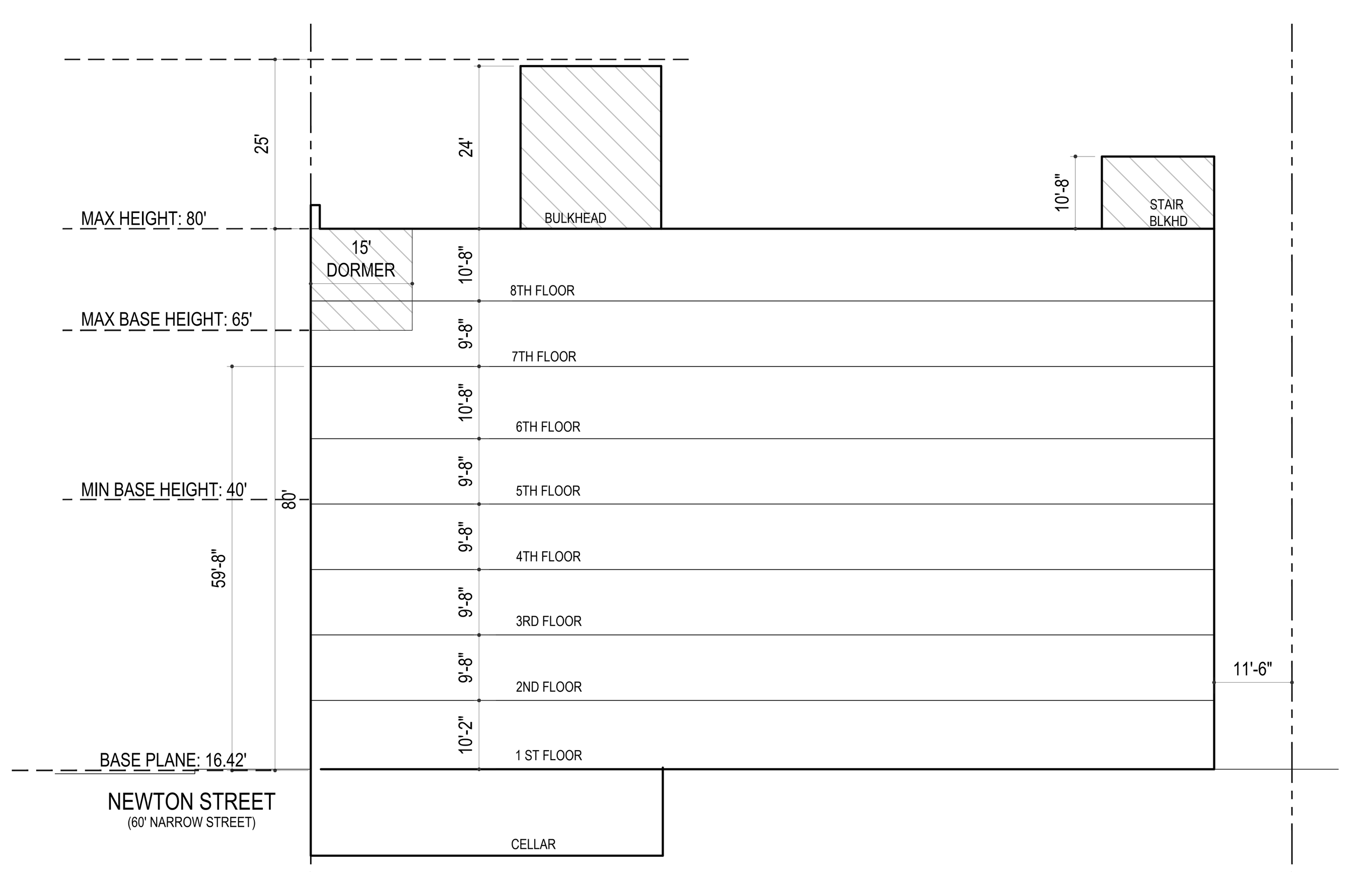
NOTES



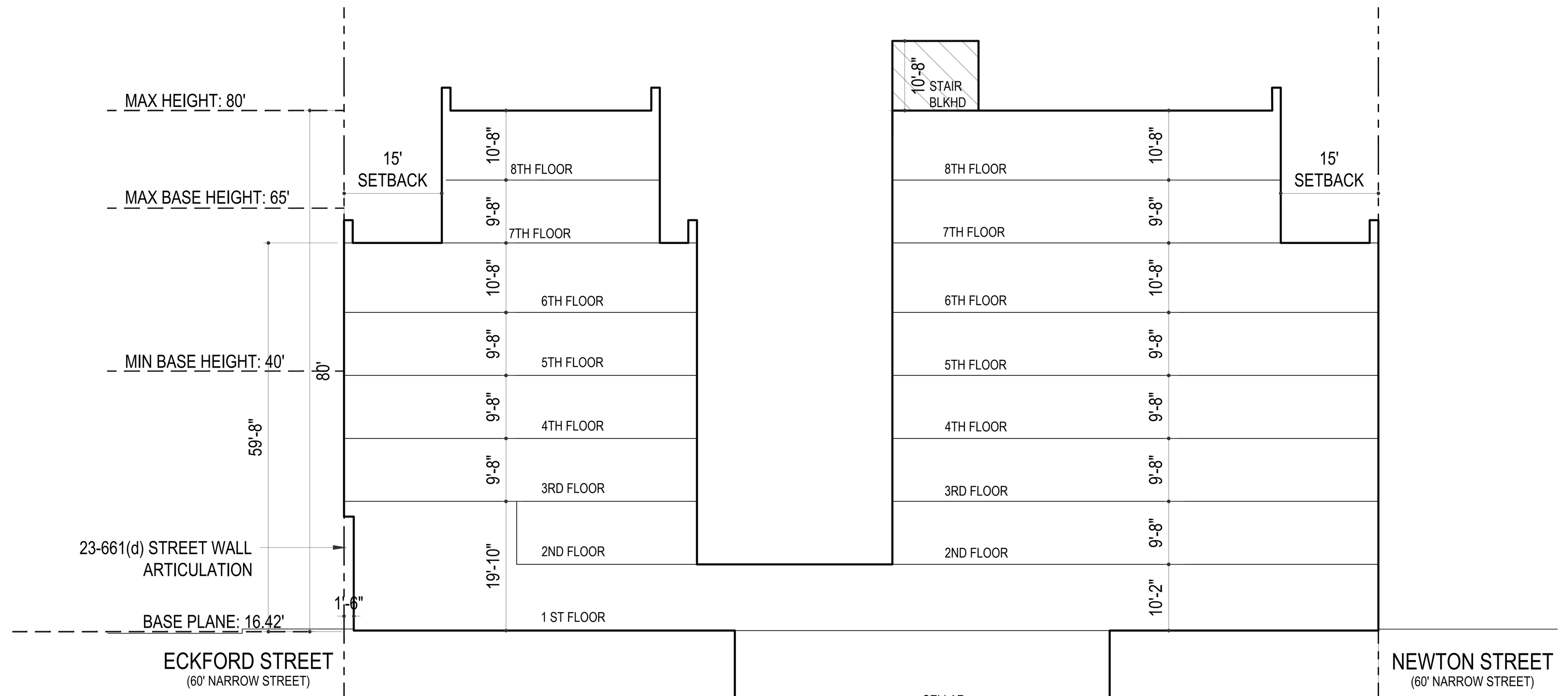
KEY PLAN



1 SITE PLAN
1/16" = 1'-0"



2 SECTION A
1/16" = 1'-0"



3 SECTION B
1/16" = 1'-0"

FLOOR AREA SCHEDULE

Floor	Use	Gross Area (SF)	MEP Deductions	Quality Housing (SF)	Parking (SF)	Bicycle Storage (SF)	Zoning FA (SF)
Cellar	Residential	1,935.3					0.0
	Mechanical	4,213.9					0.0
	Total	6,149.2					0.0
1	Residential	8,299.6	806.2	2,530.4		515.6	4,447.4
	Parking	13,041.5			13,041.5		0.0
	Total	21,341.1	806.2	2,530.4	13,041.5	515.6	4,447.4
2	Residential	13,337.0	797.3	677.8			11,861.9
3	Residential	14,270.1	854.0	679.6			12,736.5
4	Residential	14,270.1	854.0	679.6			12,736.5
5	Residential	14,270.1	854.0	679.6			12,736.5
6	Residential	14,270.1	854.0	679.6			12,736.5
7	Residential	7,989.3	386.6	1,009.6			6,593.1
8	Residential	7,390.1	382.6	983.6			6,023.9
Roof	Residential	1,656.0	1,251.0				405.0
TOTAL	Mechanical	4,213.9	0.0	0.0	0.0	0.0	
	Residential	97,687.7	7,039.7	7,919.8	0.0	515.6	
	Parking	13,041.5	0.0	0.0	13,041.5	0.0	
	TOTAL	114,943.1	7,039.7	7,919.8	13,041.5	515.6	
TOTAL ABOVE GRADE	Mechanical	0.0	0.0	0.0	0.0	0.0	0.0
	Residential	95,752.4	7,039.7	7,919.8	0.0	515.6	80,277.3
	Parking	13,041.5	0.0	0.0	13,041.5	0.0	0.0
	TOTAL	108,793.9	7,039.7	7,919.8	13,041.5	515.6	80,277.3

Quality Housing Deductions and Dwelling Unit Schedule

FLOOR	# OF Dus	DENSITY IN CORRIDOR	DAYLIGHT IN CORRIDOR	REFUSE ROOM	RECREATION SPACE	LAUNDRY ROOM	TOTAL
1	0				2,530.4		2,530.4
2	17		665.8	12.0			677.8
3	18		667.6	12.0			679.6
4	18		667.6	12.0			679.6
5	18		667.6	12.0			679.6
6	18		667.6	12.0			679.6
7	7	498.8	498.8	12.0			1,009.6
8	5	485.8	485.8	12.0			983.6
TOTAL	101	984.6	4,320.8	84.0	2,530.4	0.0	7,919.8

Zoning Calculations
12 Eckford St. aka 470 Manhattan Avenue
Block: 2714
Lots: 1, 30, 32, 33

Zoning Section					
	1. Zoning district: M1-2/R6A				
	Special Mixed Use District, MX-8				
	Map: 13A				
	Community District: 1				
	2. Lot area: 22,317.4 SF				
123-20 22-00 42-00	3. A. <u>Permitted Use Groups:</u>				
	Use Groups 1-14, 16-17, as modified by 123-21 through 123-223				
	B. <u>Proposed Uses:</u>				
	Residential Use Group 2				
	4. <u>Floor Area Permitted</u>				
123-63 23-154 (b)	A. FAR Permitted				
	Base Residential FAR	2.7 x 22,317.4 SF =	60,257 SF		
	Maximum Residential w/ Inclusionary Housing*	3.6 x 22,317.4 SF =	80,343 SF		
	B. Maximum Total	3.6	80,343 SF		
	*Floor area may be increased by 1.25 SF for each SF of low income floor area provided, up to the maximum FAR specified.				
	5. A. <u>Floor Area Proposed</u>				
	Residential	3.5971 FAR	80,277 SF		
	B. <u>Inclusionary Housing Calculation</u>				
	Base Residential:	2.7 FAR	60,257 SF		
	Proposed Total ZFA:	3.5971 FAR	80,277 SF		
	Inclusionary Housing Bonus:	80,277 - 60,257 =	20,020 SF		
	Affordable Floor Area Required:	(80% of bonus)	16,016 SF		
	Affordable Floor Area Provided:		16,360 SF	Complies See A-007	
	6. Density				
23-22 23-24	A. Dwelling Unit Factor	680			
	Maximum Residential FAR permitted (3.6):	80,343			
	Non-Residential Floor Area provided:	0			
	Maximum number of dwelling units permitted:				
	80,343 / 680 =	118.15 (118)			
	B. Proposed Number of DUs	101		Complies	
	7. Yard Regulations				
	A. <u>Required Yards</u>				
23-42 23-47	Yard level shall not be higher than curb level except natural grade need not be disturbed.				
	Residential rear yard interior lot:	30'			
	30' provided.				
23-44(b)	B. Permitted Obstructions				
	Parking spaces, provided the height of a building or portion thereof doesn't exceed 15' above base plane.				
	C. Side yard not required, minimum 8' if provided.				
	Proposed side yard: 11'-6"			Complies See 1/Z-001	
123-63 23-153	8. Lot Coverage				
	A. Maximum lot coverage permitted				
	Corner lot: 100%, Interior Lot: 65%				
	Interior Lot:				
	11,252.3 x 65% =	7,314 SF			
	Proposed:	6,685 SF		Complies See 2/Z-002	
	9. Height & Setback				
123-662(b) 23-664 (a)	A. <u>Eligible Buildings</u>				
	50% or more of the floor area of the zoning lot contains residential uses and at least 20% of such residential floor area is affordable floor area per 23-154(b).				
	Proposed Residential floor area:	80,277 SF			
	80,277 x 20% =	16,055 SF			
	Affordable Floor Area Provided:	16,360 SF		Complies	
23-664 (b) Table 1	B. Minimum Base Height:	40'			
	Maximum Base Height:	65'			
	Proposed Base Height:	59'-8"			
	Maximum Building Height:	80'			
	Proposed Building Height:	80'			
	Maximum Number of Stories:	8		Complies	
	Proposed 8 stories.			See 2&3/Z-001	
23-662 (c)	C. Setback Requirements				
	Narrow street setback:	15'			
23-664 (c)	15' setback provided with dormer per 23-621.		Complies	See 6//Z-002	
23-661 (a)	D. Street wall location				
	The street wall shall not be located closer to the street line than the closest wall of an existing adjacent building.			Complies	
	On corner lots street wall location provisions apply along only one street line.			See 5/Z-002	
23-661 (d)	E. Street wall articulation				
	12" depth or projection permitted and			Complies	
	up to 50% of aggregate width at any level may recess or project up to 3'.			See 5/Z-002	
123-662(c) 23-62	F. Permitted Obstructions				
	(g) Elevator or stair bulkheads and accessory mechanical equipment, provided that:				
	(1) such obstructions shall be located not less than 10' from the street wall, except need not be more than 25' from a narrow street line.				
	(2) all mechanical equipment shall be screened on all sides.				
	(3-ii) the lot coverage of all such obstructions does not exceed 20% of the lot coverage of the building, and such obstructions are limited to a maximum height of 25'.				
	(j) Parapet walls not more than 4' in height.				
	Lot coverage of the building:	14,702 SF			
	14,702 x 20% =	2,940 SF			
	Proposed bulkhead coverage:	2,340 SF			
	Proposed bulkhead height:	24'			
		Complies See 3&4/Z-002			
123-32 91-411	10. Environmental Conditions				
	In Special Mixed Use Districts, all new dwelling units shall be provided with a minimum 35dB(A) of window wall attenuation to maintain an interior noise level of 45dB(A) or less, with windows closed, and shall provide an alternate means of ventilation.				
				Complies See A-200-202	
123-72 25-23 25-251	11. Accessory Off-Street Parking				
	A. Within the transit zone no accessory off-street parking required for income-restricted housing units.				
	Required Parking				
	101 Dwelling Units x 80% x 50% =		40 Cars		
	Income-restricted units:				
	21 Dwelling Units x 20% x 0% =		0 Cars		
	B. Proposed Attended Parking Facility:		41 Cars		
25-62	C. Minimum and Maximum Size of Parking Facility (Attended garage)				
	200 SF per space				
	200 x 41 Spaces =		8,200 SF		
	Proposed:		13,017 SF	Complies See 5/Z-002	
25-631(e)	D. Curb Cuts				
	1 curb cut permitted per street frontage.				
	Maximum width: 12'.			Complies	
	Proposed 2 curb cuts (on Eckford St. and Newton St.)			See 5/Z-002	
36-70 36-711	12. Accessory Bicycle Parking Regulations				
	A. Required bicycle parking:				
	For Residential:	1 per 2 DUs			
		101 / 2 =	51		
	B. Proposed Bicycle Parking				
	Number of parking spaces:		68		
36-73	C. Area (15 SF per space)*	51 x 15 SF =	1,020 SF		
	*May be reduced from 15 SF to 6 SF per space				
	Provided at First Floor		515.6 SF		
			7.6 SF/ space	Complies See 8/Z-002 & A-101	
23-011(c) 28-12	13. Quality Housing Program				
	A. Refuse Storage & Disposal				
	A refuse disposal room shall be provided on each story that has entrances to dwelling				
	Minimum Size: 12 SF			Complies	
	Minimum Dimension: 3 SF			Floors 2-8	
	Refuse storage room to be provided in an enclosed area within the zoning lot for residential at 2.9 cubic feet per dwelling unit.				
	101 DUs x 2.9 =		293 CF		
	Provided at First Floor:				
	275 SF x 10'-5" =		2,864 CF	Complies See 9/Z-002	
28-14	B. Daylight in Corridors				
	50% of the corridor may be excluded from floor area if a 20 SF clear window is provided which:				
	a) is directly visible from 50% of the corridor or the vertical circulation core.				
	b) is facing a street, yard or court per Art. 2, Ch. 3.				
	Proposed corridor windows are visible from 50% of the corridor and face a street and an outer court.			Complies Floors 2-8	
28-21	C. Recreation Space				
	Percentage of total residential area required:		3.30%		
	Required recreation space:		2,649 SF		
	Proposed recreation space at 1st Floor:		2,530 SF		
	Proposed recreation space at 2nd Floor Roof:		5,330 SF		
	Total:		7,860 SF	Complies	
	Area to be deducted:		2,530 SF	See 7/Z-002	
28-31	D. Density per corridor				
	If the number of dwelling units served by the vertical circulation core is 11 or less , 50% of the square footage of the corridor may be excluded from floor area.				
	Proposed 7 units at 7th Floor and 5 units at 8th Floor.			Complies Floors 7 & 8	
	14. Street Tree Planting				
33-03 26-41	A. Required trees: 1 tree/ 25' of street frontage				
	B. Street frontage provided:				
	Eckford St.	115.50'			
	Manhattan Ave.	51.50'			
	Newton St.	192.88'			
		359.88'			
	C. Total Trees required:	14	(359.88 / 25)		
	D. Proposed Number of Trees:	14	Complies		

NOTE:
THIS PROJECT DOES NOT INCLUDE MODULAR CONSTRUCTION
BB 2014-003

THIS PROJECT IS NOT WITHIN 90' OF A LANDMARK OR LANDMARK DISTRICT. TPPN 10/88

THIS PROJECT IS NOT WITHIN 200' OF A SUBWAY LINE. BC 3304.3.5

Number:	Date:	Revision:
	11/02/2018	ISSUED TO DOB
	10/19/2018	BULLETIN #1
	09/24/2018	ISSUED TO DOB
	08/30/2018	ISSUED TO DOB
	06/22/2018	ISSUED FOR 100% CD
	05/15/2018	ISSUED TO DOB
	04/20/2018	ISSUED TO DOB
	10/20/2017	ISSUED TO DOB
	04/07/2017	ISSUED FOR DOB FILING
	03/03/2017	ISSUED FOR DOB FILING
	02/17/2017	ISSUED FOR 75% CD
	02/03/2017	ISSUED FOR DOB FILING
	12/02/2016	PROGRESS SET
	09/30/2016	ISSUED FOR DOB FILING
	09/01/2016	DESIGN DEVELOPMENT SUBMISSION SET
	06/10/2016	SCHEMATIC DESIGN SUBMISSION SET

Client
HEATHERWOOD LUXURY RENTALS
58 Motor Parkway, Suite 100
Commack, NY 11725
T 631 775 2247 F 631 396 2185

ARCHITECT
HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007
F. 212 686 1754

INTERIOR DESIGNER
IN·SITE Interior Design, Inc.
845 Third Avenue, 6th Floor
New York, NY 10022
Tel: 646 290 5232 Fax: 646 290 5001

STRUCTURAL ENGINEER
SEVERUD ASSOCIATES
469 Seventh Avenue
New York, NY 10018
Tel: 212 986 3700 Fax: 212 687 6467

MEP/FP ENGINEER
WSP | PARSONS BRINCKERHOFF
512 Seventh Avenue
New York, NY 10018
Tel: 212 532 9600 Fax: 212 689 7489

EXTERIOR WALL CONSULTANT
CANY
134 West 29TH ST
New York, NY 10001
Tel: 212 414 9623 Fax: xxx xxx xxxx

VERTICAL TRANSPORTATION CONSULTANT
OTIS ELEVATOR
65 FAIRCHILD AVENUE
Plainview, NY 11803
Tel: 516 576 5974 Fax: xxx xxx xxxx

PROJECT
12 ECKFORD ST.
AKA
470 MANHATTAN AVENUE
BROOKLYN, NY

DOB BSCAN:

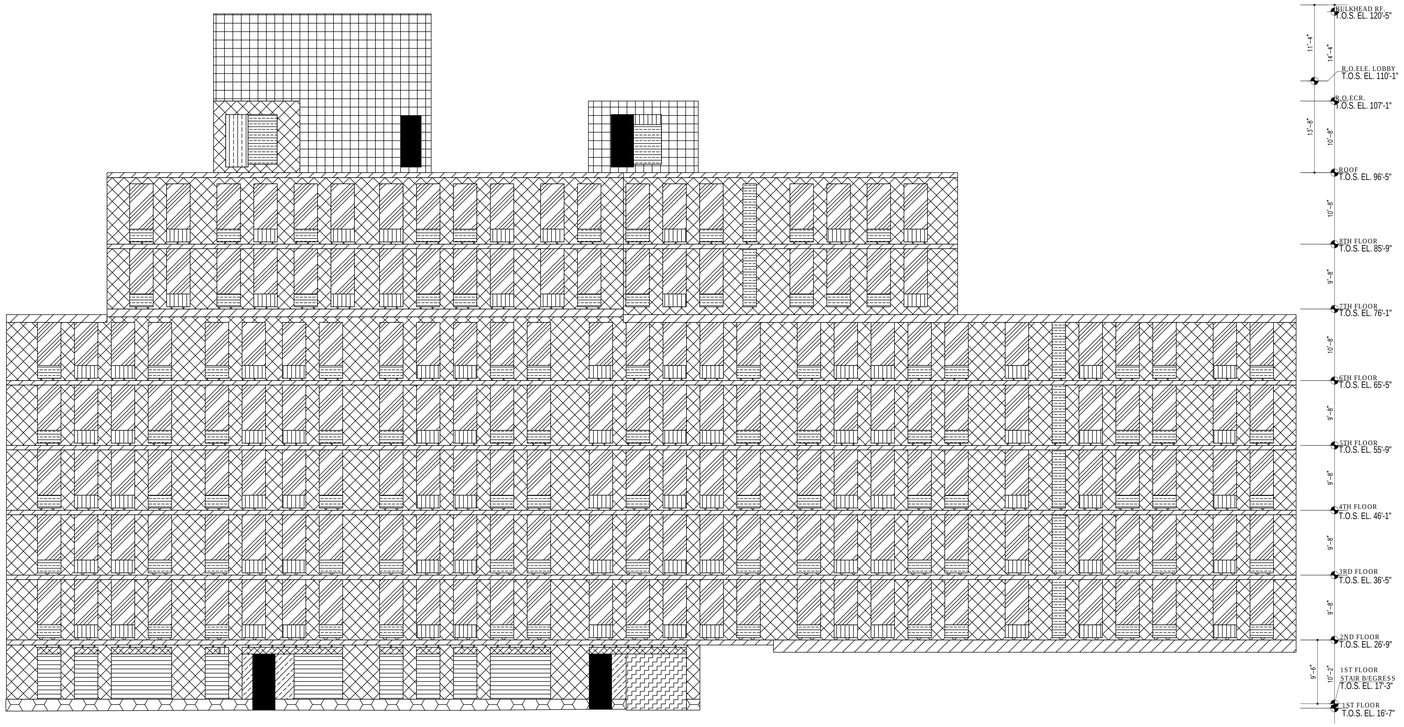
DOB STAMPS & SIGNATURES:
Victor Daza
APPROVED
Under Directive 2 of 1975
Date: 12/06/2018
NYC Development Hub

DWG TITLE
ZONING

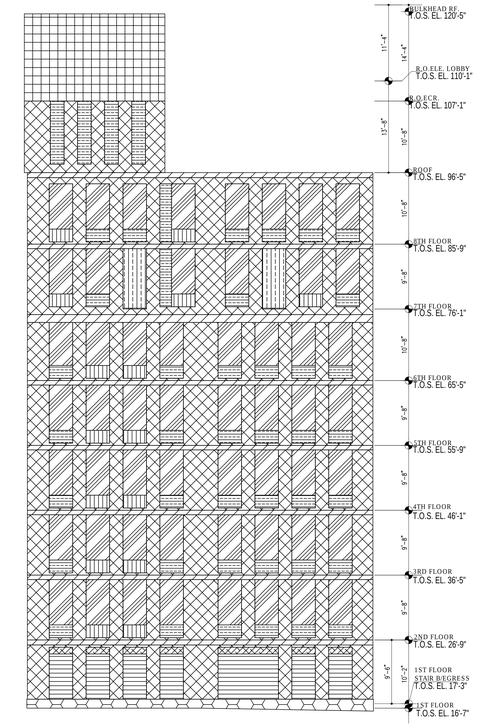
NEW BUILDING # : 320909772

SEAL & SIGNATURE:
REGISTERED ARCHITECT LEO STEPHEN HILL No. 028264 STATE OF NEW YORK

DATE: NOVEMBER 17, 2015
PROJECT #: 14A21
SCALE: AS NOTED
Z-001.00
DWG NO.
CAD FILE: J:\14A21_MANHATTAN AVE
SHEET 3 OF 137



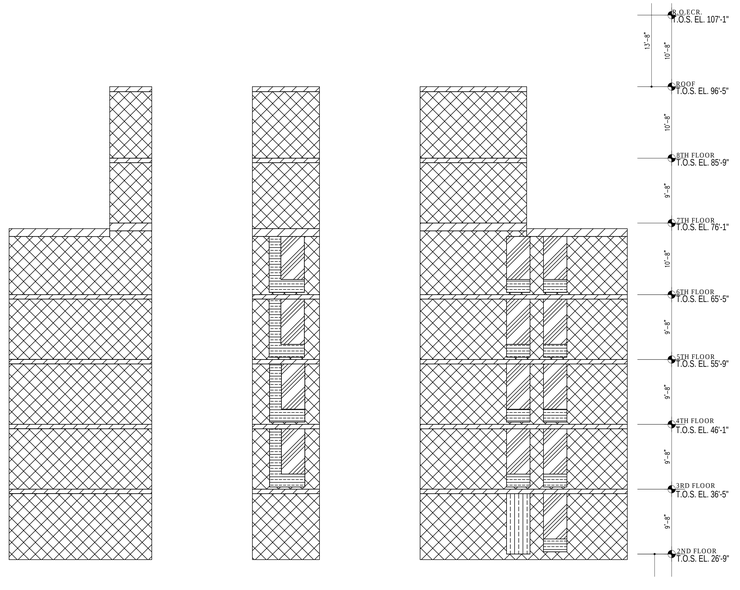
1 NEWTON STREET ELEVATION
1/16" = 1'-0"



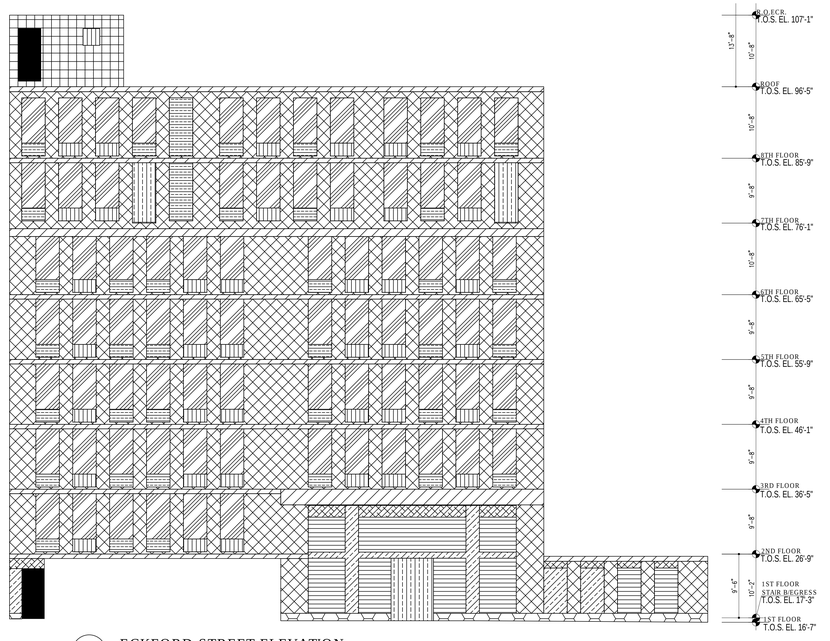
2 MANHATTAN AVE ELEVATION
1/16" = 1'-0"

	WALL	COMPONENT	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	TOTAL AREA	U-VALUE	AREA *U
	WT-1	BRICK @ STUD WALL	7144.76 SF	6930.36 SF	2849.61 SF	2399.01 SF	19323.74 SF	0.0479	925.607
	WT-2	BRICK @ CONC. SLAB	952.75 SF	1235.24 SF	555.65 SF	892.78 SF	3636.42 SF	0.0802	291.641
	WT-3	BRICK @ SHEAR WALL	1513.88 SF	837.04 SF	2182.06 SF	2986.19 SF	7519.17 SF	0.0872	655.672
	WT-4	BRICK @ CMU	281.96 SF				281.96 SF	0.0828	23.346
	WT-5	STONE WATER TABLE		144.78 SF		143.42 SF	289.56 SF	0.0574	16.621
	WT-6	INSULATED EXTERIOR CMU			1643.33 SF		1643.33 SF	0.1520	249.786
	WT-7	INSULATED CMU @ UNCONDITIONED SPACE	898.04 SF	404.81 SF	728.07 SF	103.25 SF	2134.17 SF	0.0713	152.166
	WT-8	EIFS @ CONCRETE			394.62 SF		394.62 SF	0.0638	25.177
	WT-9	EIFS @ CMU			739.23 SF		739.23 SF	0.0617	45.610
	WT-10	OPERABLE WINDOW	2457.29 SF	4289.54 SF	1777.08 SF	3141.25 SF	11665.16 SF	0.450	5249.322
	WT-11	FIXED WINDOW	552.12 SF	821.32 SF	609.55 SF	764.62 SF	2747.61 SF	0.380	1044.092
	WT-12	MECH. LOUVER	214.67 SF	591.29 SF	148.06 SF	385.00 SF	1339.02 SF	0.2062	276.106
	WT-13	ARCH. LOUVER (BLANK-OFF PANEL)		67.09 SF		99.03 SF	166.12 SF	0.0618	10.266
	WT-14	STOREFRONT GLAZING		312.25 SF		560.10 SF	872.35 SF	0.380	331.493
	WT-15	STOREFRONT METAL PANEL		44.44 SF		148.63 SF	193.07 SF	0.0425	8.205
	WT-16	METAL DOOR		104.46 SF	31.50 SF	50.94 SF	186.90 SF	0.077	14.391
	WT-17	GLASS DOOR	246.57 SF	26.07 SF	251.56 SF	184.98 SF	709.18 SF	0.77	546.069
	WT-18	ROLL-UP DOOR		75.38 SF			75.38 SF	0.09	6.784
		GLAZING AREA	3255.98 SF	5449.18 SF	2638.19 SF	4650.95 SF	15994.30 SF		
		OPAQUE WALL AREA	11006.06 SF	10030.08 SF	9272.13 SF	7054.06 SF	37362.33 SF		
		GLAZING+OPAQUE WALL AREA	14262.04 SF	15479.26 SF	11910.32 SF	11705.01 SF	53356.63 SF		
		GLAZING U*AREA	1505.45 SF	2381.12 SF	1225.02 SF	2059.39 SF	7170.98 SF		
		OPAQUE WALL U*AREA	682.30 SF	562.06 SF	776.78 SF	558.25 SF	2579.39 SF		

GLAZING PERCENTAGE		29.98%
GLAZING WEIGHTED U-VALUE		0.44
OPAQUE WALL WEIGHTED U-VALUE		0.07

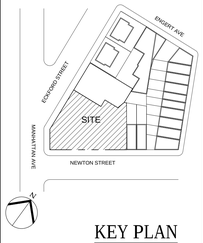


3 ECKFORD STREET ELEVATION
1/16" = 1'-0"



4 ECKFORD STREET ELEVATION
1/16" = 1'-0"

NOTES



KEY PLAN

Number:	Date:	Revision:
	06/22/2018	ISSUED FOR 100% CD
	05/15/2018	ISSUED TO DOB
	04/20/2018	ISSUED TO DOB
	10/20/2017	ISSUED TO DOB
	04/07/2017	ISSUED FOR DOB FILING
	03/03/2017	ISSUED FOR DOB FILING
	02/17/2017	ISSUED FOR 75% CD
	02/03/2017	ISSUED FOR DOB FILING
	12/02/2016	PROGRESS SET
	09/30/2016	ISSUED FOR DOB FILING
	09/01/2016	DESIGN DEVELOPMENT SUBMISSION SET
	06/10/2016	SCHEMATIC DESIGN SUBMISSION SET

Client

HEATHERWOOD LUXURY RENTALS

58 Motor Parkway, Suite 100
Commack, NY 11725
T 631 775 2247 F 631 396 2185

ARCHITECT

HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007
F. 212 686 1754

INTERIOR DESIGNER

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VERTICAL TRANSPORTATION CONSULTANT

OTIS ELEVATOR
65 FAIRCHILD AVENUE
Plainview, NY 11803
Tel: 516 576 5974 Fax: xxx xxx xxxx

PROJECT

12 ECKFORD ST.
AKA
470 MANHATTAN AVENUE
BROOKLYN, NY

DOB BSCAN:

DOB STAMPS & SIGNATURES:

DWG TITLE

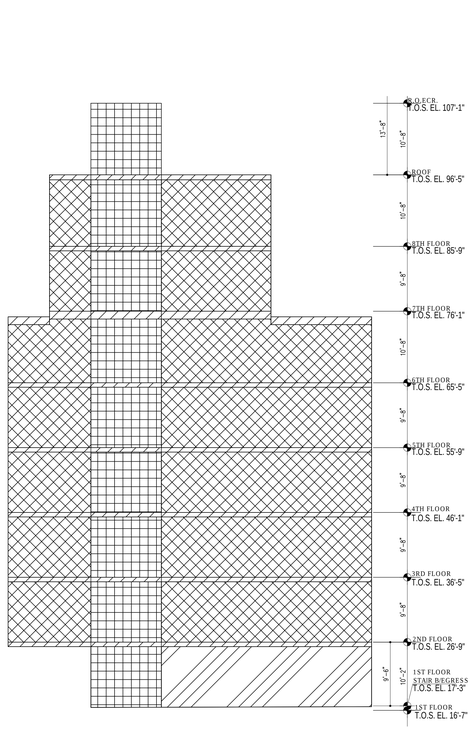
ENERGY ELEVATIONS

NEW BUILDING # : 320909772

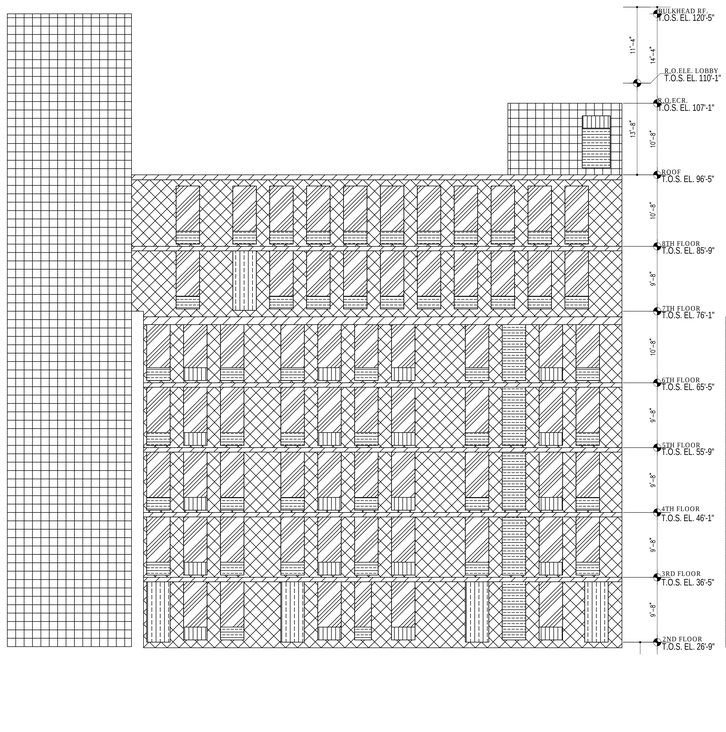
SEAL & SIGNATURE

REGISTERED ARCHITECT
LEO STEPHEN HILL
STATE OF NEW YORK

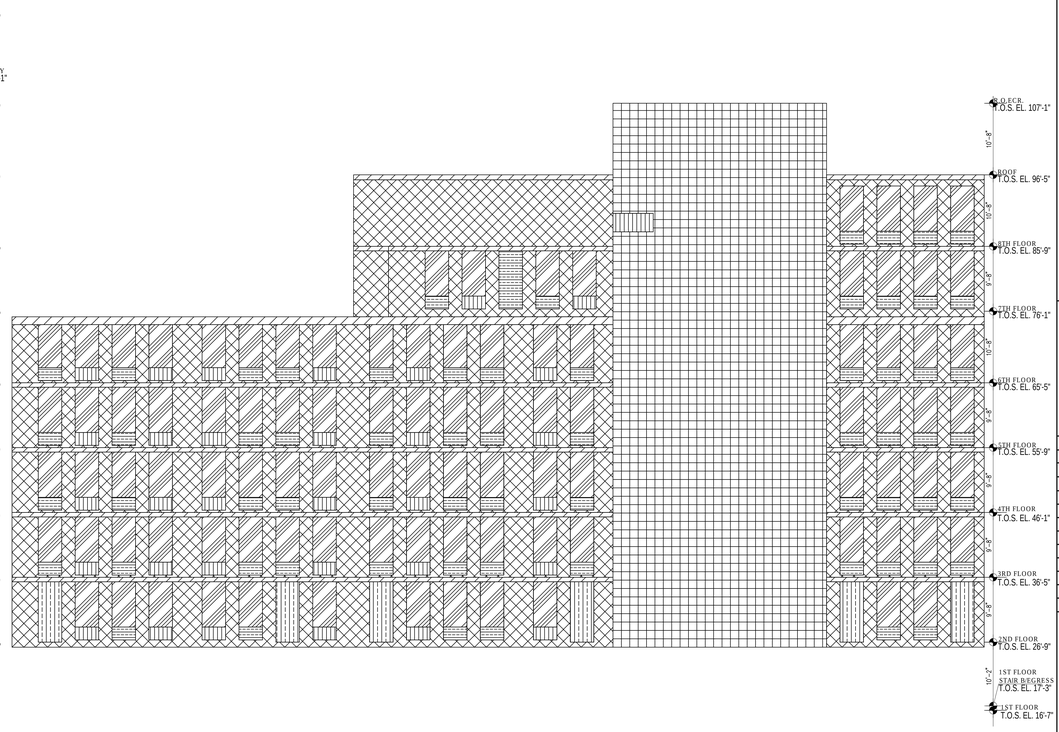
DATE: NOVEMBER 17, 2015
PROJECT #: 14321
SCALE: AS NOTED
DWG NO. EN-003.00
FILE: J:\14321_MANHATTAN AVE
SHEET 9 OF 137



1 ECKFORD STREET LOT LINE ELEVATION
1/16" = 1'-0"



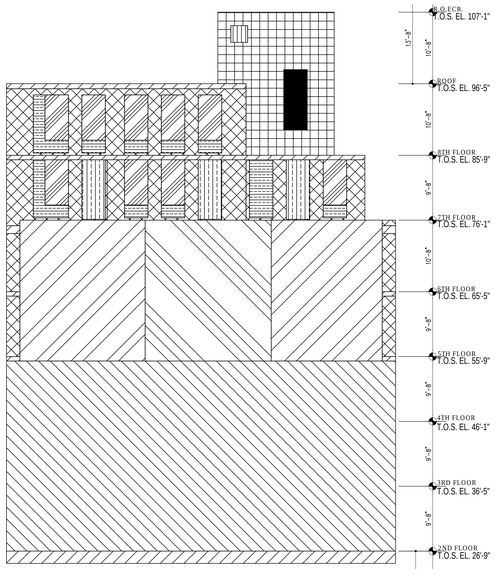
2 ECKFORD STREET REAR ELEVATION
1/16" = 1'-0"



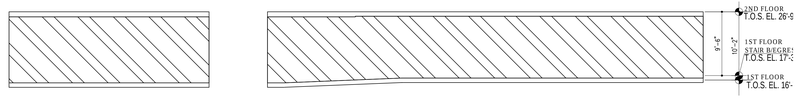
3 NEWTON STREET REAR ELEVATION
1/16" = 1'-0"

	WALL	COMPONENT	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	TOTAL AREA	U-VALUE	AREA *U
	WT-1	BRICK @ STUD WALL	7144.76 SF	6930.36 SF	2849.61 SF	2399.01 SF	19323.74 SF	0.0479	925.607
	WT-2	BRICK @ CONC. SLAB	952.75 SF	1235.24 SF	555.65 SF	892.78 SF	3636.42 SF	0.0802	291.641
	WT-3	BRICK @ SHEAR WALL	1513.88 SF	837.04 SF	2182.06 SF	2986.19 SF	7519.17 SF	0.0872	655.672
	WT-4	BRICK @ CMU	281.96 SF				281.96 SF	0.0828	23.346
	WT-5	STONE WATER TABLE		144.78 SF		143.42 SF	289.56 SF	0.0574	16.621
	WT-6	INSULATED EXTERIOR CMU			1643.33 SF		1643.33 SF	0.1520	249.786
	WT-7	INSULATED CMU @ UNCONDITIONED SPACE	898.04 SF	404.81 SF	728.07 SF	103.25 SF	2134.17 SF	0.0713	152.166
	WT-8	EIFS @ CONCRETE			394.62 SF		394.62 SF	0.0638	25.177
	WT-9	EIFS @ CMU			739.23 SF		739.23 SF	0.0617	45.610
	WT-10	OPERABLE WINDOW	2457.29 SF	4289.54 SF	1777.08 SF	3141.25 SF	11665.16 SF	0.450	5249.322
	WT-11	FIXED WINDOW	552.12 SF	821.32 SF	609.55 SF	764.62 SF	2747.61 SF	0.380	1044.092
	WT-12	MECH. LOUVER	214.67 SF	591.29 SF	148.06 SF	385.00 SF	1339.02 SF	0.2062	276.106
	WT-13	ARCH. LOUVER (BLANK-OFF PANEL)		67.09 SF		99.03 SF	166.12 SF	0.0618	10.266
	WT-14	STOREFRONT GLAZING		312.25 SF		560.10 SF	872.35 SF	0.380	331.493
	WT-15	STOREFRONT METAL PANEL		44.44 SF		148.63 SF	193.07 SF	0.0425	8.205
	WT-16	METAL DOOR		104.46 SF	31.50 SF	50.94 SF	186.90 SF	0.077	14.391
	WT-17	GLASS DOOR	246.57 SF	26.07 SF	251.56 SF	184.98 SF	709.18 SF	0.77	546.069
	WT-18	ROLL-UP DOOR		75.38 SF			75.38 SF	0.09	6.784
		GLAZING AREA	3255.98 SF	5449.18 SF	2638.19 SF	4650.95 SF	15994.30 SF		
		OPAQUE WALL AREA	11006.06 SF	10030.08 SF	9272.13 SF	7054.06 SF	37362.33 SF		
		GLAZING+OPAQUE WALL AREA	14262.04 SF	15479.26 SF	11910.32 SF	11705.01 SF	53356.63 SF		
		GLAZING U*AREA	1505.45 SF	2381.12 SF	1225.02 SF	2059.39 SF	7170.98 SF		
		OPAQUE WALL U*AREA	682.30 SF	562.06 SF	776.78 SF	558.25 SF	2579.39 SF		

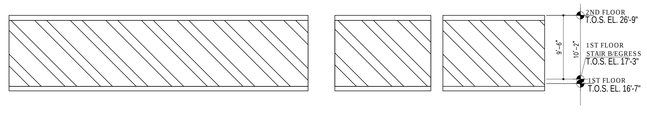
GLAZING PERCENTAGE		29.98%
GLAZING WEIGHTED U-VALUE		0.44
OPAQUE WALL WEIGHTED U-VALUE		0.07



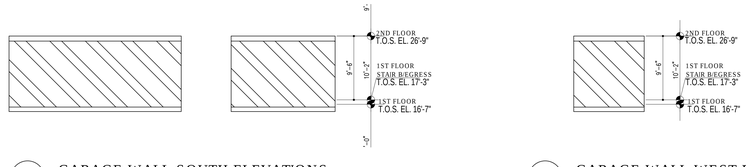
4 NEWTON STREET LOT LINE ELEVATION
1/16" = 1'-0"



5 GARAGE WALL NORTH ELEVATIONS
1/16" = 1'-0"

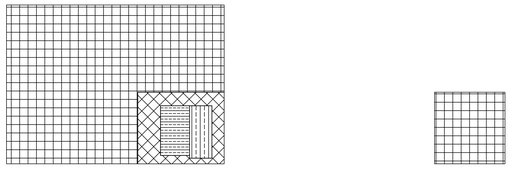


6 GARAGE WALL EAST ELEVATIONS
1/16" = 1'-0"



7 GARAGE WALL SOUTH ELEVATIONS
1/16" = 1'-0"

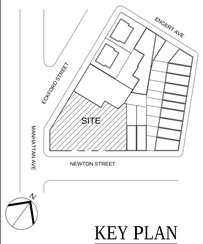
8 GARAGE WALL WEST ELEVATIONS
1/16" = 1'-0"



9 BULKHEAD NORTH ELEVATION
1/16" = 1'-0"

10 STAIR B BULKHEAD SOUTH ELEVATION
1/16" = 1'-0"

NOTES



KEY PLAN

Number:	Date:	Revision:
	06/22/2018	ISSUED FOR 100% CD
	05/15/2018	ISSUED TO DOB
	04/20/2018	ISSUED TO DOB
	10/20/2017	ISSUED TO DOB
	04/07/2017	ISSUED FOR DOB FILING
	03/03/2017	ISSUED FOR DOB FILING
	02/17/2017	ISSUED FOR 75% CD
	02/03/2017	ISSUED FOR DOB FILING
	12/02/2016	PROGRESS SET
	09/30/2016	ISSUED FOR DOB FILING
	09/01/2016	DESIGN DEVELOPMENT SUBMISSION SET
	06/10/2016	SCHEMATIC DESIGN SUBMISSION SET

Client

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ARCHITECT

HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
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F. 212 686 1754

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STRUCTURAL ENGINEER

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New York, NY 10018
Tel: 212 986 3700 Fax: 212 687 6467

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WSP | PARSONS BRINCKERHOFF
512 Seventh Avenue
New York, NY 10018
Tel: 212 532 9600 Fax: 212 689 7489

EXTERIOR WALL CONSULTANT

CANY
134 West 29TH ST
New York, NY 10001
Tel: 212 414 9623 Fax: xxx xxx xxxx

VERTICAL TRANSPORTATION CONSULTANT

OTIS ELEVATOR
65 FAIRCHILD AVENUE
Plainview, NY 11803
Tel: 516 576 5974 Fax: xxx xxx xxxx

PROJECT

12 ECKFORD ST.
AKA
470 MANHATTAN AVENUE
BROOKLYN, NY

DOB BSCAN:

DOB STAMPS & SIGNATURES:

DWG TITLE

ENERGY ELEVATIONS

NEW BUILDING # : 320909772

SEAL & SIGNATURE:

REGISTERED ARCHITECT
LEO STEPHEN HILL
No. 026150
STATE OF NEW YORK

DATE: NOVEMBER 17, 2015
PROJECT #: 14321
SCALE: AS NOTED
DWG NO. EN-004.00

FILE: J:\14321_MANHATTAN AVE
SHEET 1 0 OF 137

NOTES

KEY PLAN

12 ECKFORD STREET
FOUNDATION ENERGY ANALYSIS

ENERGY COMPLIANCE CLASSIFICATION:	RESIDENTIAL
CLIMATE ZONE:	4A
STANDARD USED:	NYCECC 2016

STATEMENT OF COMPLIANCE - RESIDENTIAL

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PERSONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

BELOW GRADE WALLS		
EXISTING FOUNDATION 12 IN CONC.	0.75	ALL REFERENCE FROM ASHRAE 90.1 - 2013 APPENDIX A
2IN XPS	10.00	
$\Sigma(R_f...R_n)=$	10.75	
$C_{ass}=1/\Sigma(R_f...R_n)=$	0.085	
$C_{max}=$	0.119	

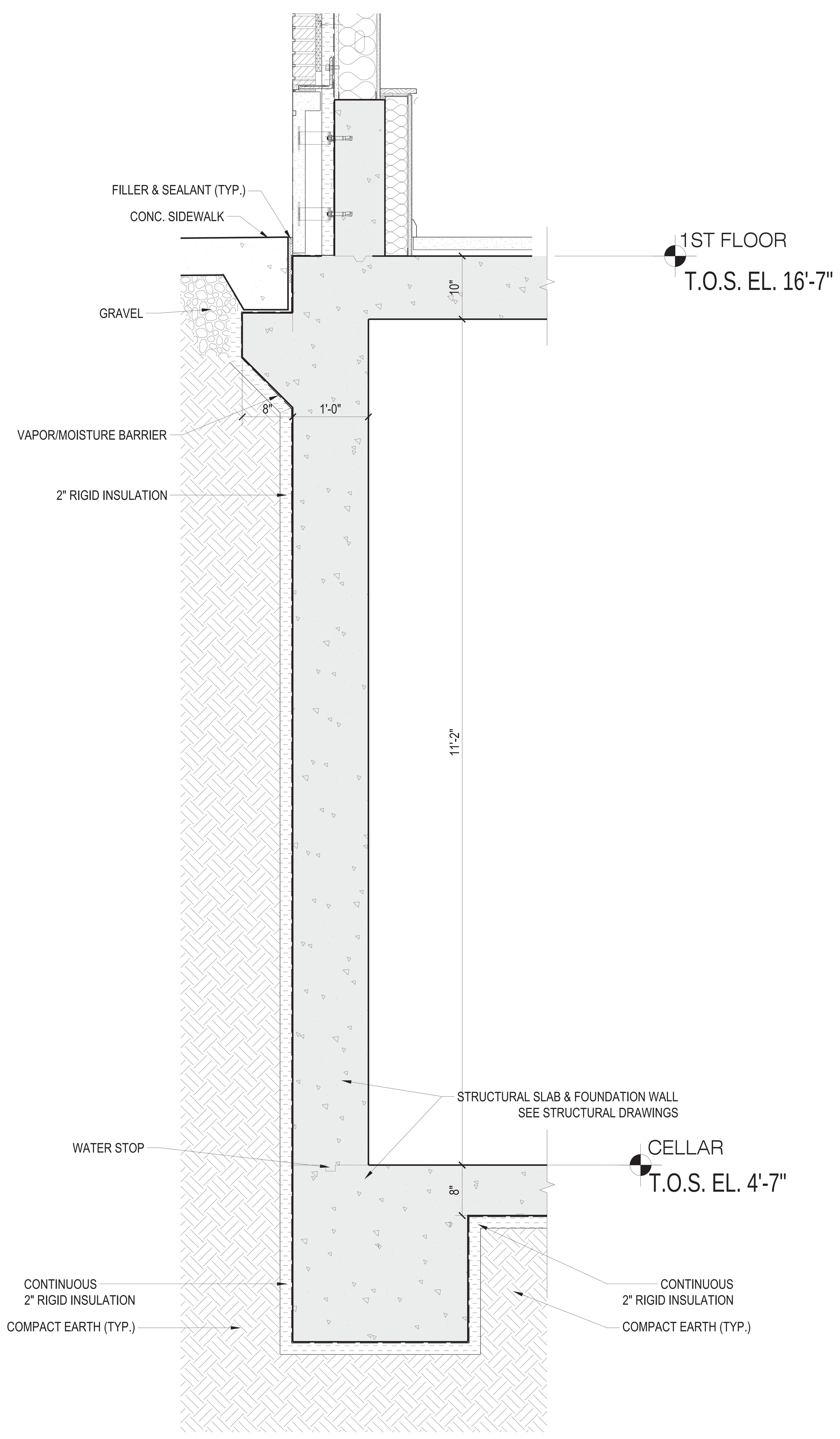
NYC ECC 2016
C402.1.4
ASSEMBLY U FACTOR, C FACTOR OF F FACTOR BASED METHOD
"...THE C FACTOR OF BELOW GRADE EXTERIOR WALLS OF THE BUILDING ENVELOPE AS REQUIRED IN ACCORDANCE WITH C402.1.4 SHALL EXTEND TO A DEPTH OF 10 FEET BELOW THE OUTSIDE FINISHED GROUND LEVEL OF THE LEVEL OF THE LOWEST FLOOR WHICH EVER IS LESS."

ENERGY ANALYSIS PER 2016 NYC ECC

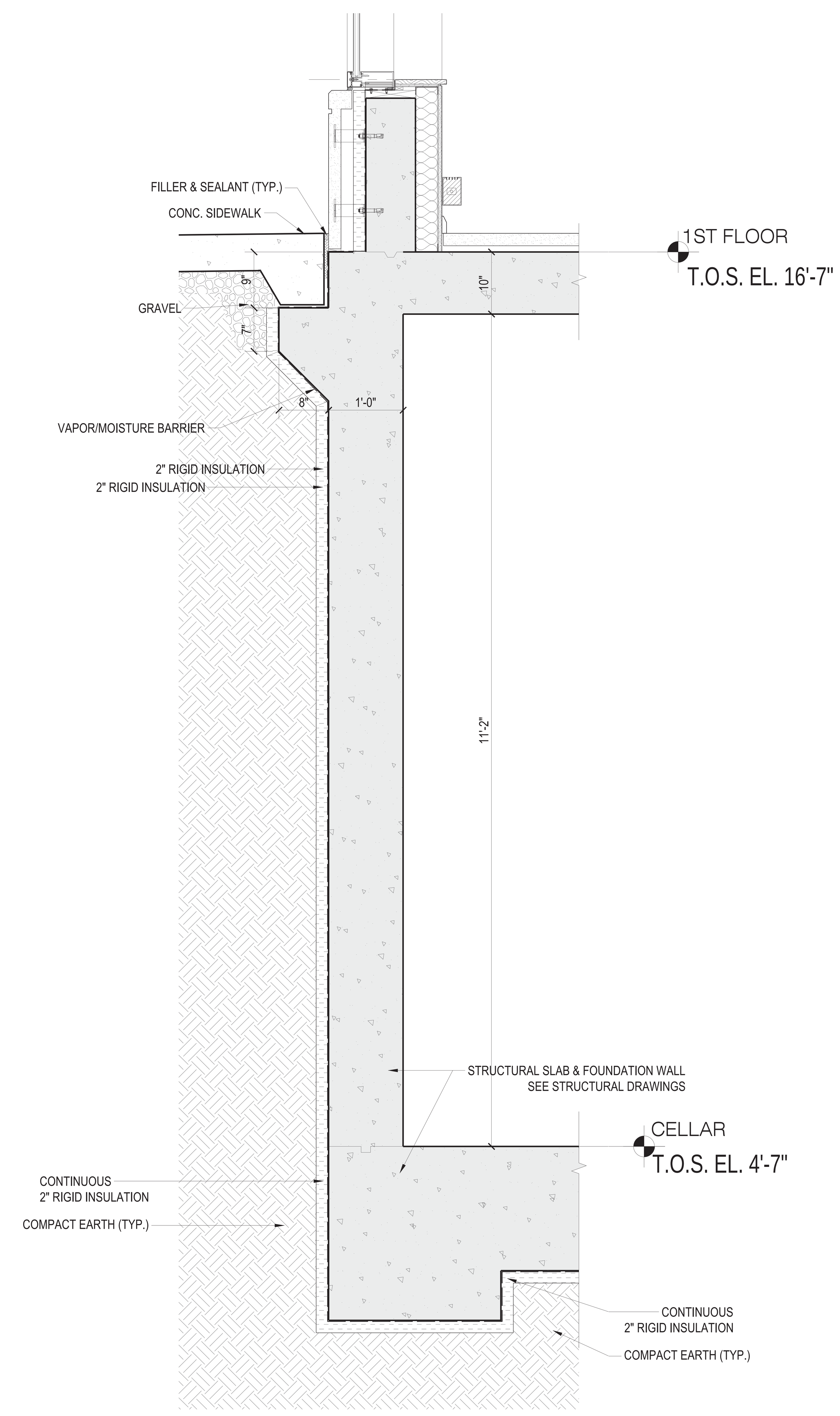
CITATION	ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE	SUPPORT DOCUMENTATION
INSPECTION / TEST	THERMAL RESISTANCE OF BELOWGRADE WALLS	SEE ABOVE	C FACTOR 0.119	SEE DETAIL

TABLE II PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE -RESIDENTIAL BUILDINGS

	INSPECTION / TEST	FREQUENCY (MINIMUM)	REFERENCE STANDARD (SEE ECC CHAPTER 6) OR OTHER CRITERIA	NYCECC CITATION
IIA				
IIA 1	PROTECTION OF EXPOSED FOUNDATION INSULATION: INSULATION SHALL BE VISUALLY INSPECTED TO VERIFY PROPERTY PROTECTION WHERE APPLIED TO THE EXTERIOR OF BASEMENT CELLAR WALLS, CRAWL-SPACE WALLS AND/OR THE PERIMETER OF SLAB-ON-GRADE FLOORS.	AS REQUIRED DURING FOUNDATION WORK AND PRIOR TO BACKFILL	APPROVED CONSTRUCTION DOCUMENTS	C303.2.1
IIA 2	INSULATION PLACEMENT AND R-VALUES: INSTALLED INSULATION FOR EACH COMPONENT OF THE CONDITIONED SPACE ENVELOPE AND AT JUNCTIONS BETWEEN COMPONENTS SHALL BE VISUALLY INSPECTED TO ENSURE THAT THE R-VALUE ARE MARKED,THAT SUCH R-VALUES CONFORM TO THE R-VALUES IDENTIFIED IN THE CONSTRUCTION DOCUMENTS AND THAT THE INSULATION IS PROPERLY INSTALLED. CERTIFICATIONS FOR UNMARKED INSULATION SHALL BE SIMILARLY VISUALLY INSPECTED.	AS REQUIRED TO VERIFY CONTINUOUS ENCLOSURE WHILE WALLS, CEILINGS AND FLOORS ARE OPEN.	APPROVED CONSTRUCTION DOCUMENTS	C303.1, C303.1.1, C303.1.2, C402.1, C402.2



1 FOUNDATION @ PERIMETER
1" = 1'-0"



2 FOUNDATION @ PILE CAP
1" = 1'-0"

NOTE:
ALL EXTERIOR ENVELOPE COMPONENT ASSEMBY DETAILS SHOWN ON THIS SHEET ARE FOR THE PURPOSE OF DETAILING THERMAL, PERFORMANCE ONLY. NO WATER-PROOFING, SOUND ATTENUATION, OR STRUCTURAL CAPACITY IS REPRESENTED, AND CANNOT BE CONSTRUED AS SUCH.

	06/22/2018	ISSUED FOR 100% CD
	06/15/2018	ISSUED FOR 100% FOUNDATION
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	04/20/2018	ISSUED TO DOB
	10/20/2017	ISSUED TO DOB
	04/07/2017	ISSUED FOR DOB FILING
	03/03/2017	ISSUED FOR DOB FILING
	02/17/2017	ISSUED FOR 75% CD
	02/03/2017	ISSUED FOR DOB FILING
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VERTICAL TRANSPORTATION CONSULTANT
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PROJECT
12 ECKFORD ST.
AKA
470 MANHATTAN AVENUE
BROOKLYN, NY

DOB BSCAN:

DOB STAMPS & SIGNATURES:
Victor Daza
APPROVED
Under Directive 2 of 1975
Date: 12/06/2018
NYC Development Hub

DWG TITLE
FOUNDATION WALL ENERGY COMPLIANCE

NEW BUILDING # : 320909772

SEAL & SIGNATURE:
REGISTERED ARCHITECT LEO STEPHEN HILL STATE OF NEW YORK No. 028264 EXCELSIOR

DATE: NOVEMBER 17, 2015
PROJECT #: 14A21
SCALE: AS NOTED
EN-005.00
DWG NO.
CAD FILE: J:\14A21_MANHATTAN AVE
SHEET 9 OF 137

T.O.S. DESIGN ELV: 4.58

-2 7/8"=4.34'
-2 3/4"=4.35'
-2 5/8"=4.36'
-2 1/2"=4.37'
-2 3/8"=4.38'
-2 1/4"=4.39'
-2 1/8"=4.40'
-2"=4.41'
-1 7/8"=4.42'
-1 3/4"=4.43'
-1 5/8"=4.45'
-1 1/2"=4.46'
-1 3/8"=4.47'
-1 1/4"=4.48'
-1 1/8"=4.49'
-1" = 4.50'
-7/8" = 4.51'
-3/4" = 4.52'
-5/8" = 4.53'
-1/2" = 4.54'
-3/8" = 4.55'
-1/4" = 4.56'
-1/8" = 4.57'

+1/8" = 4.59'
+1/4" = 4.60'
+3/8" = 4.61'
+1/2" = 4.62'
+5/8" = 4.63'
+3/4" = 4.64'
+7/8" = 4.65'
+1" = 4.66'

CONVERSION TABLE	
DECIMAL	INCHES
0.08'	1"
0.17'	2"
0.25'	3"
0.33'	4"
0.42'	5"
0.50'	6"
0.58'	7"
0.67'	8"
0.75'	9"
0.83'	10"
0.92'	11"
1.00'	12"

LEGEND

+ – CROSS CUT
⊼ – BENCHMARK SET
→ – MARK SET
W/L – WORKING LINE
P/L – PROPERTY LINE
xx.xx – TOP OF SLAB ELEVATION
U.xx.xx – UNDERSIDE OF SLAB ELEVATION

ELEVATION CONVERSION:

ALL ELEVATIONS SHOWN ARE REFERRED TO NAVD88 (NORTH AMERICAN VERTICAL DATUM OF 1988)

FOR NGVD29 DATUM ADD 1.10'
FOR BROOKLYN DATUM SUBTRACT 1.46'

10.00' (BROOKLYN DATUM) = 12.56' (NGVD29) = 11.46' (NAVD88)

BACKGROUND FLOOR LAYOUT ACQUIRED FROM PLANS FO–100.00 TITLED "CELLAR/FOUNDATION FRAMING PLAN"
DATED – 06–22–2018 "ISSUED FOR 100% CD"
JOB TITLE – 12 ECKFORD STREET A.K.A. 470 MANHATTAN AVENUE, BROOKLYN, NEW YORK
OWNER – HEATHERWOOD LUXURY RENTALS
ARCHITECT – WILL | WEST ARCHITECTS

GeoLand
LAND SURVEYING P.C.
Phone: (718) 701-5030 www.GeoLandCorp.com
Fax: (718) 701-2265 Email: info@geolandcorp.com
1317 Park Ave, New Hyde Park, NY 11040

REVISIONS DESCRIPTION	DATE	JOB NO.
1. FOUNDATION LOCATION AND ELEVATION GRID – CELLAR	06–20–2019	GLS19225_C

PROJECT ADDRESS:
#105–#125 NEWTON STREET, #470 MANHATTAN AVENUE,
#16 ECKFORD STREET,
BROOKLYN, KINGS CO., NEW YORK
BLOCK ... 2714 LOTS ... 33

DRAWN BY: P.KW.
SCALE: 1" = 16'
SURVEYED FOR:
J. PETROCELLI CONTRACTING, INC.

CERTIFIED TO:

Certification indicated hereon signify that this survey was prepared in accordance with the existing Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors. Said certifications shall run only to the person for whom the survey is prepared, and on his behalf to the title company, governmental agency and lending institution listed hereon, and to the assignees of the lending institution.
Certifications are not transferable to additional institutions or subsequent owner. Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of section 7209, sub-division 2, of the New York State Education Law.
Only copies from the original of this survey marked with an original of the land surveyor's embossed seal shall be considered to be valid true copies.

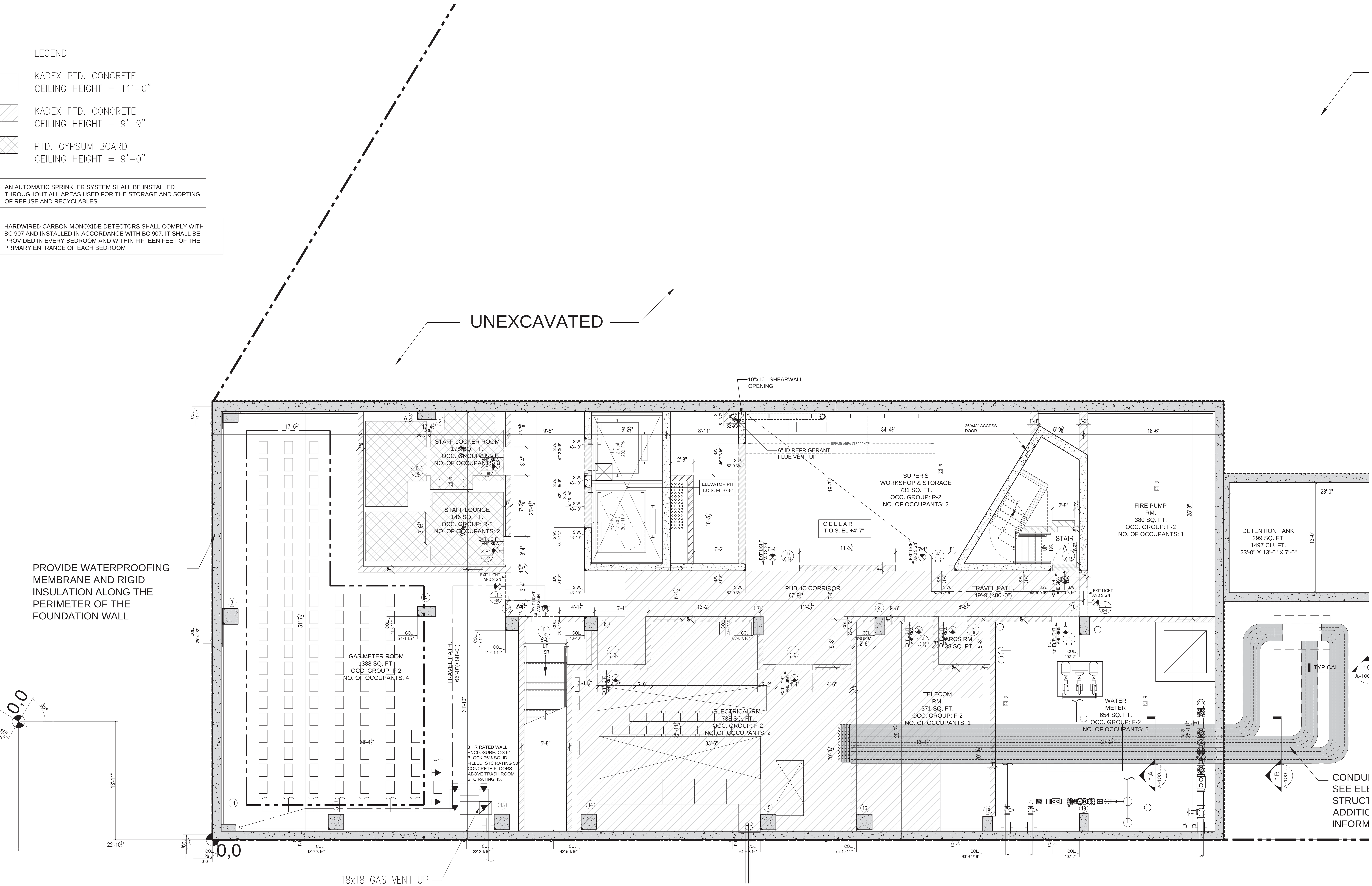
PAWEL KOPCINSKI, N.Y.S. L.L.S. 050881

LEGEND

(no fill)	KADEX PTD. CONCRETE CEILING HEIGHT = 11'-0"
(hatched)	KADEX PTD. CONCRETE CEILING HEIGHT = 9'-9"
(stippled)	PTD. GYPSUM BOARD CEILING HEIGHT = 9'-0"

* AN AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT ALL AREAS USED FOR THE STORAGE AND SORTING OF REFUSE AND RECYCLABLES.

* HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH BC 907 AND INSTALLED IN ACCORDANCE WITH BC 907. IT SHALL BE PROVIDED IN EVERY BEDROOM AND WITHIN FIFTEEN FEET OF THE PRIMARY ENTRANCE OF EACH BEDROOM



1 CELLAR - RCP

1/8" = 1'-0"

NOTES

KEY PLAN

Number	Date	Revision
	11/02/2018	ISSUED TO DOB
	10/19/2018	BULLETIN #1
	09/24/2018	ISSUED TO DOB
	08/30/2018	ISSUED TO DOB
	06/22/2018	ISSUED FOR 100% CD
	05/15/2018	ISSUED TO DOB
	04/20/2018	ISSUED TO DOB
	10/20/2017	ISSUED TO DOB
	04/07/2017	ISSUED FOR DOB FILING
	03/03/2017	ISSUED FOR DOB FILING
	02/17/2017	ISSUED FOR 75% CD
	02/03/2017	ISSUED FOR DOB FILING
	12/02/2016	PROGRESS SET
	09/30/2016	ISSUED FOR DOB FILING
	08/01/2016	DESIGN DEVELOPMENT SUBMISSION SET
	06/10/2016	SCHEMATIC DESIGN SUBMISSION SET

Client

HEATHERWOOD LUXURY RENTALS

58 Motor Parkway, Suite 100
Commack, NY 11725
T 631 775 2247 F 631 396 2185

ARCHITECT

HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007
F. 212 686 1754

INTERIOR DESIGNER

IN-SITE Interior Design, Inc.
845 Third Avenue, 6th Floor
New York, NY 10022
Tel: 646 290 5232 Fax: 646 290 5001

STRUCTURAL ENGINEER

SEVERUD ASSOCIATES
469 Seventh Avenue
New York, NY 10018
Tel: 212 986 3700 Fax: 212 687 6467

MEP/FP ENGINEER

WSP | PARSONS BRINCKERHOFF
512 Seventh Avenue
New York, NY 10018
Tel: 212 532 9600 Fax: 212 689 7489

EXTERIOR WALL CONSULTANT

CANY
134 West 29TH ST
New York, NY 10001
Tel: 212 414 9623 Fax: xxx xxx xxxx

VERTICAL TRANSPORTATION CONSULTANT

OTIS ELEVATOR
65 FAIRCHILD AVENUE
Plainview, NY 11803
Tel: 516 576 5974 Fax: xxx xxx xxxx

PROJECT

12 ECKFORD ST.
AKA
470 MANHATTAN AVENUE
BROOKLYN, NY

DOB BSCAN:

DOB STAMPS & SIGNATURES:

Victor Daza
APPROVED
Under Directive 2 of 1975
Date: 12/06/2018
NYC Development Hub

DWG TITLE

CELLAR - RCP

NEW BUILDING # : 320909772

SEAL & SIGNATURE:

DATE: NOVEMBER 17, 2015
PROJECT #: 14421
SCALE: AS NOTED

A-700.00

DWG NO.

SHEET 119 137

LEGEND

KADEX PTD. CONCRETE
CEILING HEIGHT = 9'-2"
(10'-5" IN FITNESS CENTER)

2 HR RATED CEILING
PTD. GYPSUM BOARD
CEILING HEIGHT = 9'-3"

2 HR RATED CEILING
PTD. GYPSUM BOARD
CEILING HEIGHT = 8'-8"

PTD. GYPSUM BOARD
CEILING HEIGHT = 8'-0"

S
CM
SMOKE/ CARBON MONOXIDE DETECTORS

2 HR RATED CEILING
CEILING HEIGHT = 8'-0"

REQUIRED 98" CLEAR HEIGHT

5

* AN AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT ALL AREAS USED FOR THE STORAGE AND SORTING OF REFUSE AND RECYCLABLES.

* HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH BC 907 AND INSTALLED IN ACCORDANCE WITH BC 907. IT SHALL BE PROVIDED IN EVERY BEDROOM AND WITHIN FIFTEEN FEET OF THE PRIMARY ENTRANCE OF EACH BEDROOM

1 1ST FLOOR - RCP
1/8" = 1'-0"

NOTES

KEY PLAN

Number:	Date:	Revision:
	05/29/2019	BULLETIN #5
	11/02/2018	ISSUED TO DOB
	10/19/2018	BULLETIN #1
	09/24/2018	ISSUED TO DOB
	08/30/2018	ISSUED TO DOB
	06/22/2018	ISSUED FOR 100% CD
	05/15/2018	ISSUED TO DOB
	04/20/2018	ISSUED TO DOB
	10/20/2017	ISSUED TO DOB
	04/07/2017	ISSUED FOR DOB FILING
	03/03/2017	ISSUED FOR DOB FILING
	02/17/2017	ISSUED FOR 75% CD
	02/03/2017	ISSUED FOR DOB FILING
	12/02/2016	PROGRESS SET
	09/30/2016	ISSUED FOR DOB FILING
	09/01/2016	DESIGN DEVELOPMENT SUBMISSION SET
	06/10/2016	SCHEMATIC DESIGN SUBMISSION SET

Client

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58 Motor Parkway, Suite 100
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T 631 775 2247 F 631 396 2185

ARCHITECT

HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007
F. 212 686 1754

INTERIOR DESIGNER

IN·SITE INTERIOR DESIGN
1250 BROADWAY, 36TH FLOOR
New York, NY 10001
Tel: 646 448 6662

STRUCTURAL ENGINEER

SEVERUD ASSOCIATES
469 Seventh Avenue
New York, NY 10018
Tel: 212 986 3700 Fax: 212 687 6467

MEP/FP ENGINEER

WSP | PARSONS BRINCKERHOFF
512 Seventh Avenue
New York, NY 10018
Tel: 212 532 9600 Fax: 212 689 7489

EXTERIOR WALL CONSULTANT

CANY
134 West 29TH ST
New York, NY 10001
Tel: 212 414 9623 Fax: xxx xxx xxxx

VERTICAL TRANSPORTATION CONSULTANT

OTIS ELEVATOR
65 FAIRCHILD AVENUE
Plainview, NY 11803
Tel: 516 576 5974 Fax: xxx xxx xxxx

PROJECT

12 ECKFORD ST.
AKA
470 MANHATTAN AVENUE
BROOKLYN, NY

DOB BSCAN:

DOB STAMPS & SIGNATURES:

DWG TITLE

1ST FLOOR - RCP

NEW BUILDING # : 320909772

SEAL & SIGNATURE: REGISTERED ARCHITECT STEPHEN HILL STATE OF NEW YORK

DATE: NOVEMBER 17, 2015
PROJECT # 14421
SCALE: AS NOTED
DWG NO. A-701.00

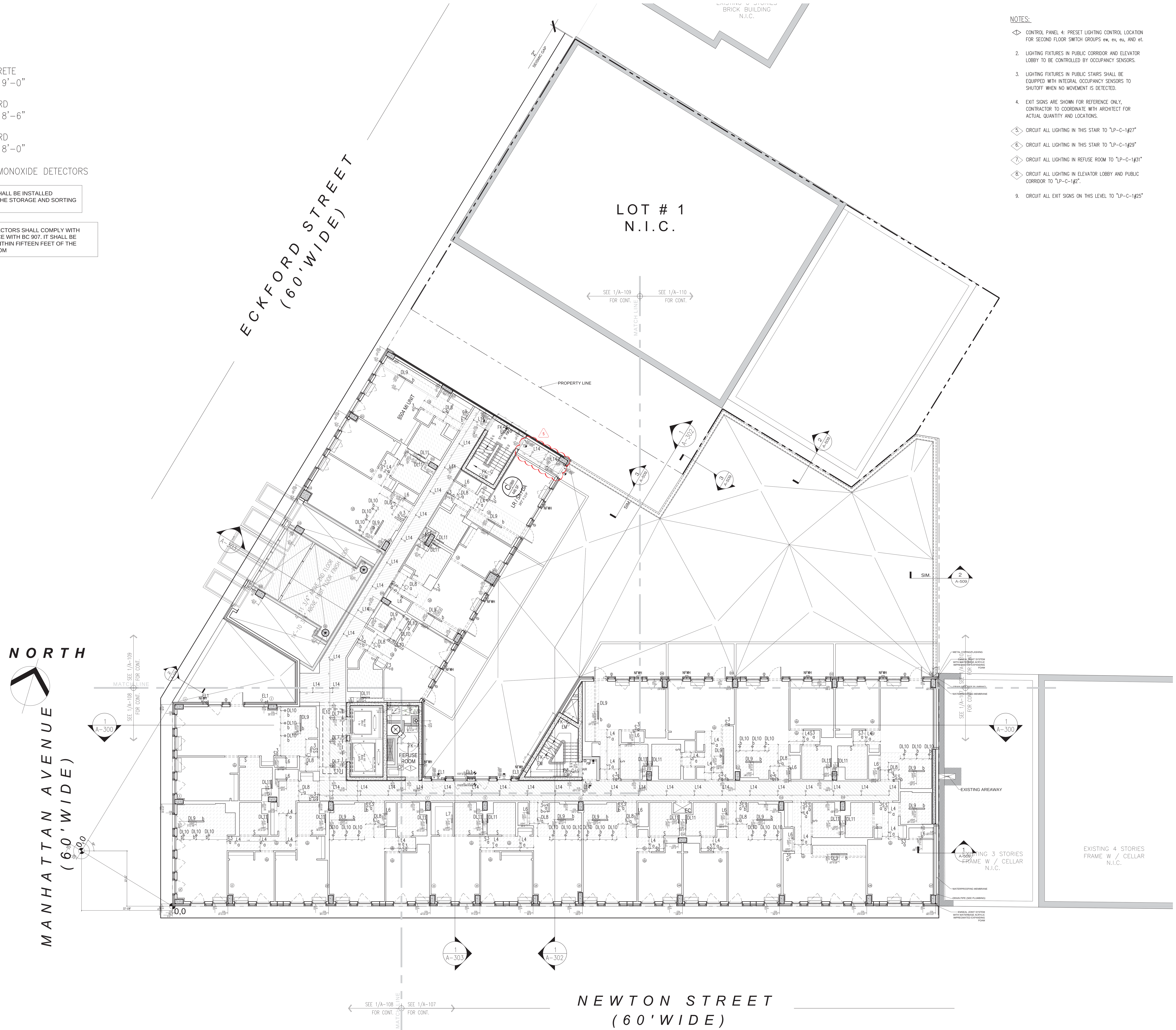
FILE: J:\14421_MANHATTAN AVE
SHEET 125 OF 145

LEGEND

- KADEX PTD. CONCRETE CEILING HEIGHT = 9'-0"
- PTD. GYPSUM BOARD CEILING HEIGHT = 8'-6"
- PTD. GYPSUM BOARD CEILING HEIGHT = 8'-0"
- S / CM SMOKE/ CARBON MONOXIDE DETECTORS

* AN AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT ALL AREAS USED FOR THE STORAGE AND SORTING OF REFUSE AND RECYCLABLES.

* HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH BC 907 AND INSTALLED IN ACCORDANCE WITH BC 907. IT SHALL BE PROVIDED IN EVERY BEDROOM AND WITHIN FIFTEEN FEET OF THE PRIMARY ENTRANCE OF EACH BEDROOM



1 2ND FLOOR - RCP
1/8" = 1'-0"

NOTES:

1. CONTROL PANEL 4: PRESET LIGHTING CONTROL LOCATION FOR SECOND FLOOR SWITCH GROUPS ew, ev, eu, AND et.
2. LIGHTING FIXTURES IN PUBLIC CORRIDOR AND ELEVATOR LOBBY TO BE CONTROLLED BY OCCUPANCY SENSORS.
3. LIGHTING FIXTURES IN PUBLIC STAIRS SHALL BE EQUIPPED WITH INTEGRAL OCCUPANCY SENSORS TO SHUTOFF WHEN NO MOVEMENT IS DETECTED.
4. EXIT SIGNS ARE SHOWN FOR REFERENCE ONLY, CONTRACTOR TO COORDINATE WITH ARCHITECT FOR ACTUAL QUANTITY AND LOCATIONS.
5. CIRCUIT ALL LIGHTING IN THIS STAIR TO "LP-C-1#27"
6. CIRCUIT ALL LIGHTING IN THIS STAIR TO "LP-C-1#29"
7. CIRCUIT ALL LIGHTING IN REFUSE ROOM TO "LP-C-1#31"
8. CIRCUIT ALL LIGHTING IN ELEVATOR LOBBY AND PUBLIC CORRIDOR TO "LP-C-1#2".
9. CIRCUIT ALL EXIT SIGNS ON THIS LEVEL TO "LP-C-1#25"

NOTES

KEY PLAN

Number:	Date:	Revision:
	05/29/2019	BULLETIN #5
	11/02/2018	ISSUED TO DOB
	10/19/2018	BULLETIN #1
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	08/30/2018	ISSUED TO DOB
	06/22/2018	ISSUED FOR 100% CD
	05/15/2018	ISSUED TO DOB
	04/20/2018	ISSUED TO DOB
	10/20/2017	ISSUED TO DOB
	04/07/2017	ISSUED FOR DOB FILING
	03/03/2017	ISSUED FOR DOB FILING
	02/17/2017	ISSUED FOR 75% CD
	02/03/2017	ISSUED FOR DOB FILING
	12/02/2016	PROGRESS SET
	09/30/2016	ISSUED FOR DOB FILING
	09/01/2016	DESIGN DEVELOPMENT SUBMISSION SET
	06/10/2016	SCHEMATIC DESIGN SUBMISSION SET

Client

HEATHERWOOD LUXURY RENTALS
58 Motor Parkway, Suite 100
Commack, NY 11725
T 631 775 2247 F 631 396 2185

ARCHITECT

HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007
F. 212 686 1754

INTERIOR DESIGNER

IN·SITE INTERIOR DESIGN
1250 BROADWAY, 36TH FLOOR
New York, NY 10001
Tel: 646 448 6662

STRUCTURAL ENGINEER

SEVERUD ASSOCIATES
469 Seventh Avenue
New York, NY 10018
Tel: 212 986 3700 Fax: 212 687 6467

MEP/FP ENGINEER

WSP | PARSONS BRINCKERHOFF
512 Seventh Avenue
New York, NY 10018
Tel: 212 532 9600 Fax: 212 689 7489

EXTERIOR WALL CONSULTANT

CANY
134 West 29TH ST
New York, NY 10001
Tel: 212 414 9623 Fax: xxx xxx xxxx

VERTICAL TRANSPORTATION CONSULTANT

OTIS ELEVATOR
65 FAIRCHILD AVENUE
Plainview, NY 11803
Tel: 516 576 5974 Fax: xxx xxx xxxx

PROJECT

12 ECKFORD ST.
AKA
470 MANHATTAN AVENUE
BROOKLYN, NY

DOB BSCAN:

DOB STAMPS & SIGNATURES:

DWG TITLE

2ND FLOOR - RCP

NEW BUILDING # : 320909772

SEAL & SIGNATURE:

REGISTERED ARCHITECT LEO STEPHEN HILL No. 028264 STATE OF NEW YORK

DATE: NOVEMBER 17, 2015

PROJECT #: 14A21

SCALE: AS NOTED

A-702.00

DWG NO.

CAD FILE: J:\14A21_MANHATTAN AVE

SHEET 126 OF 145

LEGEND

- KADEX PTD. CONCRETE CEILING HEIGHT = 9'-0"
- PTD. GYPSUM BOARD CEILING HEIGHT = 8'-6"
- PTD. GYPSUM BOARD CEILING HEIGHT = 8'-0"
- S/CM SMOKE/ CARBON MONOXIDE DETECTORS

* AN AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT ALL AREAS USED FOR THE STORAGE AND SORTING OF REFUSE AND RECYCLABLES.

* HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH BC 907 AND INSTALLED IN ACCORDANCE WITH BC 907. IT SHALL BE PROVIDED IN EVERY BEDROOM AND WITHIN FIFTEEN FEET OF THE PRIMARY ENTRANCE OF EACH BEDROOM

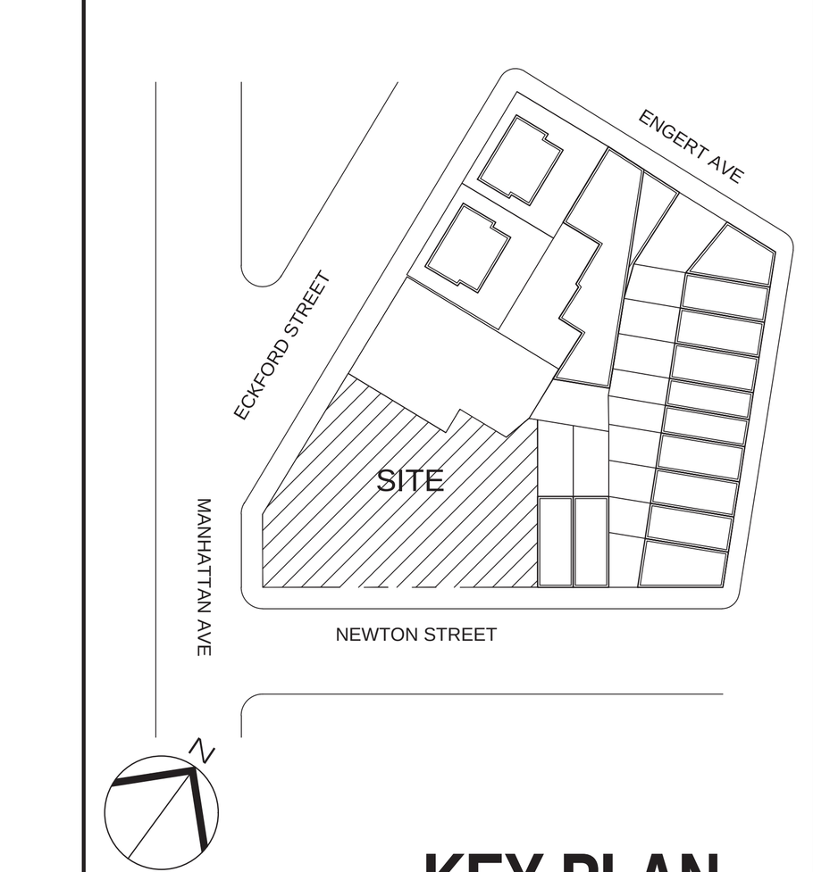
NOTES:

1. LIGHTING FIXTURES IN PUBLIC CORRIDOR AND ELEVATOR LOBBY TO BE CONTROLLED BY OCCUPANCY SENSORS.
2. LIGHTING FIXTURES IN PUBLIC STAIRS SHALL BE EQUIPPED WITH INTEGRAL OCCUPANCY SENSORS TO DIM FIXTURES TO 50% WHEN NO MOVEMENT IS DETECTED.
3. EXIT SIGNS ARE SHOWN FOR REFERENCE ONLY, CONTRACTOR TO OCCUPANCY SENSORS TO SHUTOFF WHEN NO MOVEMENT IS DETECTED.
4. CIRCUIT ALL LIGHTING IN THIS STAIR TO "LP-C-1#27"
5. CIRCUIT ALL LIGHTING IN THIS STAIR TO "LP-C-1#29"
6. CIRCUIT ALL LIGHTING IN REFUSE ROOM TO "LP-C-1#31"
7. CIRCUIT ALL LIGHTING IN ELEVATOR LOBBY AND PUBLIC CORRIDOR TO THE FOLLOWING:
   *3RD FLOOR TO "LP-C-1#4"
   *4TH FLOOR TO "LP-C-1#6"
   *5TH FLOOR TO "LP-7-1#1"
   *6TH FLOOR TO "LP-7-1#3"
   *7TH FLOOR TO "LP-7-1#5"
   *8TH FLOOR TO "LP-7-1#7"
8. CIRCUIT ALL EXIT SIGNS ON THIS LEVEL TO THE FOLLOWING:
   *3RD TO 4TH FLOORS TO "LP-C-1#25"
   *5TH TO 8TH FLOORS TO "LP-C-7#17"

1 3RD FLOOR - RCP

1/8" = 1'-0"

NOTES



KEY PLAN

Number:	Date:	Revision:
	05/29/2019	BULLETIN #5

Client
HEATHERWOOD LUXURY RENTALS
58 Motor Parkway, Suite 100
Commack, NY 11725
T 631 775 2247 F 631 396 2185

ARCHITECT
HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007
F. 212 686 1754

INTERIOR DESIGNER
IN·SITE INTERIOR DESIGN
1250 BROADWAY, 36TH FLOOR
New York, NY 10001
Tel: 646 448 6662

STRUCTURAL ENGINEER
SEVERUD ASSOCIATES
469 Seventh Avenue
New York, NY 10018
Tel: 212 986 3700 Fax: 212 687 6467

MEP/FP ENGINEER
WSP | PARSONS BRINCKERHOFF
512 Seventh Avenue
New York, NY 10018
Tel: 212 532 9600 Fax: 212 689 7489

EXTERIOR WALL CONSULTANT
CANY
134 West 29TH ST
New York, NY 10001
Tel: 212 414 9623 Fax: xxx xxx xxxx

VERTICAL TRANSPORTATION CONSULTANT
OTIS ELEVATOR
65 FAIRCHILD AVENUE
Plainview, NY 11803
Tel: 516 576 5974 Fax: xxx xxx xxxx

PROJECT
12 ECKFORD ST.
AKA
470 MANHATTAN AVENUE
BROOKLYN, NY

DOB BSCAN:

DOB STAMPS & SIGNATURES:

DWG TITLE
3RD FLOOR ALT. - RCP

NEW BUILDING # : 320909772

SEAL & SIGNATURE: REGISTERED ARCHITECT LEO STEPHEN HILL No. 028264 STATE OF NEW YORK

DATE: NOVEMBER 17, 2015
PROJECT #: 14A21
SCALE: AS NOTED 5
A-703.01
DWG NO.

CAD FILE: J:\14A21_MANHATTAN AVE

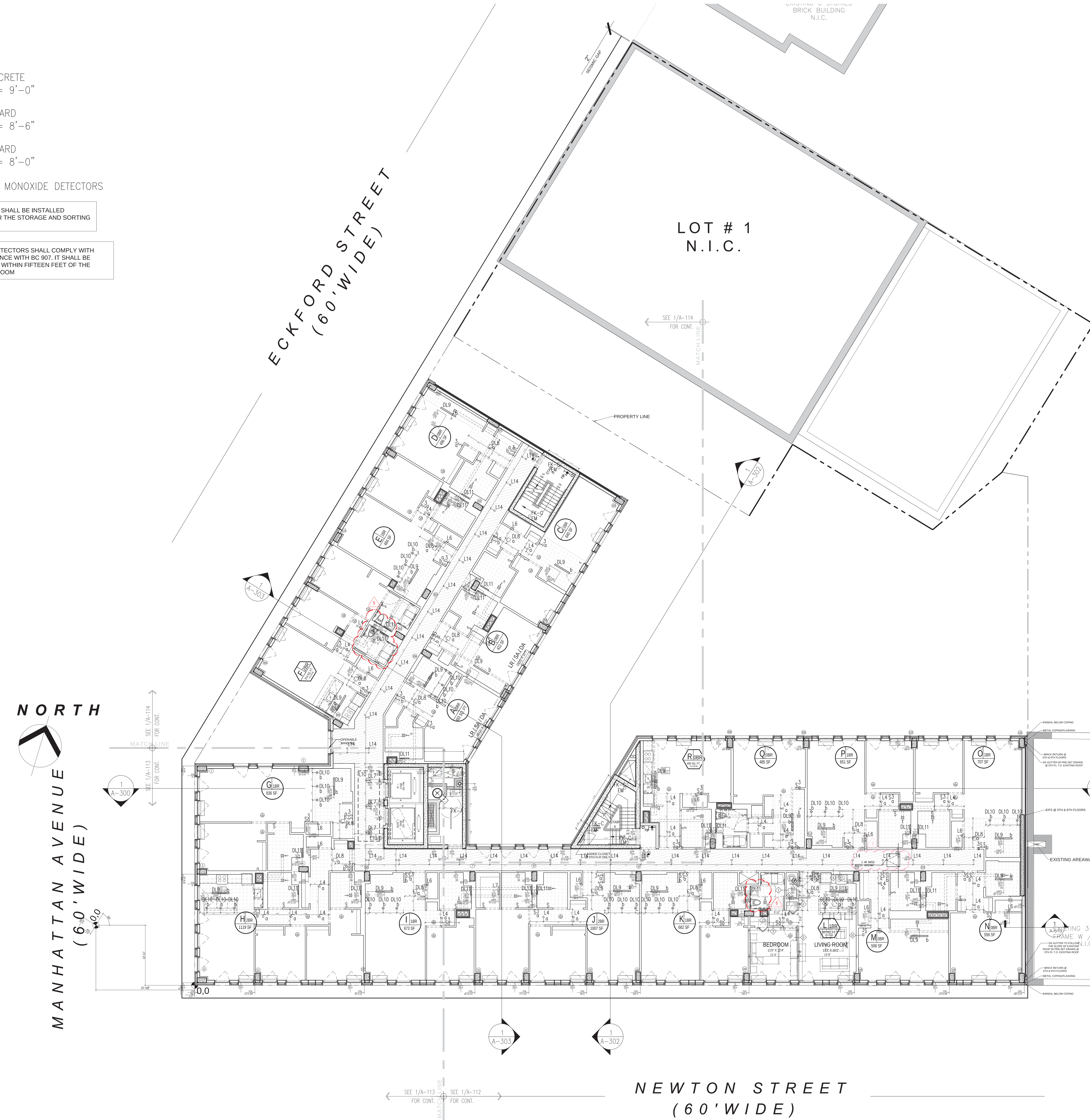
SHEET 128 OF 145

LEGEND

(symbol)	KADEX PTD. CONCRETE CEILING HEIGHT = 9'-0"
(symbol)	PTD. GYPSUM BOARD CEILING HEIGHT = 8'-6"
(symbol)	PTD. GYPSUM BOARD CEILING HEIGHT = 8'-0"
S / CM	SMOKE/ CARBON MONOXIDE DETECTORS

* AN AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT ALL AREAS USED FOR THE STORAGE AND SORTING OF REFUSE AND RECYCLABLES.

* HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH BC 907 AND INSTALLED IN ACCORDANCE WITH BC 907. IT SHALL BE PROVIDED IN EVERY BEDROOM AND WITHIN FIFTEEN FEET OF THE PRIMARY ENTRANCE OF EACH BEDROOM

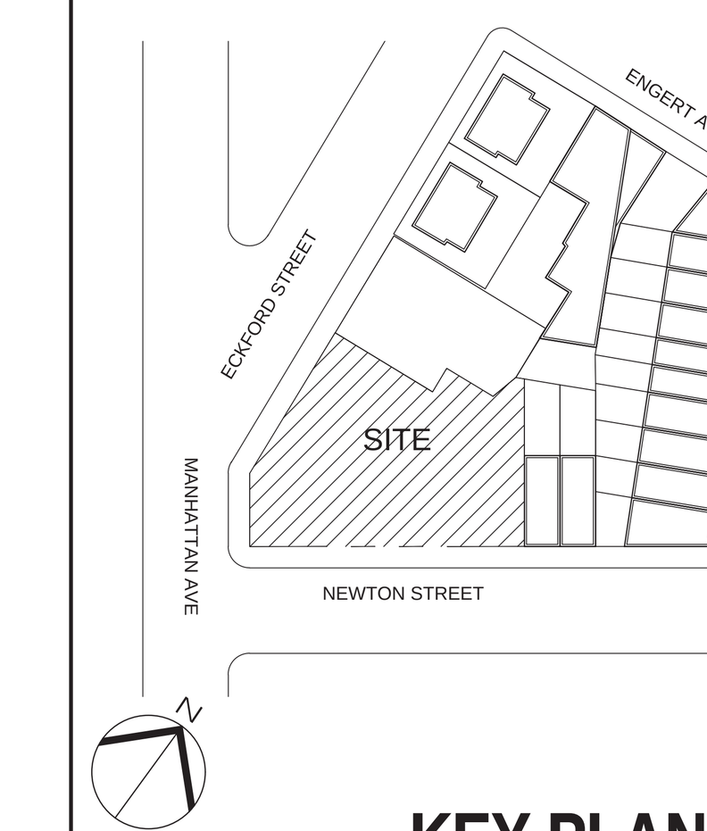


1 4TH-6TH FLOOR - RCP
1/8" = 1'-0"

NOTES:

1. LIGHTING FIXTURES IN PUBLIC CORRIDOR AND ELEVATOR LOBBY TO BE CONTROLLED BY OCCUPANCY SENSORS.
2. LIGHTING FIXTURES IN PUBLIC STAIRS SHALL BE EQUIPPED WITH INTEGRAL OCCUPANCY SENSORS TO DIM FIXTURES TO 50% WHEN NO MOVEMENT IS DETECTED.
3. EXIT SIGNS ARE SHOWN FOR REFERENCE ONLY, CONTRACTOR TO OCCUPANCY SENSORS TO SHUTOFF WHEN NO MOVEMENT IS DETECTED.
4. CIRCUIT ALL LIGHTING IN THIS STAIR TO "LP-C-1#27"
5. CIRCUIT ALL LIGHTING IN THIS STAIR TO "LP-C-1#29"
6. CIRCUIT ALL LIGHTING IN REFUSE ROOM TO "LP-C-1#31"
7. CIRCUIT ALL LIGHTING IN ELEVATOR LOBBY AND PUBLIC CORRIDOR TO THE FOLLOWING:
   *3RD FLOOR TO "LP-C-1#4"
   *4TH FLOOR TO "LP-C-1#6"
   *5TH FLOOR TO "LP-7-1#1"
   *6TH FLOOR TO "LP-7-1#3"
   *7TH FLOOR TO "LP-7-1#5"
   *8TH FLOOR TO "LP-7-1#7"
8. CIRCUIT ALL EXIT SIGNS ON THIS LEVEL TO THE FOLLOWING:
   *3RD TO 4TH FLOORS TO "LP-C-1#25"
   *5TH TO 8TH FLOORS TO "LP-C-7#17"

NOTES



KEY PLAN

Number:	Date:	Revision:
	05/29/2019	BULLETIN #5
	01/15/2019	BULLETIN #2
	11/02/2018	ISSUED TO DOB
	10/19/2018	BULLETIN #1
	09/24/2018	ISSUED TO DOB
	08/30/2018	ISSUED TO DOB
	06/22/2018	ISSUED FOR 100% CD
	05/15/2018	ISSUED TO DOB
	04/20/2018	ISSUED TO DOB
	10/20/2017	ISSUED TO DOB
	04/07/2017	ISSUED FOR DOB FILING
	03/03/2017	ISSUED FOR DOB FILING
	02/17/2017	ISSUED FOR 75% CD
	02/03/2017	ISSUED FOR DOB FILING
	12/02/2016	PROGRESS SET
	09/30/2016	ISSUED FOR DOB FILING
	09/01/2016	DESIGN DEVELOPMENT SUBMISSION SET
	06/10/2016	SCHEMATIC DESIGN SUBMISSION SET

Client
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58 Motor Parkway, Suite 100
Commack, NY 11725
T 631 775 2247 F 631 396 2185

ARCHITECT
HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007
F. 212 686 1754

INTERIOR DESIGNER
IN·SITE INTERIOR DESIGN
1250 BROADWAY, 36TH FLOOR
New York, NY 10001
Tel: 646 448 6662

STRUCTURAL ENGINEER
SEVERUD ASSOCIATES
469 Seventh Avenue
New York, NY 10018
Tel: 212 986 3700 Fax: 212 687 6467

MEP/FP ENGINEER
WSP | PARSONS BRINCKERHOFF
512 Seventh Avenue
New York, NY 10018
Tel: 212 532 9600 Fax: 212 689 7489

EXTERIOR WALL CONSULTANT
CANY
134 West 29TH ST
New York, NY 10001
Tel: 212 414 9623 Fax: xxx xxx xxxx

VERTICAL TRANSPORTATION CONSULTANT
OTIS ELEVATOR
65 FAIRCHILD AVENUE
Plainview, NY 11803
Tel: 516 576 5974 Fax: xxx xxx xxxx

PROJECT
12 ECKFORD ST.
AKA
470 MANHATTAN AVENUE
BROOKLYN, NY

DOB BSCAN:

DOB STAMPS & SIGNATURES:

DWG TITLE
4TH-6TH FLOOR - RCP

NEW BUILDING # : 320909772

SEAL & SIGNATURE:
REGISTERED ARCHITECT LEO STEPHEN HILL No. 028264 STATE OF NEW YORK

DATE: NOVEMBER 17, 2015
PROJECT #: 14A21
SCALE: AS NOTED

A-703.00
DWG NO.

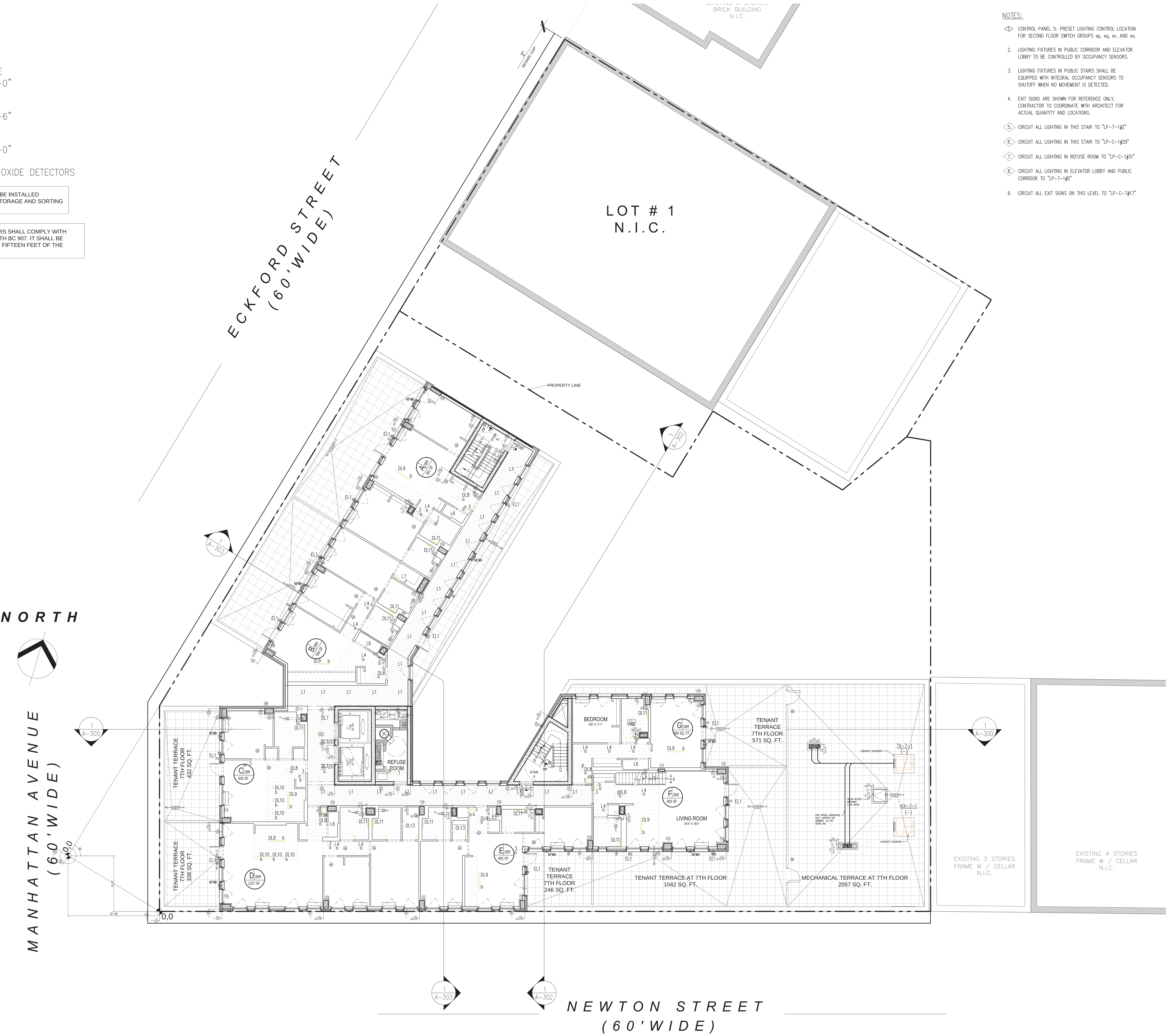
CAD FILE: J:\14A21_MANHATTAN AVE
SHEET 127 OF 145

LEGEND

- KADEX PTD. CONCRETE CEILING HEIGHT = 9'-0"
- PTD. GYPSUM BOARD CEILING HEIGHT = 8'-6"
- PTD. GYPSUM BOARD CEILING HEIGHT = 8'-0"
- S/CM — SMOKE/ CARBON MONOXIDE DETECTORS

* AN AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT ALL AREAS USED FOR THE STORAGE AND SORTING OF REFUSE AND RECYCLABLES.

* HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH BC 907 AND INSTALLED IN ACCORDANCE WITH BC 907. IT SHALL BE PROVIDED IN EVERY BEDROOM AND WITHIN FIFTEEN FEET OF THE PRIMARY ENTRANCE OF EACH BEDROOM



1 7TH FLOOR - RCP

1/8" = 1'-0"

NOTES:

1. CONTROL PANEL 5: PRESET LIGHTING CONTROL LOCATION FOR SECOND FLOOR SWITCH GROUPS ep, eq, er, AND es.
2. LIGHTING FIXTURES IN PUBLIC CORRIDOR AND ELEVATOR LOBBY TO BE CONTROLLED BY OCCUPANCY SENSORS.
3. LIGHTING FIXTURES IN PUBLIC STAIRS SHALL BE EQUIPPED WITH INTEGRAL OCCUPANCY SENSORS TO SHUTOFF WHEN NO MOVEMENT IS DETECTED.
4. EXIT SIGNS ARE SHOWN FOR REFERENCE ONLY, CONTRACTOR TO COORDINATE WITH ARCHITECT FOR ACTUAL QUANTITY AND LOCATIONS.
5. CIRCUIT ALL LIGHTING IN THIS STAIR TO "LP-7-1#2"
6. CIRCUIT ALL LIGHTING IN THIS STAIR TO "LP-C-1#29"
7. CIRCUIT ALL LIGHTING IN REFUSE ROOM TO "LP-C-1#31"
8. CIRCUIT ALL LIGHTING IN ELEVATOR LOBBY AND PUBLIC CORRIDOR TO "LP-7-1#5"
9. CIRCUIT ALL EXIT SIGNS ON THIS LEVEL TO "LP-C-7#17"

NOTES

KEY PLAN

Number:	Date:	Revision:
	11/02/2018	ISSUED TO DOB
	10/19/2018	BULLETIN #1
	09/24/2018	ISSUED TO DOB
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	06/10/2016	SCHEMATIC DESIGN SUBMISSION SET

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T 631 775 2247 F 631 396 2185

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11 BROADWAY
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T. 212 213 8007
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INTERIOR DESIGNER
IN-SITE Interior Design, Inc
845 Third Avenue, 6th Floor
New York, NY 10022
Tel: 646 290 5232 Fax: 646 290 5001

STRUCTURAL ENGINEER
SEVERUD ASSOCIATES
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EXTERIOR WALL CONSULTANT
CANY
134 West 29TH ST
New York, NY 10001
Tel: 212 414 9623 Fax: xxx xxx xxxx

VERTICAL TRANSPORTATION CONSULTANT
OTIS ELEVATOR
65 FAIRCHILD AVENUE
Plainview, NY 11803
Tel: 516 576 5974 Fax: xxx xxx xxxx

PROJECT
12 ECKFORD ST.
AKA
470 MANHATTAN AVENUE
BROOKLYN, NY

DOB BSCAN:

DOB STAMPS & SIGNATURES:

Victor Daza
APPROVED
Under Directive 2 of 1975
Date: 12/06/2018
NYC Development Hub

DWG TITLE
7TH FLOOR - RCP

NEW BUILDING # : 320909772

SEAL & SIGNATURE:
REGISTERED ARCHITECT LEO STEPHEN HILL No. 028264 STATE OF NEW YORK

DATE: NOVEMBER 17, 2015
PROJECT #: 14A21
SCALE: AS NOTED

A-704.00
DWG NO.

CAD FILE: J:\14A21_MANHATTAN AVE

SHEET 129 OF 137

LEGEND

KADEX PTD. CONCRETE
CEILING HEIGHT = 9'-0"

PTD. GYPSUM BOARD
CEILING HEIGHT = 8'-6"

PTD. GYPSUM BOARD
CEILING HEIGHT = 8'-0"

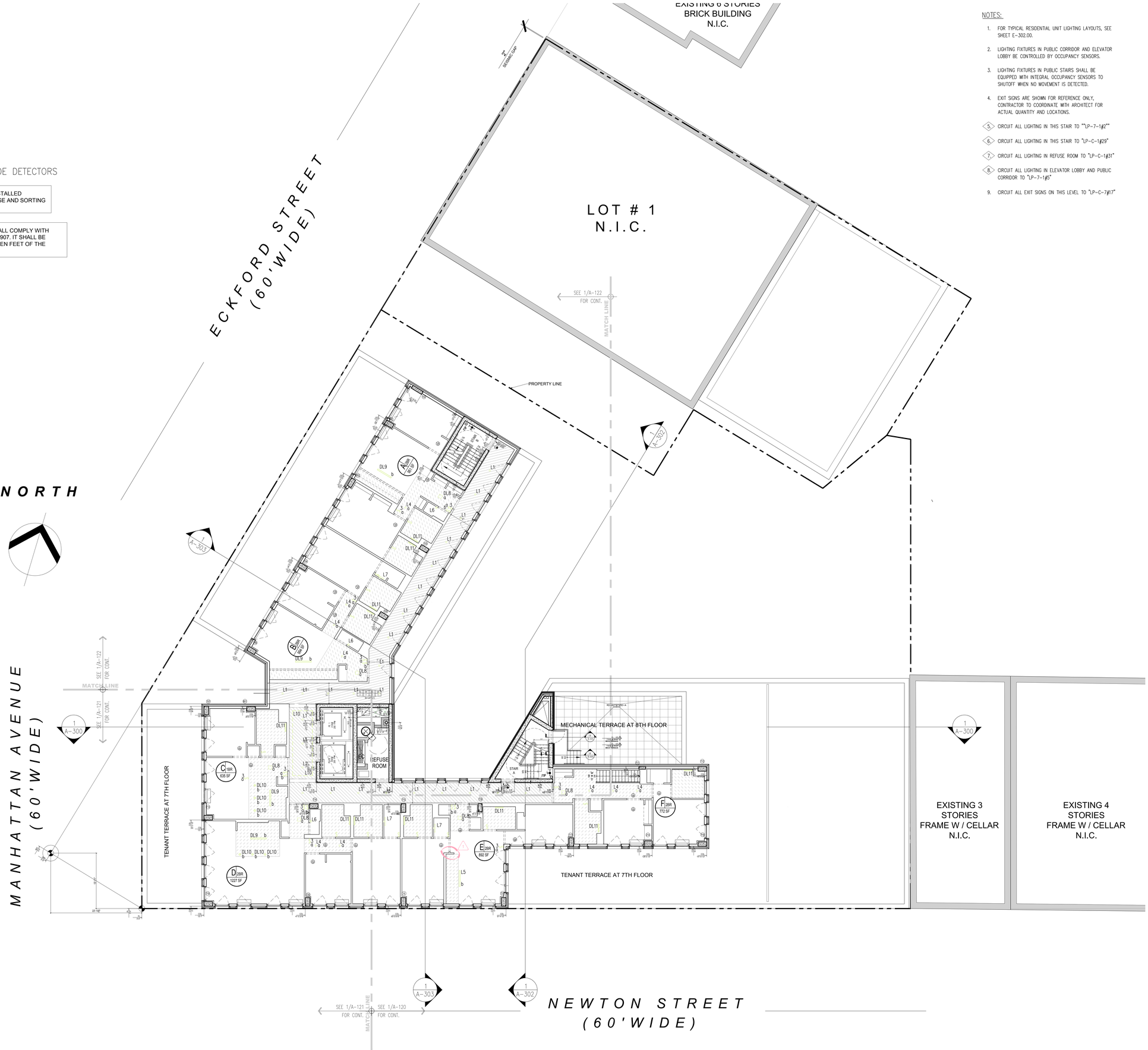
S
CM
SMOKE/ CARBON MONOXIDE DETECTORS

* AN AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT ALL AREAS USED FOR THE STORAGE AND SORTING OF REFUSE AND RECYCLABLES.

* HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH BC 907 AND INSTALLED IN ACCORDANCE WITH BC 907. IT SHALL BE PROVIDED IN EVERY BEDROOM AND WITHIN FIFTEEN FEET OF THE PRIMARY ENTRANCE OF EACH BEDROOM

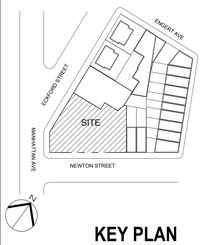
NOTES:

1. FOR TYPICAL RESIDENTIAL UNIT LIGHTING LAYOUTS, SEE SHEET E-302.00.
2. LIGHTING FIXTURES IN PUBLIC CORRIDOR AND ELEVATOR LOBBY BE CONTROLLED BY OCCUPANCY SENSORS.
3. LIGHTING FIXTURES IN PUBLIC STAIRS SHALL BE EQUIPPED WITH INTEGRAL OCCUPANCY SENSORS TO SHUTOFF WHEN NO MOVEMENT IS DETECTED.
4. EXIT SIGNS ARE SHOWN FOR REFERENCE ONLY, CONTRACTOR TO COORDINATE WITH ARCHITECT FOR ACTUAL QUANTITY AND LOCATIONS.
5. CIRCUIT ALL LIGHTING IN THIS STAIR TO ""LP-7-1#2""
6. CIRCUIT ALL LIGHTING IN THIS STAIR TO "LP-C-1#29"
7. CIRCUIT ALL LIGHTING IN REFUSE ROOM TO "LP-C-1#31"
8. CIRCUIT ALL LIGHTING IN ELEVATOR LOBBY AND PUBLIC CORRIDOR TO "LP-7-1#5"
9. CIRCUIT ALL EXIT SIGNS ON THIS LEVEL TO "LP-C-7#17"



1 8TH FLOOR - RCP
1/8" = 1'-0"

NOTES



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Number:	Date:	Revision:
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	09/24/2018	ISSUED TO DOB
	08/30/2018	ISSUED TO DOB
	06/22/2018	ISSUED FOR 100% CD
	05/15/2018	ISSUED TO DOB
	04/20/2018	ISSUED TO DOB
	10/20/2017	ISSUED TO DOB
	04/07/2017	ISSUED FOR DOB FILING
	03/03/2017	ISSUED FOR DOB FILING
	02/17/2017	ISSUED FOR 75% CD
	02/03/2017	ISSUED FOR DOB FILING
	12/02/2016	PROGRESS SET
	09/30/2016	ISSUED FOR DOB FILING
	09/01/2016	DESIGN DEVELOPMENT SUBMISSION SET
	06/10/2016	SCHEMATIC DESIGN SUBMISSION SET

Client

HEATHERWOOD LUXURY RENTALS
58 Motor Parkway, Suite 100
Commack, NY 11725
T 631 775 2247 F 631 396 2185

ARCHITECT

HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007
F. 212 686 1754

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STRUCTURAL ENGINEER
SEVERUD ASSOCIATES
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Tel: 212 532 9600 Fax: 212 689 7489

EXTERIOR WALL CONSULTANT
CANY
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New York, NY 10001
Tel: 212 414 9623 Fax: xxx xxx xxxx

VERTICAL TRANSPORTATION CONSULTANT
OTIS ELEVATOR
65 FAIRCHILD AVENUE
Plainview, NY 11803
Tel: 516 576 5974 Fax: xxx xxx xxxx

PROJECT
12 ECKFORD ST.
AKA
470 MANHATTAN AVENUE
BROOKLYN, NY

DOB BSCAN:

DOB STAMPS & SIGNATURES:

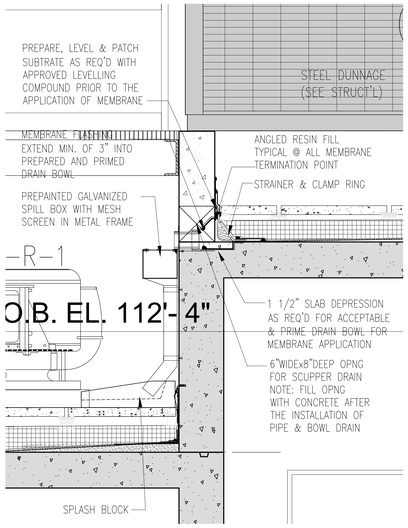
DWG TITLE
8TH FLOOR - RCP

NEW BUILDING # : 320909772

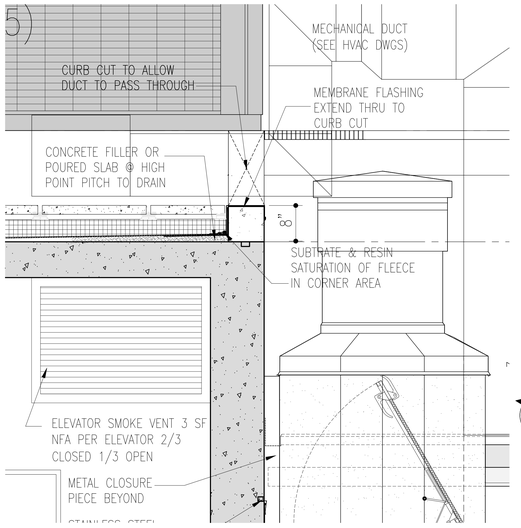
SEAL & SIGNATURE: REGISTERED ARCHITECT LEO STEPHEN HILL STATE OF NEW YORK

DATE: NOVEMBER 17, 2015
PROJECT #: 14421
SCALE: AS NOTED
DWG NO: A-705.00

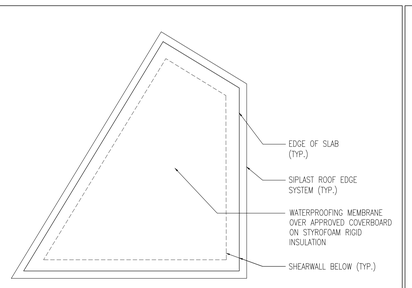
FILE: J:\14421_MANHATTAN AVE
SHEET 128 137



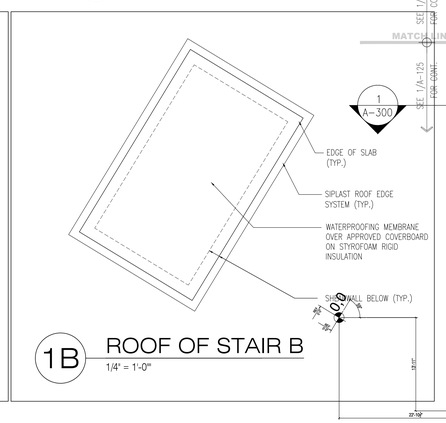
3 SCUPPER DRAIN FLASHING
1" = 1'-0"



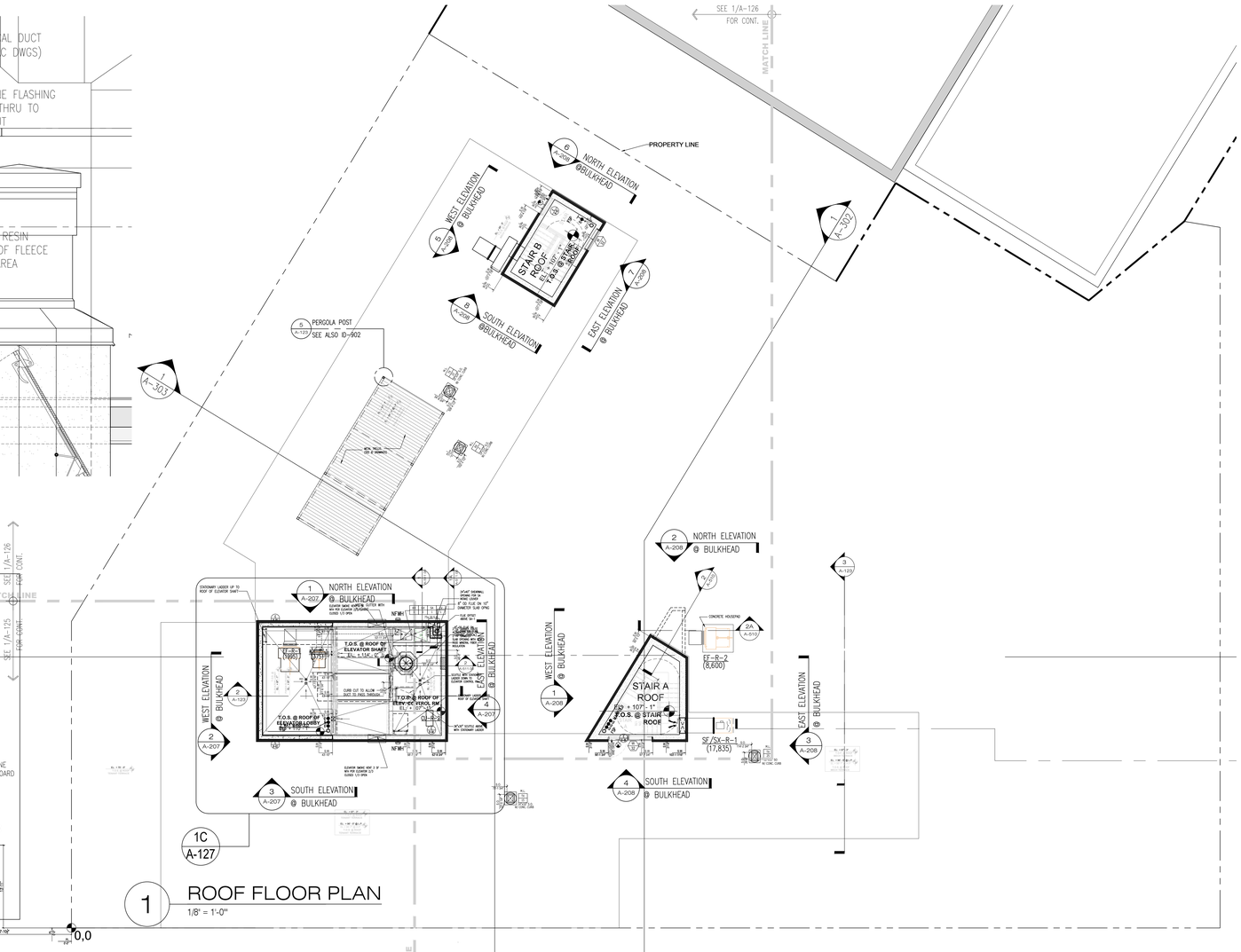
4 CURB CUT FLASHING
1" = 1'-0"



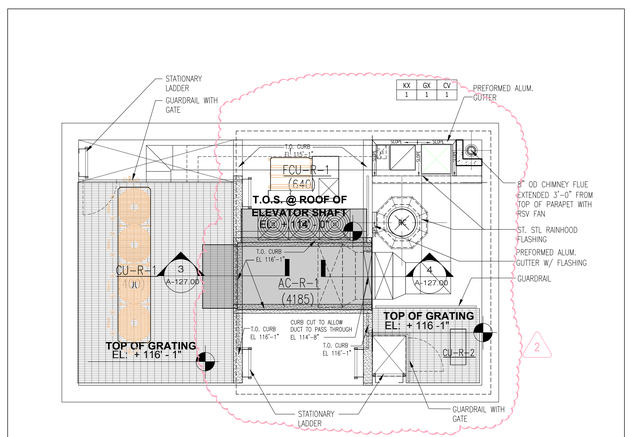
1A ROOF OF STAIR A
1/4" = 1'-0"



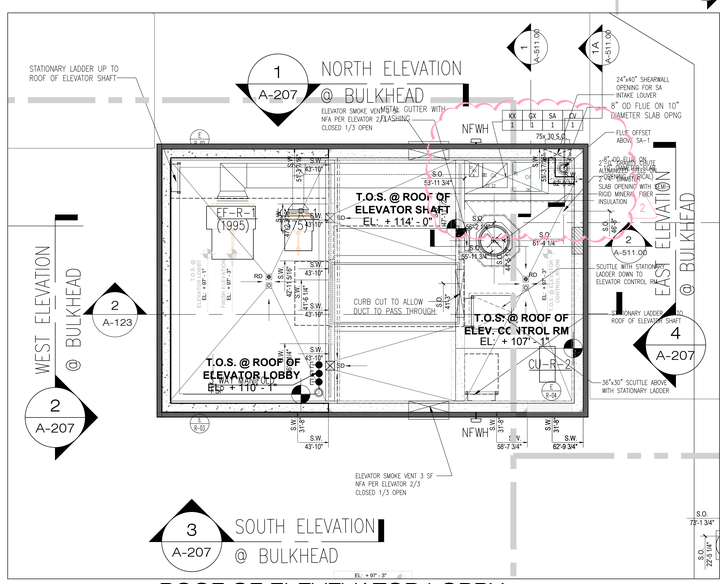
1B ROOF OF STAIR B
1/4" = 1'-0"



1 ROOF FLOOR PLAN
1/8" = 1'-0"

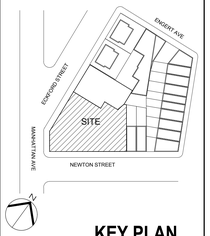


2 ROOF OF ELEV. SHAFT
1/4" = 1'-0"



1C ROOF OF ELEVEVATOR LOBBY ROOF OF ELEV. CONTROL RM.
1/4" = 1'-0"

NOTES



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PROJECT
12 ECKFORD ST.
AKA
470 MANHATTAN AVENUE
BROOKLYN, NY

DOB BSCAN:

DOB STAMPS & SIGNATURES:

DWG TITLE
ROOF BULKHEAD

NEW BUILDING # : 320909772

SEAL & SIGNATURE: REGISTERED ARCHITECT ED STEPHEN HILL STATE OF NEW YORK

DATE: NOVEMBER 17, 2016
PROJECT #: 14421
SCALE: AS NOTED
DWG NO: A-127.00

FILE: J:\14421_MANHATTAN-AVE
SHEET 64 OF 137

LEGEND

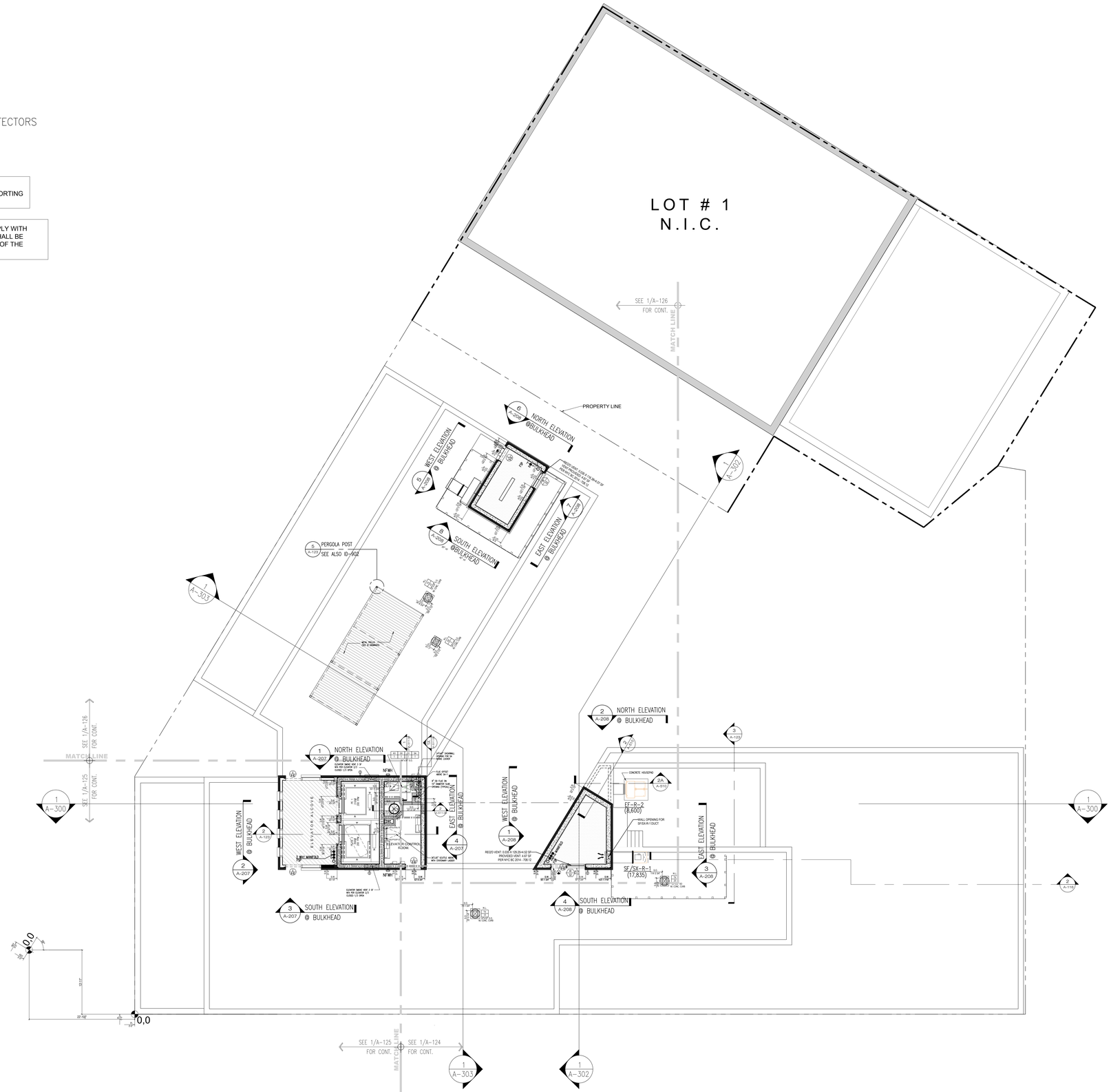
KADEX PTD. CONCRETE
CEILING HEIGHT = 9'-0"

PTD. GYPSUM BOARD
CEILING HEIGHT = 9'-0"

S
CM
SMOKE/ CARBON MONOXIDE DETECTORS

* AN AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT ALL AREAS USED FOR THE STORAGE AND SORTING OF REFUSE AND RECYCLABLES.

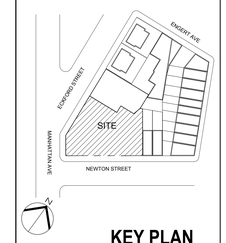
* HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH BC 907 AND INSTALLED IN ACCORDANCE WITH BC 907. IT SHALL BE PROVIDED IN EVERY BEDROOM AND WITHIN FIFTEEN FEET OF THE PRIMARY ENTRANCE OF EACH BEDROOM



1 ROOF - RCP

1/8" = 1'-0"

NOTES



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AKA
470 MANHATTAN AVENUE
BROOKLYN, NY

DOB BSCAN:

DOB STAMPS & SIGNATURES:

DWG TITLE
ROOF - RCP

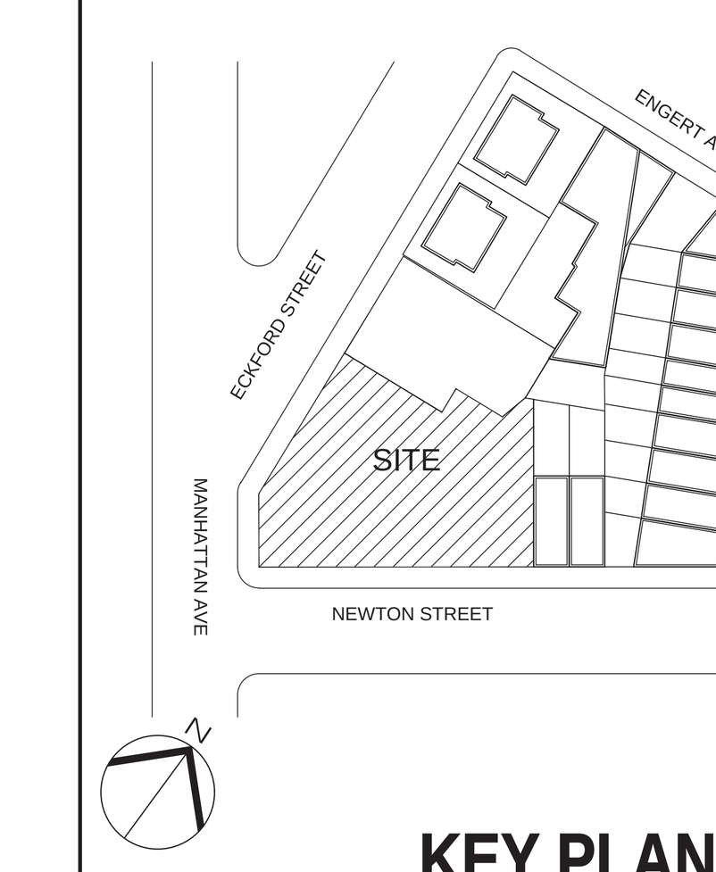
NEW BUILDING # : 320909772

SEAL & SIGNATURE: REGISTERED ARCHITECT STEPHEN HILL STATE OF NEW YORK

DATE: NOVEMBER 17, 2016
PROJECT #: 14421
SCALE: AS NOTED
DWG NO: A-706.00

FILE: J:\14421_MANHATTAN AVE.
SHEET 125 137

NOTES



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PROJECT

12 ECKFORD ST.
AKA
470 MANHATTAN AVENUE
BROOKLYN, NY

DOB BSCAN

DOB STAMPS & SIGNATURES

Victor Daza
APPROVED
Under Directive 2 of 1975
Date: 12/06/2018
NYC Development Hub

DWG TITLE

RENDERINGS

NEW BUILDING # : 320909772

SEAL & SIGNATURE:

REGISTERED ARCHITECT LEO STEPHEN HILL No. 028264 STATE OF NEW YORK

DATE: NOVEMBER 17, 2015
PROJECT #: 14A21
SCALE: AS NOTED

X-001.00
DWG NO.

CAD FILE: J:\14A21_MANHATTAN AVE

SHEET 2 OF 137

APPENDIX D

AGENCY APPROVALS AND PERMITS

OFFICE OF ENVIRONMENTAL REMEDIATION
100 Gold Street – 2nd Floor
New York, New York 10038

Daniel Walsh, Ph.D.
Director
Tel: (212) 788-8841

AMENDED NOTICE TO PROCEED
DOB Job Number NB 320909772

October 23, 2017

Re: 470 Manhattan Avenue: 6-14 Eckford Street, 466-470 Manhattan Avenue, and 105-117 Newton Street
Brooklyn Block 2714, Lots 30, 32, 33, and p/o 1 (Lots will be merged, project on p/o new Lot 1)
Hazardous Materials and Air Quality "E" Designation
E-138: Greenpoint-Williamsburg Rezoning - CEQR 04DCP003K - 5/11/2005
OER Project Number 16EH-A093K
NYSDEC BCP ID: New 470 Project, Site No. C-224242

Dear Brooklyn Borough Commissioner:

The New York City Office of Environmental Remediation (OER) hereby issues a Notice to Proceed for the above-referenced Department of Buildings Job Number. This correspondence is provided pursuant to OER's responsibilities as established in Chapter 24 of Title 15 of the Rules of the City of New York and Section 11-15 of the Zoning Resolution of the City of New York. The Applicant has filed a Hazardous Materials remedial action work plan with the New York State Department of Environmental Conservation and an Air Quality memorandum that are acceptable to this Office and has prepared a Construction Health and Safety Plan for implementation on this project. OER's Decision Document that defines the remedial actions required for this project has been prepared and filed and is available on request. A site map showing the location with respect to tax lots is attached to this Notice.

At the conclusion of remedial activities required under this action, the Zoning Resolution and §24-07 of the Rules of the City of New York requires that OER issue a Notice of Satisfaction signifying that all remedial action requirements established for this project have been satisfied prior to issuance of the Certificate of Occupancy or Temporary Certificate of Occupancy by Department of Buildings.

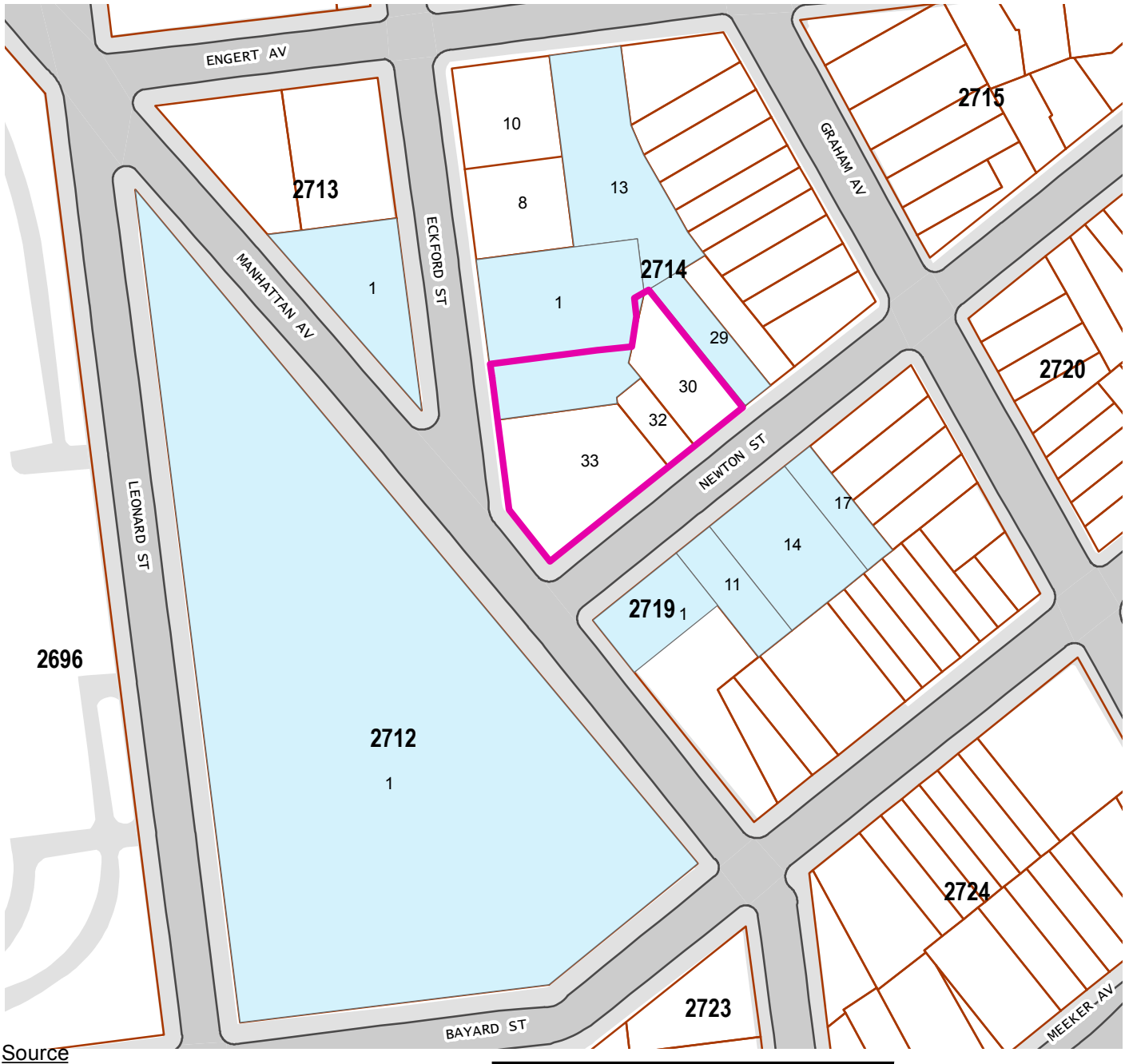
If you have any questions or comments, please feel free to contact Isabel McRae at 212-341-2034.

Sincerely,

Zach Schreiber, PhD
Assistant Director

cc: Ron Walker, Heatherwood - rwalker@heatherwood.com
Amy Jordan, AKRF - ajordan@akrf.com
John Petrocelli, Petrocelli - jpetrocelli3@petrocelliinc.com
Daniel Walsh, Shaminder Chawla, Maurizio Bertini, Sarah Pong
Isabel McRae, PMA-OER

Att: Site plan showing project Lots and partial Lots before Lot merger



Source
NYCDCP (NYC Dept. of City Planning) GIS database

Adjacent Property Owners		
Block	Lot	Owner Name
2714	1	470 Manhattan Ave LLC
2714	13	98 Engert, LLC
2714	29	Pogorzelski, Irene
2719	17	Suchocki, Ryszard A.
2719	14	126 Newton Street LLC
2719	11	124 Newton St LLC
2719	1	120 Newton Street LLC
2713	1	Wetzel, Gerald
2712	1	NYCSCA and NYCDOE

Legend

- Project Site Location
- Adjacent Property Owners
- Lot Boundary
- 2714 Block Number

0 50 100 200
SCALE IN FEET

12 Eckford Street (470 Manhattan Avenue)
Brooklyn, New York

TAX MAP

AKRF Engineering, P.C.
440 Park Avenue South, New York, NY 10016

DATE
11/9/2016
PROJECT NO.
12306
FIGURE
3

Search eSubmit | Logout | Help?

Logged in as: zschreiber@dep.nyc.gov

Electronically Submit Job Documents

*** Successfully Uploaded Document.**

Show additional information on use of this page.

Premises: 117 NEWTON STREET BROOKLYN **Job No: 320909772**
BIN: 3067807 Block: 2714 Lot: 33 **Job Type: NB - NEW BUILDING**

Required Items *(show help)*

Items Required By: ◉ All Items ○ Open Items **Prior To:** ☑ Approval ☑ Permit ☑ Signoff Display

60 TOTAL ITEMS REQUIRED FOR JOB	WHO RECV*	PRI TO	REQUIRED DATE	RECEIVED DATE	DATE CERTIFIED	WAIVED	AUTO POPULATED	UPLOAD DOC
* SEWER CONNECTION: DEP SD1 & SD2	T	APP	10/16/2015	12/18/2015			Yes	☐
TAX LOT: TENTATIVE LOT NUMBER ISSUED	T	APP	10/16/2015	12/18/2015			Yes	☐
BPP: FILING REQUIRED	T	APP	10/16/2015	12/18/2015			Yes	
TRASH COMPACTOR REQUIREMENTS	T	APP	10/16/2015	12/18/2015			Yes	
ANTI-HARASSMENT AREA CHECKLIST	T	APP	10/16/2015	_____			Yes	
STREET TREE CHECKLIST	N	APP	10/16/2015	12/18/2015			Yes	
SOIL REPORT	T	APP	10/16/2015	12/18/2015			Yes	☐
DOB - ZONING DIAGRAM (ZD1)	T	APP	10/16/2015	_____			Yes	
VERIFY DOB PLAN NAMING STANDARD IS MET	N	APP	10/16/2015	12/18/2015			Yes	
1ST ZONING REVIEW COMPLETE	T	APP	10/16/2015	11/11/2015			Yes	
2ND ZONING REVIEW COMPLETE	T	APP	10/16/2015	11/11/2015			Yes	
TR8: ENERGY CODE PROGRESS INSPS TECHNICAL REPORT	N	APP	10/16/2015	_____			Yes	
NYCECC ANALYSIS	N	APP	10/16/2015	_____			Yes	
ENERGY CODE 1ST REVIEW COMPLETE	T	APP	10/16/2015	_____			Yes	
ENERGY CODE COMPLIANCE FEE	T	APP	10/16/2015	_____			Yes	
ENERGY CODE ANALYSIS INCOMPLETE	T	APP	11/19/2015	11/19/2015			No	
ENVIRONMENTAL RESTRICTIONS - OER NOTICE TO PROCEED	T	APP	12/18/2015	12/18/2015			No	☐
SITE SURVEY: INITIAL	N	APP	12/18/2015	12/18/2015			No	☐
ZONING EXHIBIT I: CERTIFICATION	T	APP	12/18/2015	11/10/2016			No	☐
ZONING EXHIBIT III:DESC. & OWNRSHP.STMNT	T	APP	12/18/2015	11/10/2016			No	☐
FOUNDATION PLAN APPROVAL	N	APP	12/18/2015	_____			No	
SUBSURFACE / SOILS INVESTIGATION (BORINGS/TEST PITS)	N	APP	12/18/2015	12/18/2015	12/18/2015		No	
ZONING EXHIBIT II: CERTIFICATION	T	APP	04/10/2017	04/10/2017			No	☐
ZONING EXHIBIT IV: CERTIFICATION	T	APP	04/10/2017	04/10/2017			No	☐
STREET TREES: RECEIPT OF STREET TREES	N	PER	10/16/2015	12/18/2015			Yes	

SITE PLAN							
* DEMOLITION (DM) JOB SIGNOFF	N	PER	10/16/2015	_____		Yes	☐
MICROFILM/SCAN: INITIAL	N	PER	10/16/2015	_____		Yes	☐
INSURANCE: WORKERS' COMPENSATION	N	PER	10/16/2015	_____		Yes	☐
INSURANCE: LIABILITY	N	PER	10/16/2015	_____		Yes	☐
INSURANCE: DISABILITY	N	PER	10/16/2015	_____		Yes	☐
TR3: CONCRETE DESIGN MIX TECHNICAL REPORT	N	PER	10/16/2015	_____		Yes	☐
PROJECT-SPECIFIC GL INSURANCE	N	PER	10/16/2015	_____		Yes	☐
TR2: CONCRETE FIELD TESTING TECHNICAL REPORT	N	PER	10/16/2015	_____	_____	Yes	☐
OER NOTICE TO PROCEED	T	PER	12/10/2015	12/18/2015		No	☐
OER NOTICE OF SATISFACTION.	T	PER	12/10/2015	_____		No	☐
CONCRETE - CAST-IN-PLACE	N	PER	12/18/2015	_____	_____	No	☐
MASONRY	N	PER	12/18/2015	_____	_____	No	☐
DEEP FOUNDATIONS / PILES	N	PER	12/18/2015	_____	_____	No	☐
VERTICAL MASONRY FOUNDATION ELEMENTS/PIERS	N	PER	12/18/2015	_____	_____	No	☐
EXCAVATION - SHEETING, SHORING, AND BRACING	T	PER	12/18/2015	_____	_____	No	☐
SEISMIC ISOLATION SYSTEMS	N	PER	12/18/2015	_____	_____	No	☐
PROTECTION OF EXPOSED FOUNDATION INSULATION	N	PER	12/18/2015	_____	_____	No	☐
INSULATION PLACEMENT & R VALUES	N	PER	12/18/2015	_____	_____	No	☐
2ND ZONING REVIEW AFTER REDESIGN	T	PER	12/23/2016	01/10/2017		No	☐
CERTIFICATE OF OCCUPANCY	N	SGN	10/16/2015	_____		Yes	☐
SITE SURVEY: FINAL	N	SGN	10/16/2015	_____		Yes	☐
BPP: FINAL SIGNOFF	N	SGN	10/16/2015	_____		Yes	☐
DEMOLITION (DM) JOB SIGNOFF	N	SGN	10/16/2015	_____		Yes	☐
STREET TREE SIGNOFF	N	SGN	10/16/2015	_____		Yes	☐
AS-BUILT ENERGY ANALYSIS (EN2)	N	SGN	10/16/2015	_____		Yes	☐
PRELIMINARY COMMISSIONING REPORT CERTIFICATION	T	SGN	10/16/2015	_____		Yes	☐
FINAL PLUMBING SIGNOFF	N	SGN	10/16/2015	_____		Yes	☐
FINAL ELEVATOR SIGNOFF	N	SGN	10/16/2015	_____		Yes	☐
FINAL ELECTRICAL SIGNOFF	N	SGN	10/16/2015	_____		Yes	☐
FINAL CONSTRUCTION SIGNOFF	N	SGN	10/16/2015	_____		Yes	☐
VERIFY TAX LOT	N	SGN	10/16/2015	_____		Yes	☐
CO OBJ: VERIFY ADDRESS-TOPO STAMP	N	SGN	10/16/2015	_____		Yes	☐
VIOLATIONS SEARCH	N	SGN	10/16/2015	_____		Yes	☐
OPEN APPLICATIONS SEARCH	N	SGN	10/16/2015	_____		Yes	☐
FOLDER REVIEW	N	SGN	10/16/2015	_____		Yes	☐

Additional Job Documents

ADDRESS: NEW HOUSE NUMBER APPROVED

Filing Documents *(show help)*

SELECT UPLOAD TYPE

Pending and Rejected Files for Review *(show help)*

No	Date Submitted	Document Name	Status	Rejection Reason	Remove
1	10/26/2017	Doc - ENVIRONMENTAL RESTRICTIONS - OER NOTICE TO PROCEED	PENDING		Remove

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Bureau of Technical Support
625 Broadway, 11th Floor, Albany, NY 12233-7020
P: (518) 402-9543 I F: (518) 402-9547
www.dec.ny.gov

August 22, 2016

New 470 LLC
Attn: Mr. Ron Walker
58 Vanderbilt Motor Parkway, Suite 100
Commack, NY 11725

RE: Brownfield Cleanup Application
New 470 Project
Site No. C224242

Dear Mr. Walker:

The New York State Department of Environmental Conservation (DEC) has received your application for participation in the Brownfield Cleanup Program (BCP) pursuant to Environmental Conservation Law (ECL) § 27-1401 et seq. We are pleased to advise you that your application has been determined to be complete based upon DEC's initial non-substantive review of your application package. While the application is complete, DEC may require additional information regarding site contamination in order to demonstrate that the site requires remediation pursuant to ECL § 27-1407(1). Additionally, if your application also seeks a determination that the site is eligible for tangible property credits under ECL § 27-1407(1-a), DEC may require additional information in order to make such a determination. If you propose additional material to supplement this application, DEC may consider it at its sole discretion. If additional material or information supplied significantly changes the scope of the site subject to the application, the Department may require you to publish another public notice of availability of the complete application. DEC would then adjust the time frame specified under ECL § 27-1407(6) for notifying you that your request for participation in the BCP is either accepted or rejected.

Pursuant to ECL § 27-1407(5), a 45-day public comment period is to begin after DEC's determination that an application is complete. DEC will publish a notice of the receipt of your application seeking public comment in the "Environmental Notice Bulletin." In accordance with the ECL and DEC regulations (see 6 NYCRR § 375-3.4(b)), you must notify, in writing, the Director of the Mayor's Office of Environmental Coordination and all parties on the site contact list[1] of the availability of the complete application for public review and comment.

In order to facilitate the notifications, DEC has prepared the enclosed document for your use as a Public Notice along with instructions. You are responsible for placing a copy of the application (including any attachments) and copies of all other related documents such as any site assessments, investigation reports, and/or remedial work plans in the document repository

[1] The site contact list includes (see section 375-1.2(as)) all interested "persons, government agencies, groups or organizations, including, but not limited to, the chief executive officer and zoning board of each county, city, town and village in which such site is located, the public water supplier which serves the area in which such site is located, any site residents, adjacent property owners, any person who has requested to be placed on the site contact list, and the administrator of any school or day care facility located on the site for the purposes of posting and/or dissemination at the facility. Provided, however, that where the site or adjacent real property contains multiple dwelling units, the remedial party may propose an alternative method, consistent with the citizen participation goals set forth in section 375-1.10, for providing such notice in lieu of mailing to each individual."

before the start of the public comment period. The language in the enclosed Public Notice must be used without alteration in the newspaper notice that you have published in accordance with sections 375-3.2(f) and 375-3.10.

The enclosed public notice must be provided to a local newspaper servicing the area including the site for publication no later than August 31, 2016. By August 30, 2016, the other notifications specified above must be distributed and documents placed in the repository. To the extent that the mailings and publications are not completed in accordance with these time frames, DEC will extend the comment period for a period sufficient to comply with the required public notice requirements running from the latest of these mailings and publications.

Within five days of the mailings, you must submit a "certificate of mailing" using the enclosed form. Additionally, you must submit a proof of publication provided by the newspaper within three days of your receipt of such document. Please submit these documents to DEC's Project Manager:

Larry Alden
NYS Dept. of Environmental Conservation
Division of Environmental Remediation – Bureau B
625 Broadway, 12th Floor
Albany, NY 12233-7016
larry.alden@dec.ny.gov

DEC will use all best efforts to notify you if the application is accepted or rejected within five days after the close of the public comment period. We look forward to working cooperatively to address the environmental conditions at the brownfield site and return this property to productive use.

Sincerely,

Kelly A. Lewandowski

Kelly A. Lewandowski, P.E.
Chief, Site Control Section

Enclosures
ec w/enc.: L. Alden, Project Manager
R. Cozzy, Director, Remedial Bureau B
M. Komoroske, Section Chief, Remedial Bureau B – Section A
J. O'Connell, RHWRE, Region 2
A. Guglielmi, NYSDEC – OGC, Remediation Bureau
R. Seebacher, Project Attorney
K. Mintzer, Regional Attorney, Region 2
K. Anders, NYSDOH
J. Deming, NYSDOH Regional Chief
B. Anderson, Site Control Section
K. Lewandowski
Ron Walker, Requestor's Representative (rwalker@heatherwood.com)
Marc Godick, Requestor's Consultant (mgodick@akrf.com)
Carolyn J. Purcell-Smith, PLLC, Requestor's Attorney (cjpsesq@gmail.com)

Brownfield Cleanup Program
Public Notice Instructions to Requestor[2]

1) **Newspaper Notice**
   a) The Requestor must publish the language in the enclosed public notice, without modification, in a local newspaper of general circulation that services the area that includes the site not later than the date specified in the Division of Environmental Remediation's (DER) cover letter. The notice must be a paid newspaper advertisement, prominently located in the community bulletin section or comparable local section of the newspaper (not as a legal notice). The Requestor must publish the notice in English and in any other language spoken by a significant number of people within the site community.
   b) The Requestor must submit a proof of publication of the newspaper notice to the DER Project Manager by the date specified in the DER cover letter.

2) **Requestor's Instructions to Newspapers Regarding Printing the Public Notice**
   a) The enclosed public notice announces the receipt of a complete Brownfield Cleanup Program application package by the New York State Department of Environmental Conservation. Pursuant to ECL Section 27-1405(22), the public notice must be a paid newspaper advertisement, prominently located in the community bulletin section or similar local section of the newspaper (not as a legal notice). The public notice must be published by the date specified. Please provide a proof of publication to the DER Project Manager as soon as possible.

3) **Site Contact List**
   a) The Requestor must mail the enclosed public notice, without modification, to the parties on the site contact list included with the application. The mailing must be performed by the date specified in the DER cover letter. No other materials can be mailed with this notice with the exception of the instructions provided in #4a below.
   b) The Requestor must complete the certificate of mailing and submit it to the DER Project Manager by the date specified in the DER cover letter (see enclosed certificate of mailing form).

4) **Requestor's Instructions to Parties on the Site Contact List Receiving the Public Notice**
   a) The enclosed public notice announces the receipt of a complete Brownfield Cleanup Program application package by the New York State Department of Environmental Conservation. Pursuant to ECL Section 27-1407(5), a public notice announcing the receipt of an application must be sent to parties on the site contact list. Please read the enclosed public notice and review the application package in the site document repository for further information regarding the application and how to submit comments.

5) **Document Repository**
   a) The Requestor must put the application package (application and all attachments) in the site document repository specified in the application prior to the start of the public comment period.

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[2] A requestor (§ 375-3.2(i)) is a person who has submitted an application to participate in the BCP whose eligibility has not yet been determined by DEC.

Public Notice
Fact Sheet

The New York State Department of Environmental Conservation (DEC) has received a Brownfield Cleanup Program (BCP) application, Draft Remedial Action Work Plan and Final Remedial Investigation Report from New 470 LLC for a site known as the New 470 Project, site ID #C224242. This site is located in the Borough of Brooklyn, within the County of Kings, and is located at 12 Eckford Street. Comments regarding this application must be submitted no later than October 15, 2016. A copy of the application, Draft Remedial Action Work Plan, Final Remedial Investigation Report and other relevant documents are available at the document repositories located at New York Public Library – Greenpoint, 107 Norman Ave, Brooklyn and Brooklyn Community Board District 1, 435 Graham Ave, Brooklyn. Information regarding the site and how to submit comments can be found at http://www.dec.ny.gov/chemical/60058.html or send comments to Larry Alden, Project Manager, NYSDEC – DER, 625 Broadway, 12th Floor, Albany, NY 12233-7016 ; larry.alden@dec.ny.gov; or call 518-402-9767.

To have information such as this notice sent right to your email, sign up with county email listservs available at www.dec.ny.gov/chemical/61092.html.

CERTIFICATION OF MAILING

Site Name: New 470 Project
Site No.: C224242

I certify that I mailed on _____ a copy of the attached public notice by first class mail upon the person(s) on the attached mailing list, by depositing a true copy thereof, securely enclosed in a postpaid wrapper, in the Post Office box at _____ in the City of _____, New York, which box is under the exclusive care and custody of the United States Post Office.

_____ _____

Signature Date

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau B
625 Broadway, 12th Floor, Albany, NY 12233-7016
P: (518) 402-9768 I F: (518) 402-9773
www.dec.ny.gov

December 1, 2016

New 470 LLC
Ron Walker
58 Vanderbilt Motor Parkway, Suite 100
Commack, NY 11725

Re: New 470 Project
Site ID No. C224242
Brooklyn, Kings County
Remedial Work Plan & Decision Document

Dear Mr. Walker:

The New York State Department of Environmental Conservation (Department) and the New York State Department of Health (NYSDOH) have reviewed the Remedial Work Plan (RWP) for the New 470 Project site dated November 17, 2016 and prepared by AKRF Engineering, P.C. on behalf of New 470 LLC. The RWP is hereby approved. Please ensure that a copy of the approved RWP is placed in the document repositories. The draft plan should be removed.

Attached is a copy of the Department's Decision Document for the site. The remedy is to be implemented in accordance with this Decision Document. Please ensure that a copy of the Decision Document is placed in the document repositories.

Please contact the Department's Project Manager, Larry Alden, at 518-402-9767 or larry.alden@dec.ny.gov at your earliest convenience to discuss next steps. Please recall the Department requires seven days' notice prior to the start of field work.

Sincerely,

Robert J. Cozzy, P.E.
Director
Remedial Bureau B
Division of Environmental Remediation

Enclosure

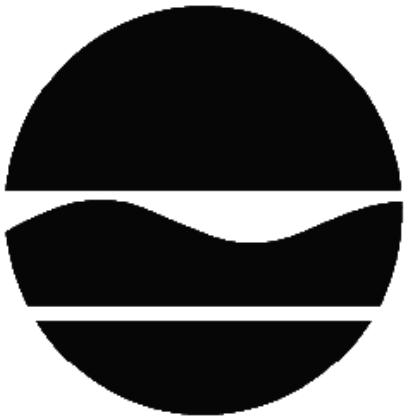
ec *w/attachments*:

R. Schick
M. Ryan
R. Cozzy
M. Komoroske
J. O’Connell
L. Alden
R. Seebacher
K. Anders - DOH
J. Deming - DOH
R. Ghosh - DOH
M. Godick - AKRF
C. Purcell-Smith, Esq.

ver 2015-09-01

DECISION DOCUMENT

New 470 Project
Brownfield Cleanup Program
Brooklyn, Kings County
Site No. C224242
November 2016



Prepared by
Division of Environmental Remediation
New York State Department of Environmental Conservation

DECLARATION STATEMENT - DECISION DOCUMENT

New 470 Project
Brownfield Cleanup Program
Brooklyn, Kings County
Site No. C224242
November 2016

Statement of Purpose and Basis

This document presents the remedy for the New 470 Project site, a brownfield cleanup site. The remedial program was chosen in accordance with the New York State Environmental Conservation Law and Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR) Part 375.

This decision is based on the Administrative Record of the New York State Department of Environmental Conservation (the Department) for the New 470 Project site and the public's input to the proposed remedy presented by the Department.

Description of Selected Remedy

The elements of the selected remedy are as follows:

1. Remedial Design
A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows:

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals; and
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development.

2. Excavation
Excavation and off-site disposal of contaminant source areas, including:

- grossly contaminated soil, as defined in 6 NYCRR Part 375-1.2(u);
- soil exceeding the USEPA and 6 NYCRR Part 371 hazardous criteria for lead; and
- removal of any underground storage tanks (USTs), fuel dispensers, underground piping or other structures associated with a source of contamination.

Approximately 1,600 cubic yards of contaminated soil (soil above restricted-residential SCOs in the upper 2 feet) will be removed from the site to allow installation of the cover system. Clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) will be brought in to complete the backfilling of the excavation and establish the designed grades at the site, where necessary. The site will be re-graded to accommodate installation of a cover system as described in remedy element 3. Additional excavation related to site development is not part of the remedy.

3. Cover System
A site cover will be required to allow for restricted-residential use of the site in areas where the upper two feet of exposed surface soil exceeds the applicable soil cleanup objectives (SCOs). The site cover may consist of paved parking areas, sidewalks, or a soil cover. Where a soil cover is to be used it will be a minimum of two feet of soil placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative layer. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d). In areas where building foundations or building slabs preclude contact with soil, the requirements for a site cover will be deferred until such time that they are removed.

4. Soil Vapor Extraction
Soil vapor extraction (SVE) will be implemented to remove volatile organic compounds (VOCs) from the subsurface. VOCs will be physically removed from the soil by applying a vacuum to wells that have been installed into the vadose zone (the area below the ground but above the water table). The vacuum draws air through the soil matrix which carries the VOCs from the soil to the SVE well. The air extracted from the SVE wells is then treated as necessary prior to being discharged to the atmosphere.

Four SVE wells will be installed into the vadose zone and screened from 3 feet below the ground surface to a depth of approximately 7 feet. The air containing VOCs extracted from the SVE wells will be treated by passing the air stream through activated carbon, which removes the VOCs from the air prior to it being discharged to the atmosphere. The operation of the components of the remedy will continue until the remedial objectives have been achieved, or until the Department determines that continued operation is technically impracticable or not feasible.

5. Vapor Mitigation
Any on-site buildings will be required to have a sub-slab depressurization system, or a similar engineered system, to mitigate the migration of vapors into the building from soil and/or groundwater.

6. Institutional Control
Imposition of an institutional control in the form of an environmental easement for the controlled

property which will:

- require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8(h)(3);
- allow the use and development of the controlled property for restricted-residential use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH; and
- require compliance with the Department-approved Site Management Plan.

7. Site Management Plan

A Site Management Plan is required, which includes the following:

1. an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:

Institutional Controls: The environmental easement discussed in Paragraph 6, above.

Engineering Controls: The cover system discussed in Paragraph 3, the SVE system discussed in Paragraph 4, and the sub-slab depressurization system discussed in Paragraph 5, above.

This plan includes, but may not be limited to:

- an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
- descriptions of the provisions of the environmental easement including any land use and groundwater use restrictions;
- a provision that should a building foundation or building slab be removed in the future, a cover system consistent with that described in Paragraph 3, above, will be placed in any areas where the upper two feet of exposed surface soil exceed the applicable soil cleanup objectives (SCOs);
- provisions for the management and inspection of the identified engineering controls;
- maintaining site access controls and Department notification; and
- the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

2. a Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:

- monitoring of soil vapor to assess the performance and effectiveness of the remedy;
- a schedule of monitoring and frequency of submittals to the Department;

3. an Operation and Maintenance (O&M) Plan to ensure continued operation, maintenance, inspection, and reporting of any mechanical or physical components of the active vapor mitigation system(s). The plan includes, but is not limited to:

- procedures for operating and maintaining the system(s); and
- compliance inspection of the system(s) to ensure proper O&M as well as providing the data for any necessary reporting.

Declaration

The remedy conforms with promulgated standards and criteria that are directly applicable, or that are relevant and appropriate and takes into consideration Department guidance, as appropriate. The remedy is protected of public health and the environment.

November 30, 2016

Date

Robert Cozzy, Director
Remedial Bureau B

DECISION DOCUMENT

New 470 Project
Brooklyn, Kings County
Site No. C224242
November 2016

SECTION 1: SUMMARY AND PURPOSE

The New York State Department of Environmental Conservation (the Department), in consultation with the New York State Department of Health (NYSDOH), has selected a remedy for the above referenced site. The disposal of contaminants at the site has resulted in threats to public health and the environment that would be addressed by the remedy. The disposal or release of contaminants at this site, as more fully described in this document, has contaminated various environmental media. Contaminants include hazardous waste and/or petroleum.

The New York State Brownfield Cleanup Program (BCP) is a voluntary program. The goal of the BCP is to enhance private-sector cleanups of brownfields and to reduce development pressure on "greenfields." A brownfield site is real property, the redevelopment or reuse of which may be complicated by the presence or potential presence of a contaminant.

The Department has issued this document in accordance with the requirements of New York State Environmental Conservation Law and 6 NYCRR Part 375. This document is a summary of the information that can be found in the site-related reports and documents.

SECTION 2: CITIZEN PARTICIPATION

The Department seeks input from the community on all remedies. A public comment period was held, during which the public was encouraged to submit comment on the proposed remedy. All comments on the remedy received during the comment period were considered by the Department in selecting a remedy for the site. Site-related reports and documents were made available for review by the public at the following document repositories:

Greenpoint Library
107 Norman Avenue
Brooklyn, NY 11222
Phone: 718-349-8504

Brooklyn Community Board 1
435 Graham Avenue
Brooklyn, NY 11211
Phone: 718-389-0009

Receive Site Citizen Participation Information By Email

Please note that the Department's Division of Environmental Remediation (DER) is "going paperless" relative to citizen participation information. The ultimate goal is to distribute citizen participation information about contaminated sites electronically by way of county email listservs. Information will be distributed for all sites that are being investigated and cleaned up in a particular county under the State Superfund Program, Environmental Restoration Program, Brownfield Cleanup Program, Voluntary Cleanup Program, and Resource Conservation and Recovery Act Program. We encourage the public to sign up for one or more county listservs at http://www.dec.ny.gov/chemical/61092.html

SECTION 3: SITE DESCRIPTION AND HISTORY

Location: The site is located at 12 Eckford Street in an urban area in the Greenpoint neighborhood of Brooklyn, New York. The approximately 21,630-square foot site is bounded by a former commercial building currently being used as a construction office for the site and residential buildings to the north; residential buildings to the east; Newton Street to the southeast; Eckford Street to the west; and Manhattan Avenue to the southwest.

Site Features: Currently, the site is vacant and unpaved. The buildings on-site have been demolished.

Current Zoning and Land Use: The site is zoned as M1-2/R6A (light manufacturing and residential uses) and is currently vacant. This zoning is consistent with the proposed use of the site. The surrounding area is developed primarily with residential and commercial properties.

Past Uses of the Site: The site formerly comprised Lots 30, 32, 33, and a portion of Lot 1. Former Lots 30, 32, and 33 have now been merged into Lot 33. According to historic Sanborn fire insurance maps, the site was undeveloped between 1887 and 1905. By 1916, Lot 1 was developed as an unspecified factory building, and former Lot 33 was developed with a barrel shed, a carriage garage, and a cooperage with an office. By 1942, Lot 1 was developed with a sash and door storage and a woodworking shop associated with the north-adjacent I. Feldman & Son Inc. sash and door manufacturer. Former Lot 30 was developed with a two-story building used for window sash storage. A gasoline tank was shown on the southwestern portion of former Lot 32. Former Lot 32 was labeled as “barrels, boxes, and automobile”. Former Lot 33 was developed with a cooperage and an office. By 1951, Lot 1 was developed with a metal container manufacturer and an enameling works with a baking oven and spray booths and former Lot 30 was labeled “to be: garage”. Former Lot 1 was developed with a new factory building in 1963 and with a spray booth and storage on the eastern portion by 1965. By 1965, former Lot 30 was developed as a garage and as a factory by 1978. By 1983, former Lot 32 was used for freight storage, and for motor freight storage between 1986 and 1991.

Site Geology and Hydrogeology: The stratigraphy of the site from the surface down consists of approximately 6-12 feet of historic fill, characterized by sand, gravel, and silt with concrete, asphalt, brick, and ash. Below the historic fill is a native sand, gravel, and silt stratum to a depth of at least 20 feet below grade. Bedrock was not encountered during the investigations.

Groundwater was encountered between approximately 10 and 12.5 feet below grade and flow is generally from east to west beneath the site.

A site location map is attached as Figure 1.

SECTION 4: LAND USE AND PHYSICAL SETTING

The Department may consider the current, intended, and reasonably anticipated future land use of the site and its surroundings when evaluating a remedy for soil remediation. For this site, alternatives (or an alternative) that restrict(s) the use of the site to restricted-residential use (which allows for commercial use and industrial use) as described in Part 375-1.8(g) were/was evaluated in addition to an alternative which would allow for unrestricted use of the site.

A comparison of the results of the Remedial Investigation (RI) to the appropriate standards, criteria and guidance values (SCGs) for the identified land use and the unrestricted use SCGs for the site contaminants is available in the RI Report.

SECTION 5: ENFORCEMENT STATUS

The Applicant under the Brownfield Cleanup Agreement is a Volunteer. The Volunteer does not have an obligation to address off-site contamination. The Department has determined that this site poses a significant threat to human health and the environment and there are off-site impacts that require remedial activities; accordingly, enforcement actions are necessary.

The Department will seek to identify any parties (other than the Volunteer) known or suspected to be responsible for contamination at or emanating from the site, referred to as Potentially Responsible Parties (PRPs). The Department will bring an enforcement action against the PRPs. If an enforcement action cannot be brought, or does not result in the initiation of a remedial program by any PRPs, the Department will evaluate the off-site contamination for action under the State Superfund. The PRPs are subject to legal actions by the State for recovery of all response costs the State incurs or has incurred.

SECTION 6: SITE CONTAMINATION

6.1: Summary of the Remedial Investigation

A remedial investigation (RI) serves as the mechanism for collecting data to:

- characterize site conditions;
- determine the nature of the contamination; and
- assess risk to human health and the environment.

The RI is intended to identify the nature (or type) of contamination which may be present at a site and the extent of that contamination in the environment on the site, or leaving the site. The RI reports on data gathered to determine if the soil, groundwater, soil vapor, indoor air, surface water or sediments may have been contaminated. Monitoring wells are installed to assess

groundwater and soil borings or test pits are installed to sample soil and/or waste(s) identified. If other natural resources are present, such as surface water bodies or wetlands, the water and sediment may be sampled as well. Based on the presence of contaminants in soil and groundwater, soil vapor will also be sampled for the presence of contamination. Data collected in the RI influence the development of remedial alternatives. The RI report is available for review in the site document repository and the results are summarized in section 6.3.

The analytical data collected on this site includes data for:

- groundwater
- soil
- soil vapor

6.1.1: Standards, Criteria, and Guidance (SCGs)

The remedy must conform to promulgated standards and criteria that are directly applicable or that are relevant and appropriate. The selection of a remedy must also take into consideration guidance, as appropriate. Standards, Criteria and Guidance are hereafter called SCGs.

To determine whether the contaminants identified in various media are present at levels of concern, the data from the RI were compared to media-specific SCGs. The Department has developed SCGs for groundwater, surface water, sediments, and soil. The NYSDOH has developed SCGs for drinking water and soil vapor intrusion. For a full listing of all SCGs see: http://www.dec.ny.gov/regulations/61794.html

6.1.2: RI Results

The data have identified contaminants of concern. A "contaminant of concern" is a contaminant that is sufficiently present in frequency and concentration in the environment to require evaluation for remedial action. Not all contaminants identified on the property are contaminants of concern. The nature and extent of contamination and environmental media requiring action are summarized below. Additionally, the RI Report contains a full discussion of the data. The contaminant(s) of concern identified at this site is/are:

1,1,1-trichloroethane
trichloroethene (TCE)
tetrachloroethene (PCE)
1,1-dichloroethane
MTBE (methyl-tert-butyl ether)
benzo(b)fluoranthene
arsenic
lead
mercury

The contaminant(s) of concern exceed the applicable SCGs for:

- groundwater
- soil
- soil vapor intrusion

6.2: Interim Remedial Measures

An interim remedial measure (IRM) is conducted at a site when a source of contamination or exposure pathway can be effectively addressed before issuance of the Decision Document.

There were no IRMs performed at this site during the RI.

6.3: Summary of Environmental Assessment

This section summarizes the assessment of existing and potential future environmental impacts presented by the site. Environmental impacts may include existing and potential future exposure pathways to fish and wildlife receptors, wetlands, groundwater resources, and surface water. The RI report presents a detailed discussion of any existing and potential impacts from the site to fish and wildlife receptors.

Nature and Extent of Contamination:

Soil and groundwater were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs), and pesticides.

Soil: Soil samples were compared to the restricted-residential soil cleanup objectives (SCOs). No VOCs, PCBs, or pesticides were found above SCOs. Several heavy metals such as arsenic (maximum of 39 parts per million [ppm], compared to the SCO of 16 ppm), lead (14,000 ppm vs. 400 ppm), and mercury (7.6 ppm vs. 0.81 ppm) were found in the shallow soil across the site.

Shallow soil was also contaminated above the SCOs with SVOCs in a class of contaminants called polycyclic aromatic hydrocarbons (PAHs) (for example, benzo(b)fluoranthene). The highest PAH concentration found during the investigations was benzo(b)fluoranthene at 21 ppm (1 ppm SCO). PAHs are typically associated with incomplete combustion of coal or oil. Soil with heavy metal and PAH contamination of this nature is consistent with historic fill. No source area for the VOCs was found in on-site soil, but based on the groundwater and soil vapor results, a source area may be present at the boundary with the off-site portion of Lot 1.

Groundwater: Groundwater samples were compared to Class GA Ambient Water Quality Standards. PAHs were the only SVOCs detected slightly above standards. Naturally-occurring metals were also detected above standards in several samples, and a pesticide was found in a single water sample from the off-site portion of Lot 1. There were no PCBs in any samples.

On-site groundwater samples contained methyl tert butyl ether (MTBE) at concentrations of up to 48 ppb, above the standard of 10 ppb. Although on-site groundwater samples did not contain chlorinated VOCs, samples from the off-site portions of Lot 1 had VOCs 1,1,1-trichloroethane (1,1,1-TCA) at a maximum concentration of 43 ppb, 1,1-dichloroethane at 740 ppb , and trichloroethene (TCE) at 7.6 ppb. All three of these VOCs have a standard of 5 ppb.

Soil Vapor: Soil vapor was analyzed for VOCs, and the primary contaminants of concern for the site include 1,1,1-TCA, tetrachloroethene (PCE), and TCE. The highest levels of these VOCs

were measured in the northeastern part of the site in the northern part of former Lot 30, with 1,1,1-TCA at 37,300 micrograms/cubic meter (ug/m3), PCE at 956 ug/m3, and TCE at 1,120 ug/m3. Because these soil vapor concentrations were measured near the site boundary, off-site soil vapor may be a concern for the residential buildings adjacent to the site.

Special Resources Impacted/Threatened: None.

6.4: Summary of Human Exposure Pathways

This human exposure assessment identifies ways in which people may be exposed to site-related contaminants. Chemicals can enter the body through three major pathways (breathing, touching or swallowing). This is referred to as *exposure.*

Access is restricted by a fence. However, people who enter may come into contact with contaminants in soil by walking on the site, digging, or otherwise disturbing the soil. People will not come into contact with site related groundwater contamination unless they dig below the surface. People are not drinking the contaminated water because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater and soil may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The site is vacant so inhalation of site contaminants in indoor air via vapor intrusion is not a current concern. However, the potential exists for inhalation of site contaminants due to soil vapor intrusion for any future on-site development. Further evaluation is needed to determine whether soil vapor intrusion is a concern for off-site structures.

6.5: Summary of the Remediation Objectives

The objectives for the remedial program have been established through the remedy selection process stated in 6 NYCRR Part 375. The goal for the remedial program is to restore the site to pre-disposal conditions to the extent feasible. At a minimum, the remedy shall eliminate or mitigate all significant threats to public health and the environment presented by the contamination identified at the site through the proper application of scientific and engineering principles.

The remedial action objectives for this site are:

Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Remove the source of ground or surface water contamination.

Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

Soil Vapor

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

SECTION 7: ELEMENTS OF THE SELECTED REMEDY

The alternatives developed for the site and the evaluation of the remedial criteria are presented in the Alternative Analysis. The remedy is selected pursuant to the remedy selection criteria set forth in DER-10, Technical Guidance for Site Investigation and Remediation and 6 NYCRR Part 375.

The selected remedy is a Track 4: Restricted use with site-specific soil cleanup objectives remedy.

The selected remedy is referred to as the Vapor Mitigation and Cover System remedy.

The elements of the selected remedy, as shown in Figure 2, are as follows:

1. Remedial Design

A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows:

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals; and

• Integrating the remedy with the end use where possible and encouraging green and sustainable re-development.

2. Excavation

Excavation and off-site disposal of contaminant source areas, including:

• grossly contaminated soil, as defined in 6 NYCRR Part 375-1.2(u);
• soil exceeding the USEPA and 6 NYCRR Part 371 hazardous criteria for lead; and
• removal of any underground storage tanks (USTs), fuel dispensers, underground piping or other structures associated with a source of contamination.

Approximately 1,600 cubic yards of contaminated soil (soil above restricted-residential SCOs in the upper 2 feet) will be removed from the site to allow installation of the cover system. Clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) will be brought in to complete the backfilling of the excavation and establish the designed grades at the site, where necessary. The site will be re-graded to accommodate installation of a cover system as described in remedy element 3. Additional excavation related to site development is not part of the remedy.

3. Cover System

A site cover will be required to allow for restricted-residential use of the site, in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). The site cover may consist of paved parking areas, sidewalks, or a soil cover. Where the soil cover is required it will be a minimum of two feet of soil placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative layer. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d). In areas where buildings or building foundations are located which preclude contact with site soil, they will serve in place of a site cover.

4. Soil Vapor Extraction

Soil vapor extraction (SVE) will be implemented to remove volatile organic compounds (VOCs) from the subsurface. VOCs will be physically removed from the soil by applying a vacuum to wells that have been installed into the vadose zone (the area below the ground but above the water table). The vacuum draws air through the soil matrix which carries the VOCs from the soil to the SVE well. The air extracted from the SVE wells is then treated as necessary prior to being discharged to the atmosphere.

Four SVE wells will be installed into the vadose zone and screened from 3 feet below the ground surface to a depth of approximately 7 feet. The air containing VOCs extracted from the SVE wells will be treated by passing the air stream through activated carbon, which removes the VOCs from the air prior to it being discharged to the atmosphere. The operation of the components of the remedy will continue until the remedial objectives have been achieved, or until the Department determines that continued operation is technically impracticable or not feasible.

5. Vapor Mitigation

Any on-site buildings will be required to have a sub-slab depressurization system, or a similar engineered system, to mitigate the migration of vapors into the building from soil and/or groundwater.

6. Institutional Control
Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8(h)(3);
- allow the use and development of the controlled property for restricted-residential use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH; and
- require compliance with the Department-approved Site Management Plan.

7. Site Management Plan
A Site Management Plan is required, which includes the following:
1. an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:

Institutional Controls: The environmental easement discussed in Paragraph 6, above.

Engineering Controls: The cover system discussed in Paragraph 3, the SVE system discussed in Paragraph 4, and the sub-slab depressurization system discussed in Paragraph 5, above.

This plan includes, but may not be limited to:

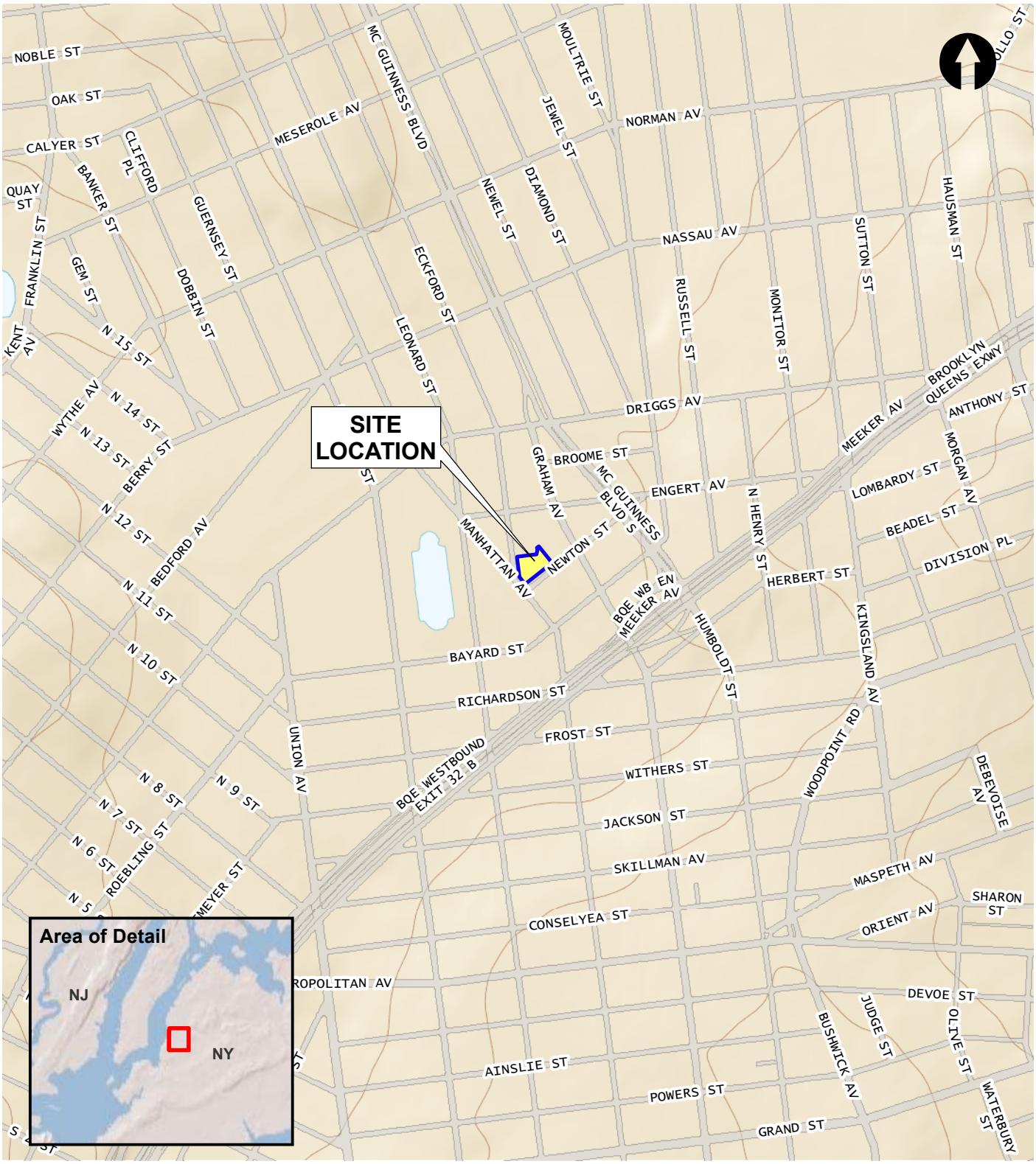
- an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
- descriptions of the provisions of the environmental easement including any land use and groundwater use restrictions;
- a provision that should an existing or future on-site building be demolished in the future, a cover system consistent with that described in Paragraph 3 above will be placed in any areas where the upper two feet of exposed surface soil exceed the applicable soil cleanup objectives (SCOs);
- provisions for the management and inspection of the identified engineering controls;
- maintaining site access controls and Department notification; and
- the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

2. a Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:

- monitoring of soil vapor to assess the performance and effectiveness of the remedy;
- a schedule of monitoring and frequency of submittals to the Department;

3. an Operation and Maintenance (O&M) Plan to ensure continued operation, maintenance, inspection, and reporting of any mechanical or physical components of the active vapor mitigation system(s). The plan includes, but is not limited to:

- procedures for operating and maintaining the system(s); and
- compliance inspection of the system(s) to ensure proper O&M as well as providing the data for any necessary reporting.



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

0 400 800 1,600

SCALE IN FEET

12 Eckford Street (a.k.a. 470 Manhattan Avenue)
Brooklyn, New York

SITE LOCATION

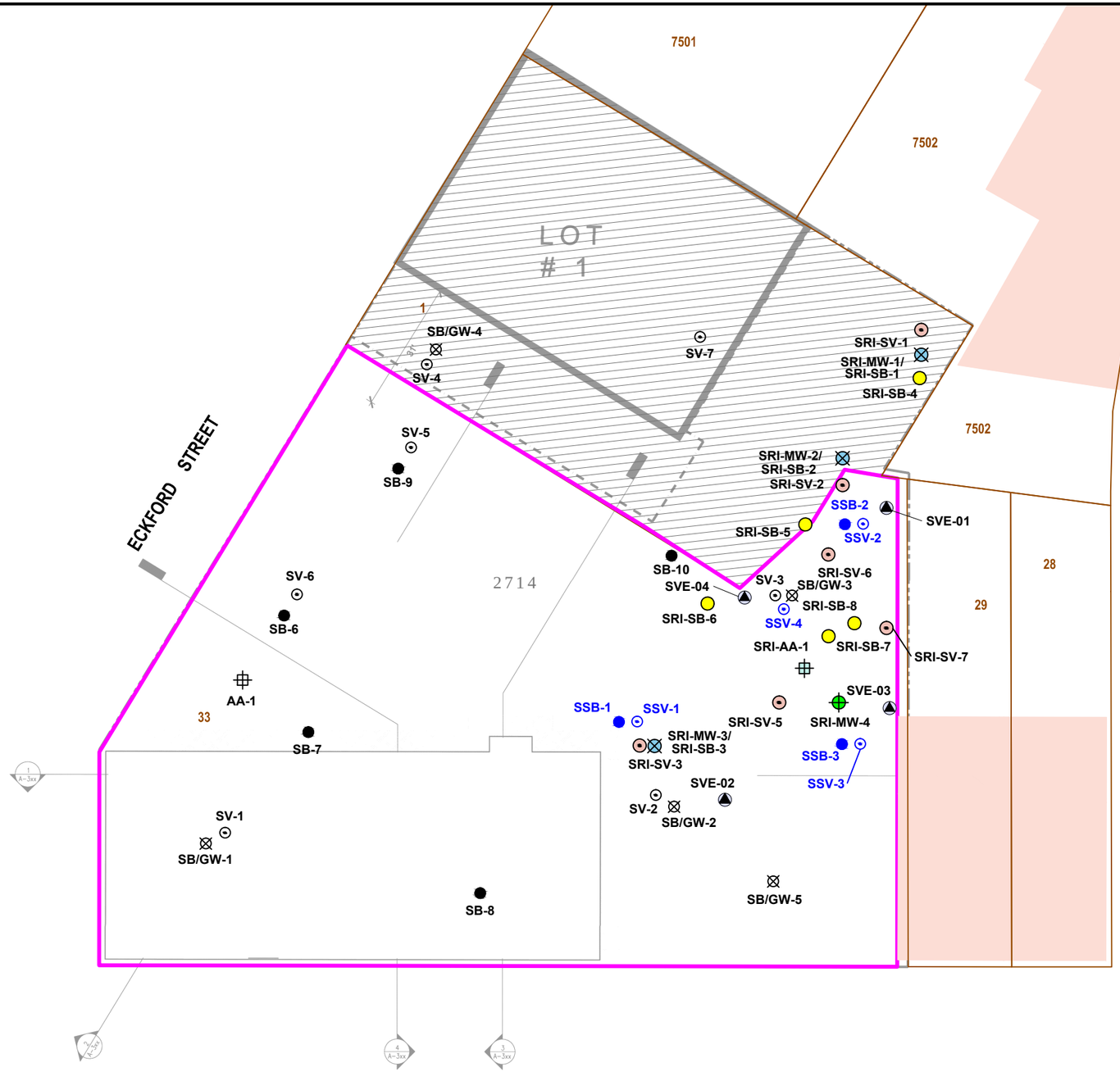
AKRF

AKRF Engineering, P.C.
440 Park Avenue South, New York, NY 10016

DATE
8/2/2016

PROJECT NO.
12306

FIGURE
1



LEGEND

28	LOT BOUNDARY AND NUMBER
2714	BLOCK NUMBER
	PROJECT SITE BOUNDARY
	PORTION OF LOT 1 (OFF-SITE)
SRI-SB-5	SUPPLEMENTAL REMEDIAL INVESTIGATION SOIL BORING LOCATION
SRI-SV-1	SUPPLEMENTAL REMEDIAL INVESTIGATION SOIL VAPOR POINT LOCATION
SVE-01	SUPPLEMENTAL REMEDIAL INVESTIGATION SOIL VAPOR EXTRACTION/PILOT TEST WELL LOCATION
SRI-MW-2	SUPPLEMENTAL REMEDIAL INVESTIGATION GROUNDWATER WELL/ SOIL BORING LOCATION
SRI-MW-4	SUPPLEMENTAL REMEDIAL INVESTIGATION GROUNDWATER WELL LOCATION
SRI-AA-1	SUPPLEMENTAL REMEDIAL INVESTIGATION AMBIENT AIR SAMPLE LOCATION
SSB-1	SUPPLEMENTAL SOIL BORING LOCATION
SSV-1	SUPPLEMENTAL SOIL VAPOR POINT LOCATION
SB-6	SOIL BORING LOCATION (AKRF, 2015)
SV-1	SOIL VAPOR POINT LOCATION (AKRF, 2015)
SB/GW-1	SOIL BORING/GROUNDWATER LOCATION (AKRF, 2015)
AA-1	AMBIENT AIR LOCATION (AKRF,2015)

0 15 30 60

SCALE IN FEET

Map Source:
GHWA Architects, LLP, "Cellar Floor Plan, A-100", Dated 11-17-2015.

AKRF Engineering, P.C.
440 Park Avenue South, New York, N.Y. 10016

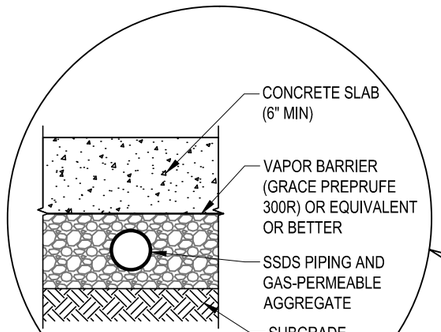
12 Eckford Street (a.k.a. 470 Manhattan Avenue)
Brooklyn, New York

SITE PLAN

DATE
8/3/2016

PROJECT NO.
12306

FIGURE
2



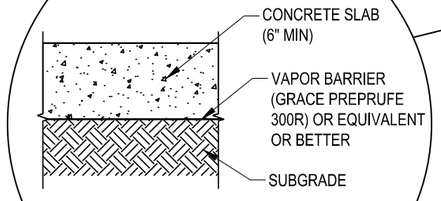
FIRST FLOOR SITE COVER
N.T.S.

LANDSCAPED AREA WITH 2' CLEAN FILL BUFFER
N.T.S.

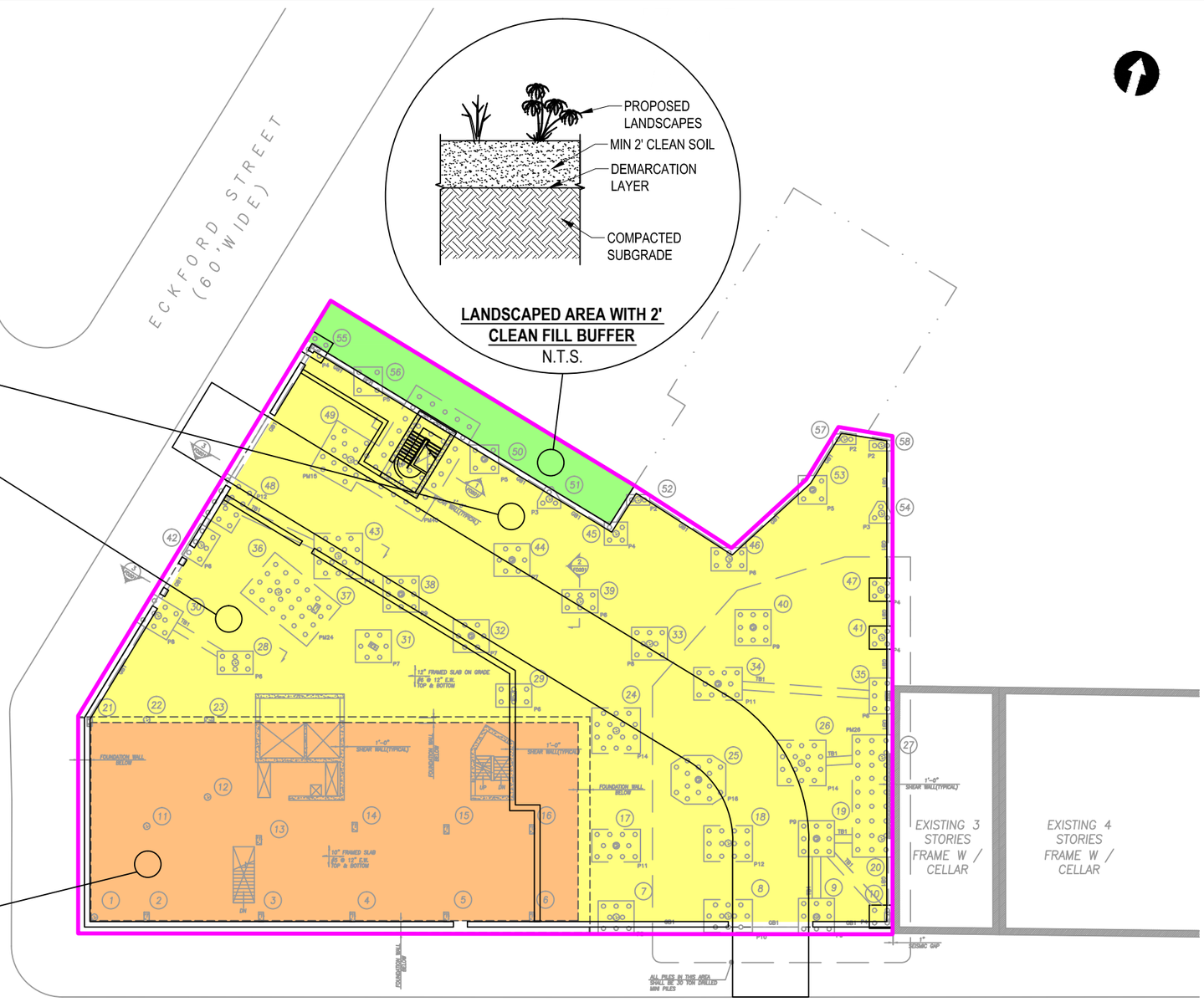
LEGEND

- PROJECT SITE BOUNDARY
- APPROXIMATE EXTENT OF EXCAVATION FOR CELLAR (12' BELOW GRADE)
- APPROXIMATE EXTENT OF EXCAVATION FOR SLAB-ON-GRADE BUILDING, PARKING, AND DRIVEWAY (4' BELOW GRADE)
- APPROXIMATE EXTENT OF GRADING FOR LANDSCAPED AREA

NOTE: Approximately 1,600 cubic yards of contaminated soil (soil above restricted-residential SCOs in the upper 2 feet) will be removed from the site and the site will be re-graded to accommodate installation of a cover system. Additional excavation related to site development is not part of the remedy.



CELLAR SITE COVER
N.T.S.



0 15 30 60
SCALE IN FEET

AKRF Engineering, P.C.
440 Park Avenue South, New York, N.Y. 10016

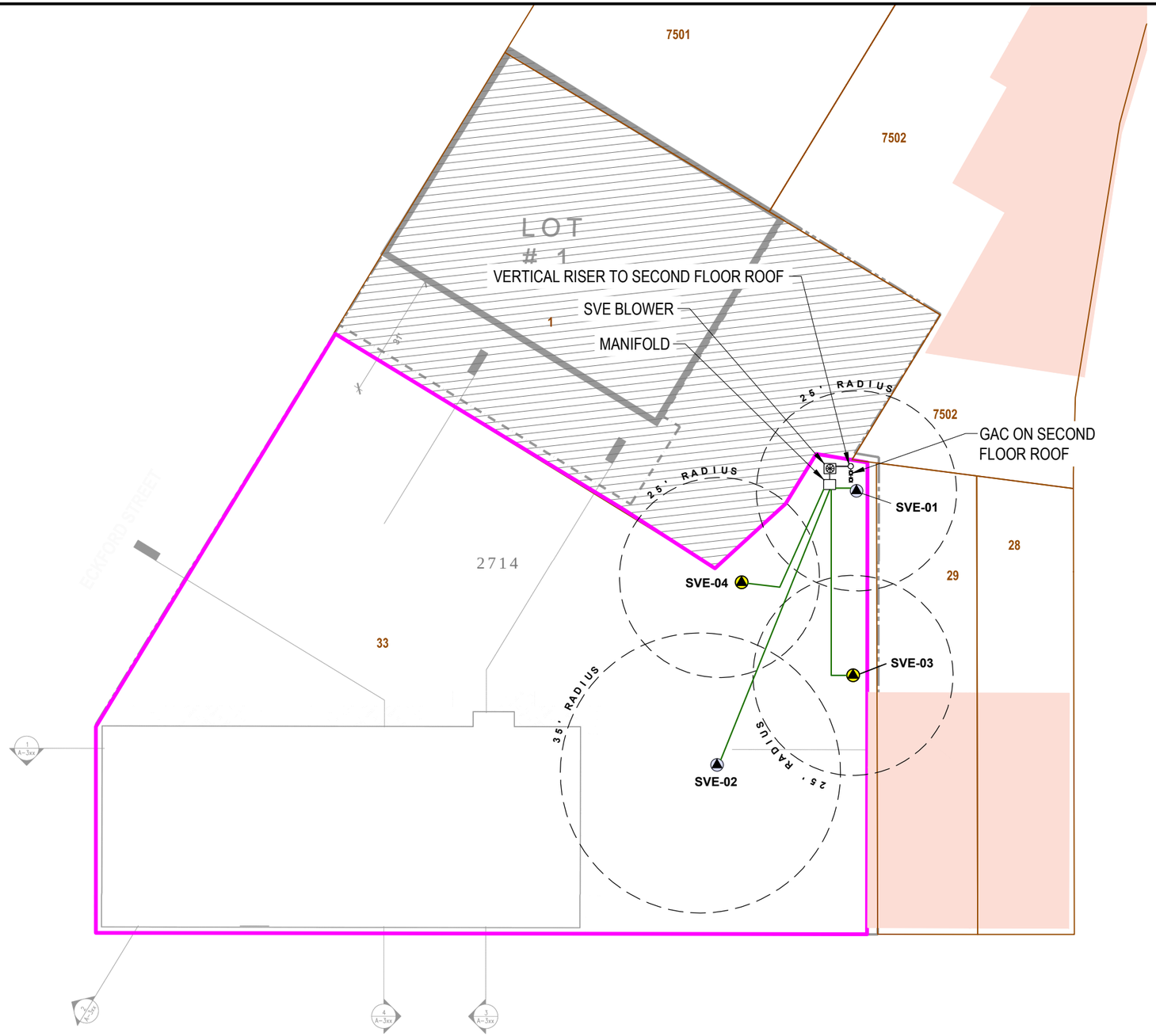
12 Eckford Street (a.k.a. 470 Manhattan Avenue)
Brooklyn, New York

COMPOSITE COVER SYSTEM

DATE
8/3/2016

PROJECT NO.
12306

FIGURE
3A



LEGEND

- 28 — LOT BOUNDARY AND NUMBER
- 2714 — BLOCK NUMBER
- PROJECT SITE BOUNDARY
- LOT 1 (OFF-SITE)
- EXISTING SOIL VAPOR EXTRACTION WELL LOCATION
- PROPOSED SOIL VAPOR EXTRACTION WELL LOCATION
- SUBSURFACE PVC PIPING

0 15 30 60

SCALE IN FEET

Map Source:
GHWA Architects, LLP, "Cellar Floor Plan, A-100", Dated 11-17-2015.

AKRF Engineering, P.C.
440 Park Avenue South, New York, N.Y. 10016

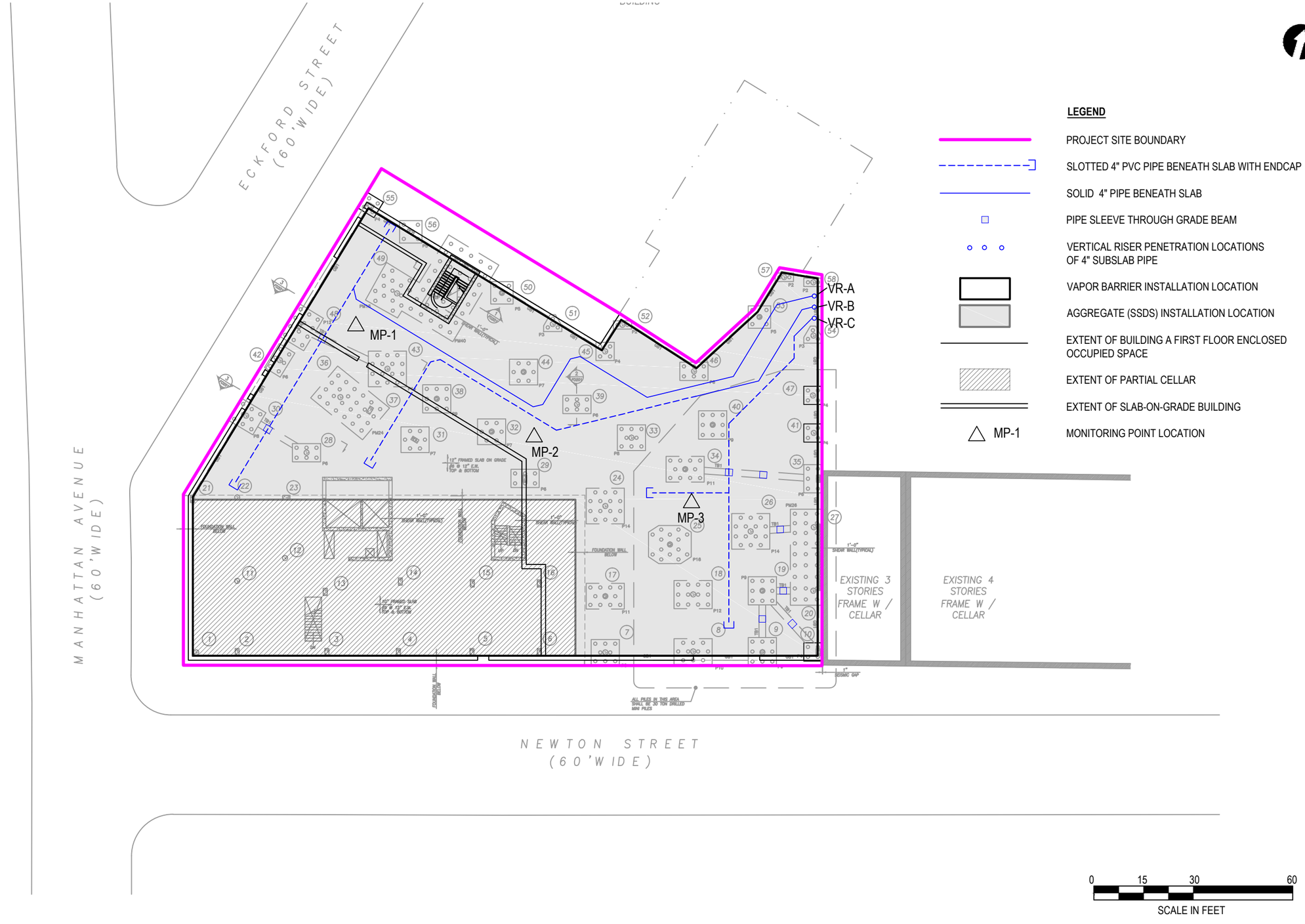
12 Eckford Street (a.k.a. 470 Manhattan Avenue)
Brooklyn, New York

SOIL VAPOR EXTRACTION SYSTEM PLAN

DATE
8/2/2016

PROJECT NO.
12306

FIGURE
3B



AKRF

AKRF Engineering, P.C.
440 Park Avenue South, New York, N.Y. 10016

12 Eckford Street (a.k.a. 470 Manhattan Avenue)
Brooklyn, New York

SUB-SLAB DEPRESSURIZATION SYSTEM PLAN

DATE
8/2/2016

PROJECT NO.
12306

FIGURE
3C

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Bureau of Technical Support
625 Broadway, 11th Floor, Albany, NY 12233-7020
P: (518) 402-9543 I F: (518) 402-9547
www.dec.ny.gov

August 22, 2016

New 470 LLC
Attn: Mr. Ron Walker
58 Vanderbilt Motor Parkway, Suite 100
Commack, NY 11725

RE: Brownfield Cleanup Application
New 470 Project
Site No. C224242

Dear Mr. Walker:

The New York State Department of Environmental Conservation (DEC) has received your application for participation in the Brownfield Cleanup Program (BCP) pursuant to Environmental Conservation Law (ECL) § 27-1401 et seq. We are pleased to advise you that your application has been determined to be complete based upon DEC's initial non-substantive review of your application package. While the application is complete, DEC may require additional information regarding site contamination in order to demonstrate that the site requires remediation pursuant to ECL § 27-1407(1). Additionally, if your application also seeks a determination that the site is eligible for tangible property credits under ECL § 27-1407(1-a), DEC may require additional information in order to make such a determination. If you propose additional material to supplement this application, DEC may consider it at its sole discretion. If additional material or information supplied significantly changes the scope of the site subject to the application, the Department may require you to publish another public notice of availability of the complete application. DEC would then adjust the time frame specified under ECL § 27-1407(6) for notifying you that your request for participation in the BCP is either accepted or rejected.

Pursuant to ECL § 27-1407(5), a 45-day public comment period is to begin after DEC's determination that an application is complete. DEC will publish a notice of the receipt of your application seeking public comment in the "Environmental Notice Bulletin." In accordance with the ECL and DEC regulations (see 6 NYCRR § 375-3.4(b)), you must notify, in writing, the Director of the Mayor's Office of Environmental Coordination and all parties on the site contact list[1] of the availability of the complete application for public review and comment.

In order to facilitate the notifications, DEC has prepared the enclosed document for your use as a Public Notice along with instructions. You are responsible for placing a copy of the application (including any attachments) and copies of all other related documents such as any site assessments, investigation reports, and/or remedial work plans in the document repository

[1] The site contact list includes (see section 375-1.2(as)) all interested "persons, government agencies, groups or organizations, including, but not limited to, the chief executive officer and zoning board of each county, city, town and village in which such site is located, the public water supplier which serves the area in which such site is located, any site residents, adjacent property owners, any person who has requested to be placed on the site contact list, and the administrator of any school or day care facility located on the site for the purposes of posting and/or dissemination at the facility. Provided, however, that where the site or adjacent real property contains multiple dwelling units, the remedial party may propose an alternative method, consistent with the citizen participation goals set forth in section 375-1.10, for providing such notice in lieu of mailing to each individual."

before the start of the public comment period. The language in the enclosed Public Notice must be used without alteration in the newspaper notice that you have published in accordance with sections 375-3.2(f) and 375-3.10.

The enclosed public notice must be provided to a local newspaper servicing the area including the site for publication no later than August 31, 2016. By August 30, 2016, the other notifications specified above must be distributed and documents placed in the repository. To the extent that the mailings and publications are not completed in accordance with these time frames, DEC will extend the comment period for a period sufficient to comply with the required public notice requirements running from the latest of these mailings and publications.

Within five days of the mailings, you must submit a "certificate of mailing" using the enclosed form. Additionally, you must submit a proof of publication provided by the newspaper within three days of your receipt of such document. Please submit these documents to DEC's Project Manager:

Larry Alden
NYS Dept. of Environmental Conservation
Division of Environmental Remediation – Bureau B
625 Broadway, 12th Floor
Albany, NY 12233-7016
larry.alden@dec.ny.gov

DEC will use all best efforts to notify you if the application is accepted or rejected within five days after the close of the public comment period. We look forward to working cooperatively to address the environmental conditions at the brownfield site and return this property to productive use.

Sincerely,

Kelly A. Lewandowski

Kelly A. Lewandowski, P.E.
Chief, Site Control Section

Enclosures
ec w/enc.: L. Alden, Project Manager
R. Cozzy, Director, Remedial Bureau B
M. Komoroske, Section Chief, Remedial Bureau B – Section A
J. O'Connell, RHWRE, Region 2
A. Guglielmi, NYSDEC – OGC, Remediation Bureau
R. Seebacher, Project Attorney
K. Mintzer, Regional Attorney, Region 2
K. Anders, NYSDOH
J. Deming, NYSDOH Regional Chief
B. Anderson, Site Control Section
K. Lewandowski
Ron Walker, Requestor's Representative (rwalker@heatherwood.com)
Marc Godick, Requestor's Consultant (mgodick@akrf.com)
Carolyn J. Purcell-Smith, PLLC, Requestor's Attorney (cjpsesq@gmail.com)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau B
625 Broadway, 12th Floor, Albany, NY 12233-7016
P: (518) 402-9768 I F: (518) 402-9773
www.dec.ny.gov

December 1, 2016

New 470 LLC
Ron Walker
58 Vanderbilt Motor Parkway, Suite 100
Commack, NY 11725

Re: New 470 Project
Site ID No. C224242
Brooklyn, Kings County
Remedial Work Plan & Decision Document

Dear Mr. Walker:

The New York State Department of Environmental Conservation (Department) and the New York State Department of Health (NYSDOH) have reviewed the Remedial Work Plan (RWP) for the New 470 Project site dated November 17, 2016 and prepared by AKRF Engineering, P.C. on behalf of New 470 LLC. The RWP is hereby approved. Please ensure that a copy of the approved RWP is placed in the document repositories. The draft plan should be removed.

Attached is a copy of the Department's Decision Document for the site. The remedy is to be implemented in accordance with this Decision Document. Please ensure that a copy of the Decision Document is placed in the document repositories.

Please contact the Department's Project Manager, Larry Alden, at 518-402-9767 or larry.alden@dec.ny.gov at your earliest convenience to discuss next steps. Please recall the Department requires seven days' notice prior to the start of field work.

Sincerely,

Robert J. Cozzy, P.E.
Director
Remedial Bureau B
Division of Environmental Remediation

Enclosure

ec *w/attachments*:

R. Schick
M. Ryan
R. Cozzy
M. Komoroske
J. O’Connell
L. Alden
R. Seebacher
K. Anders - DOH
J. Deming - DOH
R. Ghosh - DOH
M. Godick - AKRF
C. Purcell-Smith, Esq.

ver 2015-09-01

AKRF

Amy Jordan <ajordan@akrf.com>

RE: EPA ID Form - As discussed 2/24-New 470 Project

2 messages

Castro, Lilian <castro.lilian@epa.gov> Mon, Feb 27, 2017 at 2:01 PM
To: Amy Jordan <ajordan@akrf.com>
Cc: "Marquez, Louisa" <Marquez.Louisa@epa.gov>

Dear Amy Jordan,

Thank you for your email. This email is to inform you that your application has been processed.

The EPA ID# for New 470 Project is NYR000230789

Please confirm receipt of this email.

Please let me know if you may have any questions.

Thank you,

Lilian Castro

USEPA Region 2

212-637-3127

From: Amy Jordan [mailto:ajordan@akrf.com]
Sent: Monday, February 27, 2017 10:27 AM
To: Marquez, Louisa <Marquez.Louisa@epa.gov>
Cc: Castro, Lilian <castro.lilian@epa.gov>
Subject: Re: EPA ID Form - As discussed 2/24

Great, thanks. 'New 470 Project' is the official site name in the state BCP, so I was hoping we could be consistent for the hazardous waste ID.

On Mon, Feb 27, 2017 at 10:21 AM, Marquez, Louisa <Marquez.Louisa@epa.gov> wrote:

> OK
>
> FOUND APPLICATION
>
> PLEASE PROVIDE A NEW SITE NAME AS WE CAN NOT USE THE ONE LISTED ON THE APPLICATION
>
> THANKS
>
> **From:** Amy Jordan [mailto:ajordan@akrf.com]
> **Sent:** Friday, February 24, 2017 4:00 PM
> **To:** Marquez, Louisa <Marquez.Louisa@epa.gov>
> **Subject:** EPA ID Form - As discussed 2/24
>
> Louisa,
>
> As discussed, attached are the proof of fed ex receipt and the executed form. This is the address someone from your office told me to send the form to.
>
> Thanks again,
>
> Amy
>
> --
>
> **Amy Jordan**
>
> **Senior Environmental Professional**
>
> .....
>
> **AKRF**
> *Environmental, Planning, and Engineering Consultants*
>
> 440 Park Ave South, 7th Floor | New York, NY 10016
>
> O) 646.388.9864 | C) 610.405.2847 | F) 212.213.3191
>
> www.akrf.com

--

Amy Jordan

Senior Environmental Professional

.....

AKRF
Environmental, Planning, and Engineering Consultants

440 Park Ave South, 7th Floor | New York, NY 10016

O) 646.388.9864 | C) 610.405.2847 | F) 212.213.3191

www.akrf.com

Amy Jordan <ajordan@akrf.com> Mon, Feb 27, 2017 at 3:52 PM
To: "Castro, Lilian" <castro.lilian@epa.gov>
Cc: "Marquez, Louisa" <Marquez.Louisa@epa.gov>, Marc Godick <mgodick@akrf.com>

Confirmed. Thanks Lilian.
[Quoted text hidden]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau B
625 Broadway, 12th Floor, Albany, NY 12233-7016
P: (518) 402-9768 I F: (518) 402-9773
www.dec.ny.gov

July 10, 2018

Ron Walker
New 470 LLC
58 Vanderbilt Motor Parkway, Suite 100
Commack, NY 11725

RE: Request for sampling of Emerging Contaminants
New 470 Project
C224242

Dear Mr. Walker:

The New York State Department of Environmental Conservation (DEC) is undertaking a Statewide evaluation of remediation sites to better understand the risk posed to New Yorkers by 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS). PFAS have historically not been evaluated at remediation sites, and 1,4-dioxane has not been evaluated at the levels that are now thought to represent a health concern. This initiative is being undertaken as a result of these "emerging contaminants" having been found in a number of drinking water supplies in New York. Accordingly, the DEC is requiring that you test site groundwater for these chemicals. To accommodate this requirement, a select number of existing monitoring wells or grab samples if no wells are available, representative of the potential of the above-referenced site to be a source of these emerging contaminants, must be sampled. As discussed with your consultant, AKRF, one grab sample shall be collected in the Northeast corner of the site and analyzed, for PFAS and 1,4-dioxane, as well as a full VOC scan to better inform the potential off-site contamination entering the site. Additionally, a second grab groundwater sample shall be collected near the center of the site and analyzed for PFAS and 1,4-dioxane.

The attached guidance provides information on the analytical methods and reporting requirements. A second guidance document describes special precautions that need to be considered when sampling for PFAS.

If you wish to discuss the scope of the requested water testing, please contact me at Steven.Walsh@dec.ny.gov or 518-402-9824.

Sincerely,

Steve Walsh
Remedial Bureau B
Division of Environmental Remediation

Ec:
A. Jordan, AKRF
M. Godick, AKRF
J. Brown, NYSDEC
J. Deming, NYSDOH
A. Ghosh, NYSDOH

Walsh, Steven J (DEC) 10:45 AM (23 hours ago)

to me

Hi Amy,
I just talked with the group handling emerging contaminant sampling about your question of sampling while there is dewatering occurring. Because there are no wells currently on site, we are not requiring sampling for ECs at this site. I apologize for the late notice.

Steve

From: Amy Jordan <ajordan@akrf.com>
Sent: Friday, November 09, 2018 12:04 PM
To: Walsh, Steven J (DEC) <Steven.Walsh@dec.ny.gov>
Cc: Marc Godick <mgodick@akrf.com>; Victor Chang <vchang@akrf.com>
Subject: Re: Emerging Contaminant Sampling New 470 C224242

Steve -

Amy Jordan <ajordan@akrf.com> 10:57 AM (23 hours ago)

to Steven, Marc, Victor

Great, thanks so much.

Click here to Reply, Reply to all, or Forward

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Office of the Director
625 Broadway, 12th Floor, Albany, New York 12233-7011
P: (518) 402-9706 | F: (518) 402-9020
www.dec.ny.gov

April 1, 2019

Dear Brownfield Cleanup Program Applicant:

I am pleased to advise you that the New York State Department of Environmental Conservation (Department) is currently tracking your site in the Brownfield Cleanup Program (BCP) for completion of remedial work and potential issuance of a Certificate of Completion (COC) in 2019. The list of sites currently scheduled for completion this year is attached. Issuance of the COC represents a significant accomplishment for the entire team. Our experience indicates that understanding the process and allowing sufficient time for review and approval is necessary in order to ensure timely issuance of the COC. This is especially true as the calendar year draws to a close and voluminous year-end work products are being finalized for those COCs being sought by December 31st.

In an effort to facilitate the timely issuance of the COCs, the Division of Environmental Remediation (DER) and the Office of General Counsel are holding an informational session for BCP Applicants on May 22, 2019 setting a schedule (see Enclosure 1) that facilitates – but doesn't guarantee – issuance by December. DER is currently tracking approximately 100 BCP completions for 2019. Given the number of projects, it will be critical that the meetings set forth in this letter be attended by the Applicant and that all submissions be made in strict accordance with the schedule set forth herein. We have found that these meetings were very successful in facilitating COC issuance in recent years.

Informational Session and Schedule

The information session will be held at the Empire State Plaza, Meeting Room 6 in Albany beginning at 10:30 am. A map of the plaza is enclosed. Applicants who are seeking to receive a COC by December 31st are expected to attend and should also bring their representatives (e.g., consultants and attorneys), who have also been copied on this letter.

This session will provide an overview of the technical and legal requirements for the balance of the remedial process as well as the various templates that are available for use to complete this project. Importantly, Department staff will share lessons learned from prior years' experiences that will provide valuable insight into navigating your project to remedial closure. The critical path to obtain a COC will be discussed in detail during the informational session. This letter also sets forth the critical path milestones (see Enclosure 1). For those seeking a COC by December 31st, failure to make submissions consistent with the enclosed schedule will not provide sufficient time for the COC to be issued by December 31st and may result in the delay or loss of the Brownfield Tax Credits.

In an effort to facilitate timely completion for Applicant's meeting the attached schedule, the Department will focus its staff time on those projects which timely submit the documents. Accordingly, absent unusual circumstances, submissions after the dates set forth below would preclude the issuance of the COC by December 31st and would affect the timing or availability of any tax credits to which you may be entitled. It is important to note that compliance with this schedule enhances the opportunity for the COC issuance, but it is not a guarantee and doesn't create any rights.

Due to the large number of projects scheduled for completion this year, the Department will not be holding Calendar Call meetings, as we have in the past. It will therefore be incumbent on you, your consultant and your attorney to ensure that your project meets the milestones listed in Enclosure 1 of this letter. The Department's project team will track your compliance with the milestones listed in Enclosure 1, and work with you to resolve outstanding issues.

I strongly encourage you to attend the May 22nd meeting, along with your technical and legal team, to take advantage of this opportunity to understand the process and timing necessary to receive a COC. Also enclosed is a reservation form (Enclosure 2). Please sign and return the form to the address noted by May 1, 2019 and include the names of those attending.

Feel free to call Ms. Jennifer Hathaway at 518-402-9706, if you have any questions or need additional information.

Sincerely,

Michael J. Ryan, P.E.
Director
Division of Environmental Remediation

Enclosures

ec: Applicant Attorney
Applicant Consultant

Enclosure 1: Milestones for Receipt of a Certificate of Completion by December 31, 2019

ACTION	LAST DATE FOR ACTION
Environment Easement (EE) Package, to include: • Draft Easement • Title Report submitted • Site Survey	May 1, 2019: If changes to EE from the template are requested, they must be submitted with a letter detailing the changes and reasons. June 1, 2019: If EE follows the template.
Draft Site Management Plan Submitted	August 1, 2019
Construction Completed, SMP Approval, Submittal of electronic data in EQuIS format, Environment Easement Executed, Draft Final Engineering Report Submitted	October 1, 2019
Environmental Easement Recorded and Notices Provided	October 15, 2019
Final Engineering Report submitted in final form	November 15, 2019

Enclosure 2: Reservation Form

RETURN BY May 1, 2019

BCP Site #: _____

Site Name: _____

Applicant: _____

RE: **BCP COC Seminar**

Date: May 22, 2019
Time: 10:30 am to 1:00 pm
Location: Meeting Room 6
Empire State Plaza
Albany, NY

☐ I will be attending the COC Seminar. Those attending with me are as follows:

_____

_____

_____

☐ I will not be attending the COC Seminar.

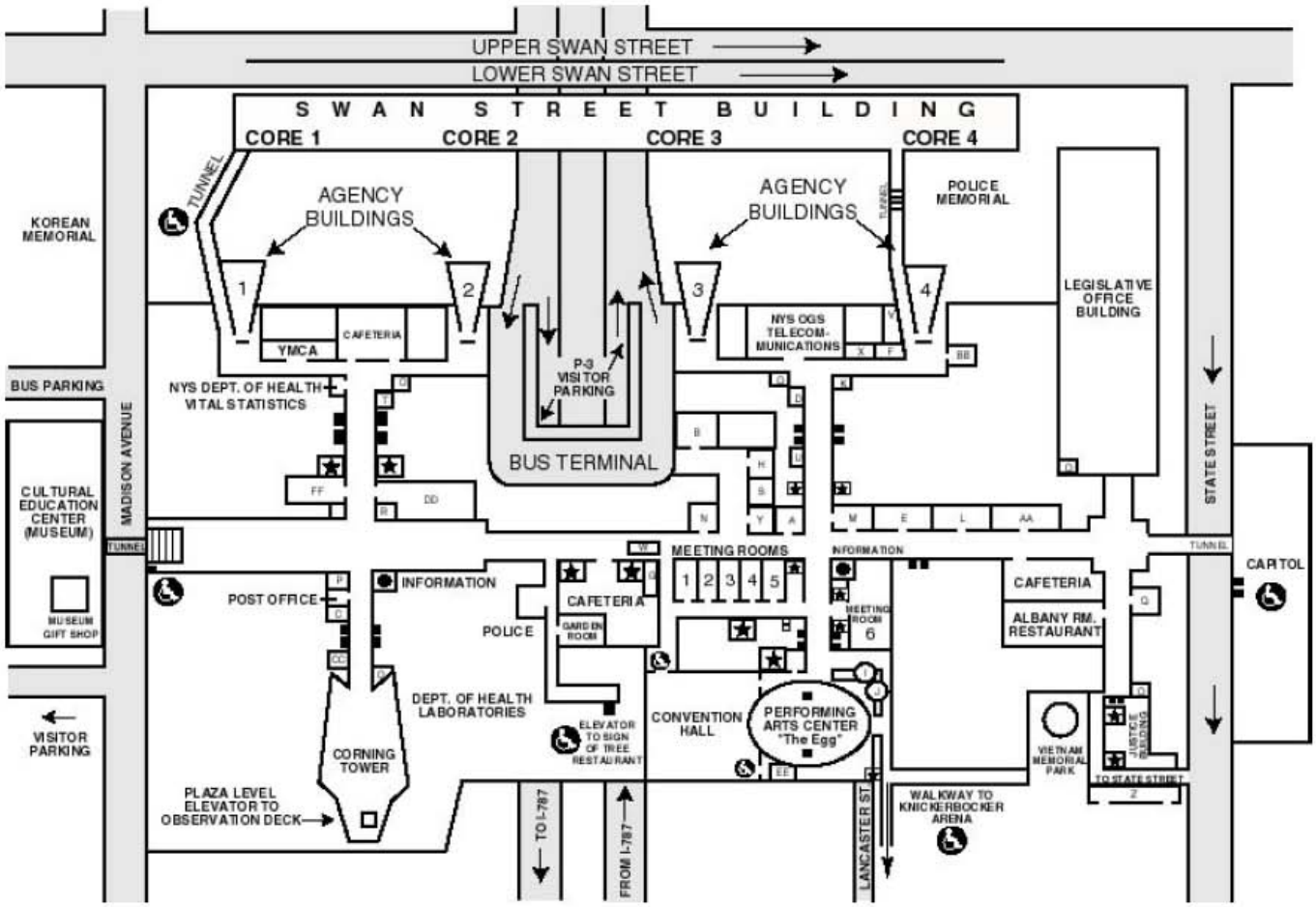
☐ I do not intend to get a COC in 2019.

_____
Applicant's Signature

Please Return to:
Division of Environmental Remediation
Attn: Jennifer Hathaway
NYSDEC
625 Broadway
Albany, NY 12233-7011
jennifer.hathaway@dec.ny.gov

The Governor Nelson A. Rockefeller Empire State Plaza

Concourse Level Map



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau B
625 Broadway, 12th Floor, Albany, NY 12233-7016
P: (518) 402-9767 I F: (518) 402-9773
www.dec.ny.gov

April 4, 2019

Ron Walker
New 470 LLC
58 Vanderbilt Motor Parkway, Suite 100
Commack, NY 11725

Re: Environmental Easement for New 470 Project *("Site")*
Site ID No.: C224242
Brooklyn, Kings County

Dear Mr. Walker*:*

The above referenced Site requires an Environmental Easement as part of the remediation process. Information on finalizing remedial projects may be found on the Department's website at http://www.dec.ny.gov/chemical/48236.html. There are several items which constitute the New York State Department of Environmental Conservation's standard Environmental Easement package. These items include the following:

a) Title requirements;
b) Survey requirements;
c) Attorney/Applicant Checklist and Certification; and
d) Notice form.

Please note that the requirements for completing an environmental easement have recently been significantly reduced. Information on these items can be found on the Department's website page at the following links:

Title Requirements - http://www.dec.ny.gov/chemical/48231.html

Survey Requirements - http://www.dec.ny.gov/chemical/48242.html

Easement Checklist - http://www.dec.ny.gov/chemical/65118.html

Please work with your attorney to compile the package and submit it within 60 days of the date of this letter. Upon receipt of these documents the Department will prepare the Environmental Easement and transmit it to you for signature. Any questions regarding the legal requirements should be addressed to **Bradford Burns, Senior Attorney,** Office of General Counsel, at 518-402-9188 or by email: bradford.burns@dec.ny.gov. When the package has been completed with site-specific information, a hard copy must be submitted in its entirety to:

Bradford Burns, Esq.
New York State Department of Environmental Conservation
Office of General Counsel
625 Broadway
Albany, NY 12233-1500

An electronic copy of the package should be forwarded to:

Bradford Burns, Esq.
bradford.burns@dec.ny.gov

Steve Walsh
steven.walsh@dec.ny.gov

and

Rachel Seebacher
rachel.seebacher@dec.ny.gov

Please be advised that failure to include all the necessary documentation/information required in the Environmental Easement package will result in a delay of Department review and approval of the Easement.

If you have any questions concerning the technical aspects of this matter, please contact me at steven.walsh@dec.ny.gov.

Sincerely,

Steve Walsh

cc: G. Burke, NYSDEC
J. Grathwol, NYSDEC
R. Seebacher, NYSDEC
B. Burns, NYSDEC
S. Garlick, NYSDEC
A. Jordan, AKRF
M. Godick, AKRF
C. Purcell-Smith, Carolyn J. Purcell-Smith

NYC Buildings

Work Permit Department Of Buildings

Permit Number: **B00139217-I1-SF**

Issued: **04/01/2019**

Expires: **04/01/2020**

Address: **BROOKLYN 117 NEWTON STREET**

Issued To: **CHARLES TALISSE**

Work on Floor(s): **FAÇ 1 THRU 8**

Business: **CS BRIDGE CORP**

License No: **GC-603235**

Description: **INSTALLATION OF SUPPORTED SCAFFOLD AS RUNBACK STRUCTURE FOR CONSTRUCTION HOIST (FILED SEPARATELY) AS PER PLAN SUBMITTED. WORK SHALL COMPLY WITH 2014 BUILDING CODE, NO CHANGE IN USE, EGRESS AND/OR OCCUPANCY WITH THIS APPLICATION.**

For detailed information regarding this permit, please log on to DOB NOW at www.nyc.gov/buildings.
Call 311 with any questions or complaints.

Borough Commissioner:

Commissioner of Buildings:

Acting Commissioner of Buildings

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is punishable by a fine, imprisonment or both.

NYC Buildings

Work Permit Department Of Buildings

Permit Number: **B00139217-I1-SF**

Issued: **03/13/2019**

Expires: **03/13/2020**

Address: **BROOKLYN 117 NEWTON STREET**

Issued To: **CHARLES TALISSE**

Work on Floor(s): **FAÇ 1 THRU 8**

Business: **CS BRIDGE CORP**

License No: **GC-603235**

Description: **INSTALLATION OF SUPPORTED SCAFFOLD AS RUNBACK STRUCTURE FOR CONSTRUCTION HOIST (FILED SEPARATELY) AS PER PLAN SUBMITTED. WORK SHALL COMPLY WITH 2014 BUILDING CODE, NO CHANGE IN USE, EGRESS AND/OR OCCUPANCY WITH THIS APPLICATION.**

For detailed information regarding this permit, please log on to DOB NOW at www.nyc.gov/buildings.
Call 311 with any questions or complaints.

Borough Commissioner:

Commissioner of Buildings:

Acting Commissioner of Buildings

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is punishable by a fine, imprisonment or both.

NYC Buildings

Work Permit Department Of Buildings

Permit Number: **B00045790-I1-FN**

Issued: **05/22/2018**

Expires: **05/22/2019**

Address: **BROOKLYN 117 NEWTON STREET**

Issued To: **PO SHENG HSU**

Work on Floor(s): **OPE 000 THRU 000**

Business: **TRI BOROUGH SCAFFOLDING**

License No: **GC-606141**

Description: **INSTALLATION OF FENCE AS PER PLANS. NO CHANGE IN USE, EGRESS OR OCCUPANCY.**

For detailed information regarding this permit, please log on to DOB NOW at www.nyc.gov/buildings.
Call 311 with any questions or complaints.

Borough Commissioner:

Commissioner of Buildings:

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is punishable by a fine, imprisonment or both.

NYC Buildings

Work Permit Department Of Buildings

Permit Number: **B00045790-I1-FN**

Issued: **11/28/2018**

Expires: **11/28/2019**

Address: **BROOKLYN 117 NEWTON STREET**

Issued To: **PO SHENG HSU**

Work on Floor(s): **OPE 000 THRU 000**

Business: **TRI BOROUGH SCAFFOLDING**

License No: **GC-606141**

Description: **INSTALLATION OF FENCE AS PER PLANS. NO CHANGE IN USE, EGRESS OR OCCUPANCY.**

For detailed information regarding this permit, please log on to DOB NOW at www.nyc.gov/buildings.
Call 311 with any questions or complaints.

Borough Commissioner:

Commissioner of Buildings:

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is punishable by a fine, imprisonment or both.

NYC Buildings

Work Permit Department Of Buildings

Permit Number: **B00164885-I1-SH**

Issued: **05/09/2019**

Expires: **04/01/2020**

Address: **BROOKLYN 117 NEWTON STREET**

Issued To: **CHARLES TALISSE**

Work on Floor(s): **SID 1 THRU 1**

Business: **CS BRIDGE CORP**

License No: **GC-603235**

Description: **INSTALLATION OF TEMPORARY SIDEWALK SHED PER PLAN SUBMITTED. WORK SHALL COMPLY WITH 2014 BUILDING CODES CHAPTER 33. NO CHANGE IN USE, EGRESS AND/OR OCCUPANCY WITH THIS APPLICATION.**

For detailed information regarding this permit, please log on to DOB NOW at www.nyc.gov/buildings.
Call 311 with any questions or complaints.

Borough Commissioner:

Commissioner of Buildings:

Acting Commissioner of Buildings

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is punishable by a fine, imprisonment or both.

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Application Details

The below information does not include work types submitted in DOB NOW; use the DOB NOW Public Portal to access DOB NOW records.

Premises: 117 NEWTON STREET BROOKLYN
BIN: 3425854 Block: 2714 Lot: 33

Job No: 340677388
Document: 01 OF 1
Job Type: A3 - ALTERATION TYPE 3

Document Overview | Items Required | Virtual Job Folder | All Permits
Fees Paid | Forms Received | All Comments
Crane Information | Plan Examination
After Hours Variance Permits

DOB NOW: *Inspections*

This job is not subject to the Department's Development Challenge Process. For any issues, please contact the relevant borough office.

---------- * PROFESSIONALLY CERTIFIED * ----------

Last Action: PERMIT ISSUED - ENTIRE JOB/WORK 05/15/2019 (R)
Application approved on: 05/14/2019

Pre-Filed: 05/14/2019 **Building Type:** Other **Estimated Total Cost:** $0.00
Date Filed: 05/14/2019 **Electronically Filed:** Yes : Hub *Self-Service*
Fee Structure: STANDARD
Review is requested under Building Code: 2014

Job Description Comments

1 Location Information (Filed At)

House No(s): 117 **Street Name:** NEWTON STREET
Borough: Brooklyn **Block:** 2714 **Lot:** 33 **BIN:** 3425854 **CB No:** 301
Work on Floor(s): RF **Apt/Condo No(s):** **Zip Code:** 11222

2 Applicant of Record Information

Name: KAROL ZDANCEWICZ
Business Name: KZ ENGINEERING **Business Phone:** 212-729-3559
Business Address: 116 NASSAU STREET SUITE 808 NEW YORK NY 10038 **Business Fax:**
E-Mail: KAROL@SYNERGYBCS.COM **Mobile Telephone:**
License Number: 090372

Applicant Type: ☒ P.E. ☐ R.A ☐ Sign Hanger ☐ R.L.A. ☐ Other

Directive 14 Applicant
Not Provided
Previous Applicant of Record
Not Applicable

3 Filing Representative

Name: JOEL/HAN/MAR/MI GONZA/MERCE/POPO/ZAY
Business Name: SYNERGY BUILDING CONSULTANTS
Business Phone: 212-729-3559
Business Address: 116 NASSAU STREET SUITE 808 NEW YORK NY 10038
Business Fax:
E-Mail: INFO@SYNERGYBCS.COM
Mobile Telephone:
Registration Number:

4 Filing Status

Click Here to View

5 Job Types

- ☐ **Alteration Type 1 or Alteration Type 1 required to meet New Building requirements (28-101.4.5)**
- ☐ **Alteration Type 1, OT "No Work"**
- ☐ **Alteration Type 2**
- ☒ **Alteration Type 3**
- ☐ **Sign**
- ☐ **New Building**
- ☐ **Full Demolition**
- ☐ **Subdivision: Improved**
- ☐ **Subdivision: Condo**

Directive 14 acceptance requested? ☒ Yes ☐ No

6 Work Types

- ☐ **BL - Boiler**
- ☐ **FA - Fire Alarm**
- ☐ **FB - Fuel Burning**
- ☐ **FS - Fuel Storage**
- ☐ **FP - Fire Suppression**
- ☐ **MH - Mechanical**
- ☐ **PL - Plumbing**
- ☐ **SD - Standpipe**
- ☐ **SP - Sprinkler**
- ☒ **EQ - Construction Equipment**
- ☐ **CC - Curb Cut**
- ☐ **OT - Other**

7 Plans/Construction Documents Submitted

Plans Page Count: 0002

8 Additional Information

Not Applicable

9 Additional Considerations, Limitations or Restrictions

Yes	No		Yes	No	
☐	☒	**Alt. required to meet New Building req's (28-101.4.5)**	☐	☒	**Alteration is a major change to exits**
			☐	☒	**Change in number of dwelling units**
			☐	☒	**Change in Occupancy / Use**
			☐	☒	**Change is inconsistent with current certificate of occupancy**
			☐	☒	**Change in number of stories**

☐	☒	**Facade Alteration**	☐	☒	**Infill Zoning**
☐	☒	**Adult Establishment**	☐	☒	**Loft Board**
☐	☒	**Compensated Development (Inclusionary Housing)**	☐	☒	**Quality Housing**
☐	☒	**Low Income Housing (Inclusionary Housing)**	☐	☒	**Site Safety Job / Project**
☐	☒	**Single Room Occupancy (SRO) Multiple Dwelling**	☐	☒	**Included in LMCCC**
☐	☒	**Filing includes Lot Merger / Reapportionment**	**Work Includes:**		
			☐	☒	**Prefab wood I-joists**
			☐	☒	**Structural cold-formed steel**
			☐	☒	**Open-web steel joists**

☐	☒	**Landmark**
☒	☐	**Environmental Restrictions (Little E or RD)**
☐	☒	**Unmapped/CCO Street**
☐	☒	**Legalization**
☐	☒	**Other, Specify:**
☐	☒	**Filed to Comply with Local Law**
☐	☒	**Restrictive Declaration / Easement**
☐	☒	**Zoning Exhibit Record (I,II,III,etc)**
☐	☒	**Filed to Address Violation(s)**

☐ N **Work includes lighting fixture and/or controls, installation or replacement. [ECC §404 and §505]**
☐ N **Work includes modular construction under New York State jurisdiction**
☐ N **Work includes modular construction under New York City jurisdiction**
☐ N **Structural peer review required per BC §1627** **Peer Reviewer License No.(P.E.):**
☐ N **Work includes permanent removal of standpipe, sprinkler or fire suppression related systems**
☐ N **Work includes partial demolition as defined in AC §28-101.5, or the raising/moving of a building**
☐ N **Structural Stability affected by proposed work**

BSA Calendar No.(s):
CPC Calendar No.(s):

10 NYCECC Compliance ***New York City Energy Conservation Code*** **(Applicant Statement)**

☐ **To the best of my knowledge, belief and professional judgment, this application is in compliance with the NYCECC.**
☐ **Energy analysis is on another job number:**

Yes No
☐ ☐ **This application is, or is part of, a project that utilizes trade-offs among different major systems**
☐ ☐ **This application utilizes trade-offs within a single major system**

☒ **To the best of my knowledge, belief and professional judgment, all work under this application is exempt from the NYCECC in accordance with one of the following:**

11 Job Description

INSTALLATION OF TEMPORARY ROOF PROTECTION AS PER PLAN SUBMITTED. WORK SHALL COMPLY WITH 2014 BUILDING CODES CHAPTER 33. NO CHANGE IN USE, EGRESS OR OCCUPANCY.

Related BIS Job Numbers:
Primary application Job Number:

12 Zoning Characteristics

District(s): M1-2/R6A - LIGHT MANUFACTURING DISTRICT (SPECIAL MIXED USE DISTRICT)
Overlay(s):
Special District(s): MX-8 - MIXED USE-8 (GREENPOINT-WILLIAMSBURG, BK)
Map No.: 13a **Street legal width (ft.):** **Street status:** ☐ Public ☐ Private
Zoning lot includes the following tax lots: Not Provided

13 Building Characteristics

	Existing	2014/2008 Code Designations?
Occupancy Classification:	R-2 - RESIDENTIAL: APARTMENT HOUSES	☒ Yes ☐ No
Construction Classification:	I-B: 2 HOUR PROTECTED - NON-COMBUST	☒ Yes ☐ No
Multiple Dwelling Classification:	HAEA	
Building Height (ft.):	80	
Building Stories:	8	
Dwelling Units:	101	

Mixed use building? ☐ **Yes** ☒ **No**

14 Fill

☐ **Not Applicable** ☐ **Off-Site** ☐ **On-Site** ☐ **Under 300 cubic yards**

15 Construction Equipment

☐ **Chute** ☐ **Sidewalk Shed** **Construction Material:** STEEL/WOOD/FOAM
☐ **Fence** **Size:** linear ft. **BSA/MEA Approval No.:**
☐ **Supported Scaffold** ☒ **Other** ROOF PROTECTION

16 Curb Cut Description

Not Applicable

17 Tax Lot Characteristics

Not Provided

18 Fire Protection Equipment

Not Applicable

19 Open Spaces

20 Site Characteristics

Yes	No		Yes	No	
☐	☒	Tidal Wetlands	☐	☒	Freshwater Wetlands
☐	☒	Coastal Erosion Hazard Area	☐	☒	Urban Renewal
☒	☐	Fire District	☐	☒	Flood Hazard Area

Flood Hazard Area Information:

Yes	No	
☐	☐	Substantial improvement?
☐	☐	Substantially damaged?
☐	☐	Floodshields part of proposed work?

21 Demolition Details

Not Applicable

22 Asbestos Abatement Compliance

☒ **The scope of work is exempt from the asbestos requirement as defined in the regulations promulgated by the NYC DEP (15 RCNY 1-23(b)) or is an alteration to a building constructed pursuant to plans submitted for approval on or after April 1,1987, in accordance with §28-106.1.**

23 Signs

Not Applicable

24 Comments

25 Applicant's Statements and Signatures (See paper form or check Forms Received)

Yes	No	
☐	☐	For New Building and Alteration 1 applications filed under the 2008 or 2014 NYC Building Code only: does this building qualify for high-rise designation?
Y	☐	Directive 14 applications only: I certify that the construction documents submitted and all construction documents related to this application do not require a new or amended Certificate of Occupancy as there is no change in use, exits, or occupancy.

26 Owner's Information

Name: DOUGLAS PARTRICK

Relationship to Owner:

Business Name: HEATHERWOOD **Business Phone:** 631-775-2265

Business Address: 58 MOTOR PARKWAY COMMACK NY 11725 **Business Fax:**

E-Mail: CLINSALATO@HEATHERWOOD.COM **Owner Type:** PARTNERSHIP

Non Profit: ☐ Yes ☒ No

Yes	No	
☐	N	Owner's Certification Regarding Occupied Housing (Remain Occupied)
☐	N	Owner's Certification Regarding Occupied Housing (Rent Control / Stabilization)
☐	☐	Owner DHCR Notification
☐	N	Owner's Certification for Adult Establishment
Y	☐	Owner's Certification for Directive 14 (if applicable)

Metes and Bounds

To view metes and bounds, see the Plot Diagram (form PD-1). A scanned image may be available here.

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.