911 Atlantic Avenue
Phase II Subsurface Investigation Report

911 Atlantic Avenue

Brooklyn, New York

Block 2018, Lot 62

OER Project # 15EHN524K

E-Designation #E-183

CEQR #07DCP066K

Prepared for:

Athena Housing Associates, LLC
c/o The Hudson Companies
826 Broadway, 11th Floor
New York, NY 10003
khu@hudsoninc.com

Prepared by:

Tenen Environmental
121 West 27th Street, Suite 303
New York, NY 10001
mcarroll@tenen-env.com
(646) 606-2332

APRIL 2016

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CERTIFICATION

I, Mohamed Ahmed, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the 911 Atlantic Avenue Site, (NYC OER Site No. 15EH-N524K). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Mohamed Ahmed 5-25-16 Mohamed Ahmed

Qualified Environmental Professional Date Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Site is located at 911 Atlantic Avenue in the Clinton Hill neighborhood of Brooklyn and is identified as Block 2018, Lot 62 (formerly Lots 62, 63 and 64). Figure 1 shows the Site location. The Site is an irregularly-shaped parcel occupied by three buildings and is currently vacant. The westernmost part of the Site contains a three-story building with detached storage facilities. The center section contains a four-story building with a cellar and that was used as commercial space and residences. The eastern section contains a two-story commercial building that was occupied by a wire cutting company. The entire Site is approximately 12,714-square feet with approximately 100.5 feet of frontage along Atlantic Avenue and is approximately 100 feet to 138 feet deep. The Site is bounded by various mixed-use spaces. A map of the site boundary is shown on Figure 2.

Summary of Proposed Redevelopment Plan

The proposed project is entirely affordable housing and consists of a nine-story building with a cellar level. The cellar level will house the utilities rooms, staff lounge, bicycle storage room, fitness center and recreational area for residents. The building will encompass approximately two-thirds of the land area with an eight-foot set-back to the east and an open area to the rear (north) of the building. The bottom of bulk excavation will be approximately 14 feet below sidewalk grade (note that there is an approximately seven foot drop in grade from the southern to northern border). An elevator will be installed below this level along the western border.

Summary of Past Uses of Site and Areas of Concern

The earliest Sanborn map (1887) shows a two–story building with a carpentry shop and clothing manufacture on the western portion of the Site (formerly Lot 64) and residential buildings with stores on the remaining lots. Additional uses on the western portion included bookbinding (with a printing area shown in the eastern part of the Site in the 1915 map), unspecified manufacturing (1938 and 1950 maps), an electrical company (maps dated 1969 through 1988), and auto repair (maps dated 1989 through 2007, the date of the last available map). Maps dated 1938 through 2007 also show a small two-story building on the western portion of the Site with the ground floor marked "auto" and storage on the second floor. The center portion of the Site (formerly Lot 63) is shown with residential and unspecified commercial uses on all maps; however, the city directory includes a 1928 listing for an auto radiator works, as well as listings indicating sale and/or storage of auto parts between 1934 and 1992. The eastern portion of the Site (formerly Lot 62) was originally developed with dwellings and a first floor store, with first floor wagon storage shown in 1904 and 1915, and auto repair (fender works), depicted on maps dated 1950 through 2007. Auto repair operations on the eastern portion of the Site are further documented by the 1934-1997 city directory listings, and the 1944 C of O, which references auto repair, welding, and a paint spray booth at this location.

Summary of the Work Performed under the Remedial Investigation

Tenen performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 10 soil borings across the entire project Site, and collected 18 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 3 groundwater monitoring wells throughout the Site to establish groundwater flow and collected 1 groundwater samples for chemical analysis to evaluate groundwater quality;

4. Installed 6 soil vapor probes around Site perimeter and collected 6 samples for chemical analysis.

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Summary of Environmental Findings

1. Elevation of the property is approximately 82 feet.
2. Depth to groundwater is 68.58 feet at the Site.
3. Groundwater flow is assumed to be towards west beneath the Site.
4. Depth to bedrock is approximately 200 feet at the Site.
5. The stratigraphy of the site, from the surface down, consists of fill material that is typical of that encountered in New York City (asphalt, concrete chips, brick fragments, ash, cinders, coal fragments, silty sand), and extends to a depth of approximately two to five feet below grade (ft-bg). The native material consists of sand, silt and cobbles.
6. Soil/fill samples results were compared to New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objectives and Restricted Residential Use Soil Cleanup Objectives (SCOs) as presented in 6NYCRR Part 375-6.8 and CP51. Soil/fill samples showed trace concentrations of VOCs, but none above Unrestricted Use SCOs. Several SVOCs consisting of Polycyclic Aromatic Hydrocarbons (PAHs) were detected with benz(a)anthracene (max. of 13 mg/kg), benzo(a)pyrene (max. of 12 mg/kg), benzo(b)fluoranthene (max. of 14 mg/kg), benzo(k)fluoranthene (max. of 3.9 mg/kg), chrysene (max. of 14 mg/kg),dibenz(a,h)anthracene (max. of 1.6 mg/kg), and indeno(1,2,3-cd)pyrene (7.4 mg/kg), exceeding Restricted Residential Use SCOs within shallow soil samples. Two pesticides, 4,4-DDE (0.00575 mg/kg) and 4,4-DDT (0.0108 mg/kg) were detected in two shallow samples above the Unrestricted Use SCOs. One pesticide, Arclor 1260 was detected in one shallow sample (0.142 mg/kg) above the

Unrestricted Use SCO. Several metals including arsenic, (28 mg/kg), barium (640 mg/kg) cadmium (max. of 2.8 mg/kg), copper (max. of 170 mg/kg), lead (max. of 1200 mg/kg), mercury (max. of 9.6 mg/kg), nickel (39 mg/kg) and zinc (max. of 2,500 mg/kg) exceeded Unrestricted Use SCOs in shallow samples. Of these metals, arsenic, barium, lead, and mercury also exceeded Restricted Residential Use SCOs. Overall, the soil data results were consistent with data identified at sites with urban fill material in NYC.

7. Groundwater sample results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). Groundwater results showed no SVOCs, PCBs, or pesticides in the one sample. Trace concentrations of VOCs were detected but only 2-Butanone was detected above its GQS at 61 ug/L. Several metals were identified in groundwater, but only aluminum (5350 ug/L), iron (40,400 ug/L), manganese (15,750 ug/L), and nickel (312.2 ug/L) exceeded their respective GQS in dissolved samples.

8. Soil vapor samples collected during the RI were compared to the compounds listed in Table 3.1 Air Guideline Values Derived by the NYSDOH located in the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion dated October 2006. Soil vapor samples collected during the RI showed low levels of petroleum-related VOCs and chlorinated VOCs. The total concentration of petroleum-related VOCs (BTEX) ranged from 6.19 $\mu g/m^3$ to 23.74 $\mu g/m^3$. Tetrachloroethylene (PCE) was detected in two of the six samples with a maximum concentration of 4.91 $\mu g/m^3$. The chlorinated VOCs, 1,1,1-trichloroethane (TCA), carbon tetrachloride, and trichloroethylene (TCE) were not detected in any of the six samples.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Athena Housing Associates, LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 13,952 square foot site located at 911 Atlantic Avenue in the Clinton Hill section of Brooklyn, New York. Residential use is proposed for the property. The RI work was performed between September 2015 and October 2015. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 911 Atlantic Avenue in the Clinton Hill section in Brooklyn, New York and is identified as Block 2018 and Lot 62 (formerly Lots 62, 63 and 64) on the New York City Tax Map. Figure 1 shows the Site location. The Site is 12,714-square feet and is bounded by residential units to the north, Atlantic Avenue to the south, and mixed-use commercial and residential units to the east and west. Currently, the Site is vacant and contains three buildings. The westernmost part of the Site contains a three-story building with detached storage facilities. The center section contains a four-story building with a cellar and that was used as commercial space and residences. The eastern section contains a two-story commercial building that was occupied by a wire cutting company. A map of the site boundary is shown in Figure 2.

1.2 Proposed Redevelopment Plan

The proposed project is entirely affordable housing and consists of a nine-story building with a cellar level. The cellar level will house the utilities rooms, staff lounge, bicycle storage room, fitness center and recreational area for residents. The building will encompass approximately two-thirds of the land area with an eight-foot set-back to the

east and an open area to the rear (north) of the building. The bottom of bulk excavation will be approximately 14 feet below sidewalk grade (note that there is an approximately seven foot drop in grade from the southern to northern border). An elevator will be installed below this level along the western border.

1.3 Description of Surrounding Property

Figure 3 shows the surrounding land use. The north adjoining properties are residential, the east and west adjoining properties are mixed-use commercial and residential. The Site is bounded to the south by Atlantic Avenue. The majority of the surrounding properties are zoned as residential, with some commercial overlay along Atlantic Avenue.

Based on a review of OER's Searchable Property Environmental E-Database (SPEED), no hospitals or schools are present within 500 feet of the Site. One daycare facility, Ft. Greene Senior Council, Inc., is located on Fulton Street approximately 500 feet north of the Site; the daycare facility is presumed to be in the upgradient direction.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

The earliest Sanborn map (1887) shows a two–story building with a carpentry shop and clothing manufacture on the western portion of the Site (formerly Lot 64) and residential buildings with stores on the remaining lots. Additional uses on the western portion included bookbinding (with a printing area shown in the eastern part of the Site in the 1915 map), unspecified manufacturing (1938 and 1950 maps), an electrical company (maps dated 1969 through 1988), and auto repair (maps dated 1989 through 2007, the date of the last available map). Maps dated 1938 through 2007 also show a small two-story building on the western portion of the Site with the ground floor marked "auto" and storage on the second floor. The center portion of the Site (formerly Lot 63) is shown with residential and unspecified commercial uses on all maps; however, the city directory includes a 1928 listing for an auto radiator works, as well as listings indicating sale and/or storage of auto parts between 1934 and 1992. The eastern portion of the Site (formerly Lot 62) was originally developed with dwellings and a first floor store, with first floor wagon storage shown in 1904 and 1915, and auto repair (fender works), depicted on maps dated 1950 through 2007. Auto repair operations on the eastern portion of the Site are further documented by the 1934-1997 city directory listings, and the 1944 C of O, which references auto repair, welding, and a paint spray booth at this location.

2.2 Previous Investigations

A Phase I Environmental Site Assessment (Phase I ESA) and a Phase II due diligence investigation were completed by Tenen at the Site. All documents pertaining to these investigations are included in Appendix B. The following is a list of the documents, followed by summaries of each report:

- Phase I Environmental Site Assessment, dated March 2015, prepared by Tenen;
- Phase II Due Diligence Investigation, dated March 2015, prepared by Tenen; and
- Phase II Work Plan (Short Form), dated June 2015, prepared by Tenen.

The Phase I ESA identified the following Recognized Environmental Conditions (RECs):

- historic use of the Site for auto repair, printing, and manufacturing;
- historic uses of adjacent and surrounding properties which likely involved the use and disposal of hazardous materials including paints, solvents, metals and petroleum products; and,
- a historic, potentially existing, underground gasoline storage tank on the property directly west of the Site.

Tenen completed a Phase II due diligence investigation in order to investigate potential environmental impacts from historic on-site/off-site uses, and operations. The investigation identified the following:

- two 275-gallon capacity ASTs are present at the Site;
- no evidence of a major petroleum release was detected during the subsurface investigation;
- fill material containing ash and cinders was observed to a depth of approximately two feet below grade in the parking area;
- soil sampling indicated the presence of fill-related impacts, in particular elevated metals, above Restricted-Residential SCOs. Toxic Characteristic Leaching Procedure (TCLP) analysis indicated that metals concentrations in these samples were not hazardous;
- soil vapor samples were collected below the existing buildings, and,
- groundwater was not sampled.

The soil vapor and soil results are incorporated into the results discussed below. Tenen completed a Phase II Work Plan (Short Form) to develop a scope of work to characterize potential environmental impacts from historic on-site/off-site uses and operations. The Work Plan proposed sampling of the soil, soil vapor and groundwater and was designed to address both RECs and historic fill, and to provide general horizontal/vertical characterization across the site for development purposes. The work plan was approved by OER on June 21, 2015.

2.3 Site Inspection

A Site inspection was completed on December 23, 2014 by Kristen Meisner of Tenen Environmental.

The westernmost portion of the Site (911 Atlantic Avenue) contains a three-story building occupied by H. Schact Electrical Supply, and includes an office and storage located on the first floor, and storage on the second and third floors. A steam boiler was observed in the cellar. Two 275-gallon capacity fuel oil aboveground storage tanks (ASTs) were located in the cellar. A four-story building with cellar (915 Atlantic Avenue) is currently used as storage/commercial space on the first floor, with one residential unit located on each of the three aboveground floors. A two-story commercial building (917 Atlantic Avenue) currently contains machinery used for wire cutting.

2.4 Areas of Concern

The AOCs identified for this site include:

1. Two 275-gal capacity ASTs previously located at the Site.
2. Previous Site uses including auto repair, auto storage, paint spraying and welding.
3. Presence of historic fill material.

Phase 1 Report is presented in Appendix C.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Matthew Carroll, P.E.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements.

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

Tenen performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 10 soil borings across the entire project Site, and collected 18 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 3 groundwater monitoring wells throughout the Site to establish groundwater flow and collected 1 groundwater samples for chemical analysis to evaluate groundwater quality;
4. Installed 6 soil vapor probes around Site perimeter and collected 6 samples for chemical analysis.

4.1 Borings and Monitoring Wells

Drilling and Soil Logging

Ten soil borings (SS-1 through SS-8, SS-2A and SS-3A) were advanced at the Site to a depth ranging from 2 ft-bg to 13 ft-bg. Three soil samples (SB-1 through SB-3) were collected at the groundwater interface during the geotechnical well installation. Boring locations are shown on Figure 2. A table detailing the boring locations and sample designations is included below.

Soil Sample Borings, Sample Designations and Descriptions of Location

Boring Location	Sample Name	Description of Location
SS-1	SS-1(0-2)	Entrance to storage facility, parking lot
SS-2	SS-2(0-2)	Parking area; southeast, center
SS-3	SS-3(0-2)	Parking area; southwest, center
SB-1	SB-1	Driveway to parking area; south, center; geotechnical well GW-1
SB-2	SB-2	Driveway to parking area, north, center; geotechnical well GW-2
SB-3	SB-3(60-62)	Parking area, southwest, center; geotechnical well GW-3
SS-2A	SS-2A(6-8)	Parking area, southeast, center
SS-3A	SS-3A(6-8)	Parking area, southwest, center
SS-4	SS-4(0-2)	Parking area; north, center
	SS-4(6-8)	
SS-5	SS-5(0-2)	Center, basement level of 911 Atlantic Avenue
	SS-5(4-6)	

Boring Location	Sample Name	Description of Location
SS-6	SS-6(0-2)	Center, basement level of 917 Atlantic Avenue
	SS-6(4-5)	
SS-7	SS-7(0-2)	Driveway to parking area, north, center
	SS-7(9-11)	
SS-8	SS-8(0-2)	Driveway to parking area, south, center
	SS-8(11-13)	

A hand auger was used to collect five soil samples (SS-1 through SS-3, SS-5 and SS-6). A handheld Geoprobe® unit operated by Zebra was used to advance the remaining soil borings. Soil samples were obtained by using two-inch diameter by five-foot long steel macro core samplers that contained a dedicated acetate liner. Each sampler was driven through the subsurface soil to collect samples.

Soil samples were collected under six inches of concrete at the surface interval (0-2 feet) at three locations (SS-1 through SS-3). Two soil samples were collected from each of the remaining locations; one sample from the surface interval (0-2 feet) and one from the subsurface interval with the highest suspected contamination. If no field contamination (elevated PID readings, staining and/or odors) was observed in any two-foot interval, the second sample was collected from the first apparent interval of native material. Three soil samples (SB-1 through SB-3) were collected at the groundwater interface during the installation of the geotechnical wells. Sufficient sample volume was collected for each analysis, with additional sample volume collected for reanalysis, if necessary. Soil samples were collected in glass containers.

The soil was field screened using a PID. PID readings noted non-detect results for all soil borings. A PID reading at SS-4 of 3.4 parts per million (ppm) was noted within the interval of 1-2 ft-bg.

No grossly contaminated soil cuttings were encountered during this investigation; therefore, cuttings were not drummed. Following the completion of the soil sampling, boreholes were backfilled with clean cuttings/sand and sealed with a concrete patch.

Boring logs were prepared by an engineer and are attached in Appendix A. A map showing the location of soil borings and monitor wells is shown in Figure 2.

Groundwater Monitoring Well Construction

Three two-inch diameter wells (GW-1 through GW-3) were installed by Craig Geotechnical Drilling Co., Inc. during Site geotechnical investigations; due to drilling fluid encountered in wells GW-1 and GW-3, only well GW-2 was sampled as part of this Phase II subsurface investigation. Groundwater was encountered at a depth of 68.58 ft-bg in well GW-2. Details regarding groundwater sampling are provided below.

Well Location	Description of Location
GW-2	Driveway to parking area, north, center

A truck-mounted auger was used to install wells GW-1 through GW-3. No evidence of petroleum impacts was observed in the purged groundwater. Due to incomplete well development due to drilling fluid, Tenen was only able to successfully sample one well, GW-2. Field instrumentation was employed to measure water temperature, pH and

turbidity at the sampled well in order to stabilize parameters before sample collection. Sampling was completed using a low-flow bladder pump.

Monitor well locations are shown in Figure 2.

4.2 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Soil samples collected by Tenen were containerized in accordance with EPA analytical protocols. Each sample was labeled, sealed, and placed in a chilled cooler for shipment to the laboratory. A record of each sample, including notation of any odors, color, and sample matrix, was kept in the sampler's field log book. A chain of custody was maintained throughout the field sampling, transport of samples to the laboratory, and lab analysis. A field blank and trip blanks were collected by Tenen for quality assurance/quality control (QA/QC) purposes. The soil samples collected by Tenen were analyzed for Target Compound List (TCL) VOCs by EPA Method 8260, TCL semivolatile organic compounds (SVOCs) by EPA Method 8270, pesticides/polychlorinated biphenyls (PCBs) by EPA Methods 8081/8082 and Target Analyte List (TAL) metals by EPA Method 6010.

18 soil samples were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths,

is reported in Tables 2 through 5. Figure 2 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Groundwater Sampling

Chain of custody documents was completed before shipment. The groundwater sample was placed in ice and secured in a cooler during shipment to the laboratory and analyzed by Alpha for TCL VOCs by EPA Method 8260, TCL SVOCs by EPA Method 8270, pesticides/ PCBs by EPA Methods 8081/8082 and total and dissolved TAL metals by EPA Method 6010.

One (1) groundwater sample was collected for chemical analysis during this RI. Groundwater sample collection data is reported in Tables 6 through 9. Sampling logs with information on purging and sampling of groundwater monitor wells is included in Appendix B. Figure 2 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

6 soil vapor probes were installed and 6 soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 2. Soil vapor sample collection data is reported in Table 1.. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.*

Six soil vapor points were installed below the cellar concrete slabs within the three buildings fronting Atlantic Avenue. Two points were installed at the north and south ends of each building.

The soil vapor samples were collected from approximately six inches below the basement slab, which was found to be approximately four to five inches thick. A table detailing the locations and sample designations for each soil vapor point is included below.

Soil Vapor Sampling Points, Sample Designations and Locations

Sampling Point	Sample Designation	Description of Location
SV-1	911SV-1	South end, basement level of 911 Atlantic Avenue
SV-2	911SV-2	North end, basement level of 911 Atlantic Avenue
SV-3	915SV-3	North end, basement level of 915 Atlantic Avenue
SV-4	915SV-4	South end, basement level of 915 Atlantic Avenue
SV-5	917SV-5	South end, basement level of 917 Atlantic Avenue
SV-6	917SV-6	North end, basement level of 917 Atlantic Avenue

A handheld hammer drill operated by Tenen was used to install soil vapor sampling probes at locations SV-1 through SV-6. At each soil vapor sampling location, access to the subsurface soil was gained by hammering through the four- to five-inch basement slab. Subsequently, a ½ inch diameter, 6-inch long perforated soil vapor sampling probe was placed at the bottom of the boring. Soil vapor sampling probes were installed and placed at approximately 6 inches below the ground surface.

The soil vapor sampling probe was connected to ¼-inch diameter polyethylene tubing that was extended to grade. Fine #00 sand was placed in the annular space around the probe and tubing to grade. The borehole above the sampling probe to grade was sealed using an inert sealant (bentonite, wetted at the surface) to prevent ambient air mixing with the soil vapor. In accordance with the New York State Department of Health (NYSDOH) October 2006 Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (Soil Vapor Guidance) protocols, a tracer gas (helium) was used to

verify the integrity of the soil vapor probe and sampling tube seals. A plastic chamber was sealed above the borehole. The sampling tube was pushed through the top of the sealed chamber. The atmosphere inside the chamber was enriched with the tracer gas (helium). A portable helium monitor was attached to the sampling tube to measure a vapor sample from the probe for the presence of high concentrations (>10%) of the tracer gas.

Soil vapor was purged from the boring hole by attaching the surface end of the polyethylene tube to an air valve and then to a vacuum pump. The vacuum pump removed one to three volumes of air (volume of the sample probe and tube) prior to sample collection. The flow rate for both purging and sample collection did not exceed 0.2 liter per minute.

The soil vapor sample was first screened for organic vapors using a photoionization detector (PID). Pre-soil vapor sample PID readings yielded all non-detect readings [0.0 parts per million (ppm)]. Soil vapor samples were collected in 2.75-liter Summa canisters using two-hour regulators and analyzed for volatile organic compounds (VOCs) using EPA Method TO-15.

Field notes were maintained summarizing sample identification, date and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of the soil vapor extracted, vacuum of canisters before and after the samples were collected and chain of custody protocols.

Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Mohamed Ahmed.

Chemical Analytical Laboratory	Chemical analytical laboratory used in the RI is NYS ELAP certified and was Alpha Analytical.
Chemical Analytical Methods	Soil analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Groundwater analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Soil vapor analytical methods: • VOCs by TO-15 VOC parameters..

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 2 through 5, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix E.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Stratigraphy

The Site is mapped on the Brooklyn Quadrangle 7.5 Minute Topographic Map, published by the United States Geological Survey (USGS) (Figure 1). Review of the topographic map reveals that the Site is located at approximately 82 feet above the National Geodetic Vertical Datum of 1929 (an approximation of mean sea level) (USGS). The surface topography at the Site and surrounding area is relatively flat.

During environmental sampling, the subsurface lithology was determined to be fill underlain by native material. The fill material at the Site is typical of fill encountered in New York City (asphalt, concrete chips, brick fragments, ash, cinders, coal fragments, silty sand), and extends to a depth of approximately two to five feet below grade (ft-bg). The native material consists of sand, silt and cobbles. Lithologic logs are presented in Appendix A.

Hydrogeology

Groundwater was encountered at 68.58 ft-bg with an assumed westerly flow direction. The groundwater flow is consistent with that estimated in the 2009 United States Geologic Survey (USGS) publication, *Water-Table and Potentiometric-Surface Altitudes in Upper Glacial, Magothy and Lloyd Aquifers Beneath Long Island, New York, March-April 2006*. Groundwater is not used as a source of potable water in this area of Brooklyn. The nearest surface water body is the Gowanus Canal located roughly 6,800 feet to the west of the Site.

5.2 Soil Chemistry

Soil analytical results are summarized in Tables 2 through 5; laboratory qualifiers are summarized in Table 10. The laboratory analytical report is included in Appendix E. The maximum PID reading in soil was 3.4 ppm.

No VOCs were detected at concentrations above Unrestricted Use SCOs.

SVOCs typically related to historic fill were detected in three samples, SS-8(0-2), SS-4(0-2) and SS-6(0-2), at levels above the Restricted-Residential Use SCO. The SVOC compounds were all polyaromatic hydrocarbons (PAHs), including benzo(a)anthracene [max: 13 milligrams per kilogram (mg/kg)], benzo(a)pyrene (max: 12 mg/kg), benzo(b)fluoranthene (max: 14 mg/kg), chrysene (max: 14 mg/kg) and indeno(1,2,3-cd)pyrene (max 7.4 mg/kg). Dibenzo(a,h)anthracene was detected in two samples, SS-4(0-2) and SS-6(0-2) at a maximum concentration of 1.6 mg/kg. The SVOC benzo(k)fluoranthene (max: 3.9 mg/kg), was detected above the Unrestricted Use SCO in samples SS-8(0-2), SS-6(0-2) and SS-4(0-2). Chrysene was detected in sample SS-8(0-2) at a concentration of 2.6 mg/kg, above the Unrestricted Use SCO but below the Restricted-Residential SCO. All other samples contained concentrations of SVOCs below the Unrestricted Use SCOs. Each of the above samples has been vertically delineated to below the Unrestricted Use SCOs.

The following metals were identified above the Restricted-Residential Use SCOs: arsenic, barium, cadmium, lead and mercury. The highest concentrations were detected in sample SS-3(0-2), with the exception of the highest lead concentration, which was detected in sample SS-6(0-2). Arsenic was detected at a concentration of 28 milligrams per kilogram (mg/kg), above the Restricted-Residential Use SCO of 16 mg/kg. Barium was detected at a concentration of 640 mg/kg above the Restricted-Residential Use SCO of 350 mg/kg. Cadmium was detected at a concentration of 2.8 mg/kg above the Restricted-Residential Use SCO of 2.5 mg/kg. Lead was detected at a concentration of 1,200 mg/kg above the Restricted-Residential SCO of 400 mg/kg. TCLP analysis of metals was run on sample SS-6(0-2) and no concentrations were hazardous. Mercury was detected at a concentration of 9.6 mg/kg above the Restricted-Residential SCO of 0.81 mg/kg. Copper, nickel and zinc were detected above the Unrestricted Use SCOs, but below the Restricted-Residential Use SCOs.

Concentrations of the pesticide 4,4'-DDE was detected at a concentration above the Unrestricted Use SCOs, but below the Restricted-Residential SCOs in samples SS-3(0-2) and SS-4(0-2), within the shallow fill material. Concentrations of the pesticide 4,4'-DDT was detected at a concentration above the Unrestricted Use SCOs, but below the Restricted-Residential SCOs in sample SS-4(0-2), within the shallow fill material.

Concentrations of the polychlorinated biphenyl (PCB) Aroclor 1260 was detected at a concentration above the Unrestricted Use SCOs, but below Restricted-Residential SCOs in sample SS-3(0-2), within the shallow fill material.
Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site.

5.3 Groundwater Chemistry

Groundwater analytical results are summarized in Tables 6 through 9; laboratory qualifiers are summarized in Table 10. The laboratory analytical report is included in Appendix E.

No SVOCs, pesticides or PCBs were detected above the Class GA Standards in the groundwater sample.

Two VOCs, acetone and 2-butanone, were detected above the Class GA Standards. Acetone was detected at a concentration of 270 micrograms per liter (ug/l), above Class GA Standard of 50 ug/l, and is considered to be a laboratory artifact. 2-Butanone was detected at a concentration of 51 ug/l, above the Class GA Standard of 50 ug/l.

The following filtered (dissolved) metals were detected above the Class GA Standards: aluminum, iron, manganese and nickel. In addition, the following unfiltered (total) metals: aluminum, chromium, iron, magnesium, manganese and nickel. These compounds are likely related to soil particles in the groundwater sample. The detected compounds are common earth metals, and are likely unrelated to Site uses.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. Exceedence of applicable groundwater standards are shown.

5.4 Soil Vapor Chemistry

Soil vapor analytical results are included as Table 1 and the laboratory analytical report is included in Appendix E. Laboratory qualifiers are summarized in Table 10. Pre-sampling soil vapor readings yielded non-detect results.

Several compounds were detected in the soil vapor samples collected at the Site. No compounds were detected above the NYSDOH AGVs. Tetrachloroethene (PCE) was detected in to be the highest at 911SV-1 with a concentration of 4.88 micrograms per cubic meter (ug/m3), well below the NYSDOH AGV of 30 ug/m3. According to the NYSDOH matrix associated with PCE (Matrix 2), no monitoring or mitigation is required.

Acetone, a common laboratory artifact, was detected at all six locations. Three petroleum-related compounds were detected above the highest background concentrations: 1,3-butadiene (max 8.78 ug/m3 at 911SV-2); 1,2,4-trimethylbenzene (max 55.1 ug/m3 at 911SV-1); and 1,3,5-trimethylbenzene (max 3.7 ug/m3 at 911SV-2). These concentrations may be related to minor impacts from the nearby ASTs or boiler room.
Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site.

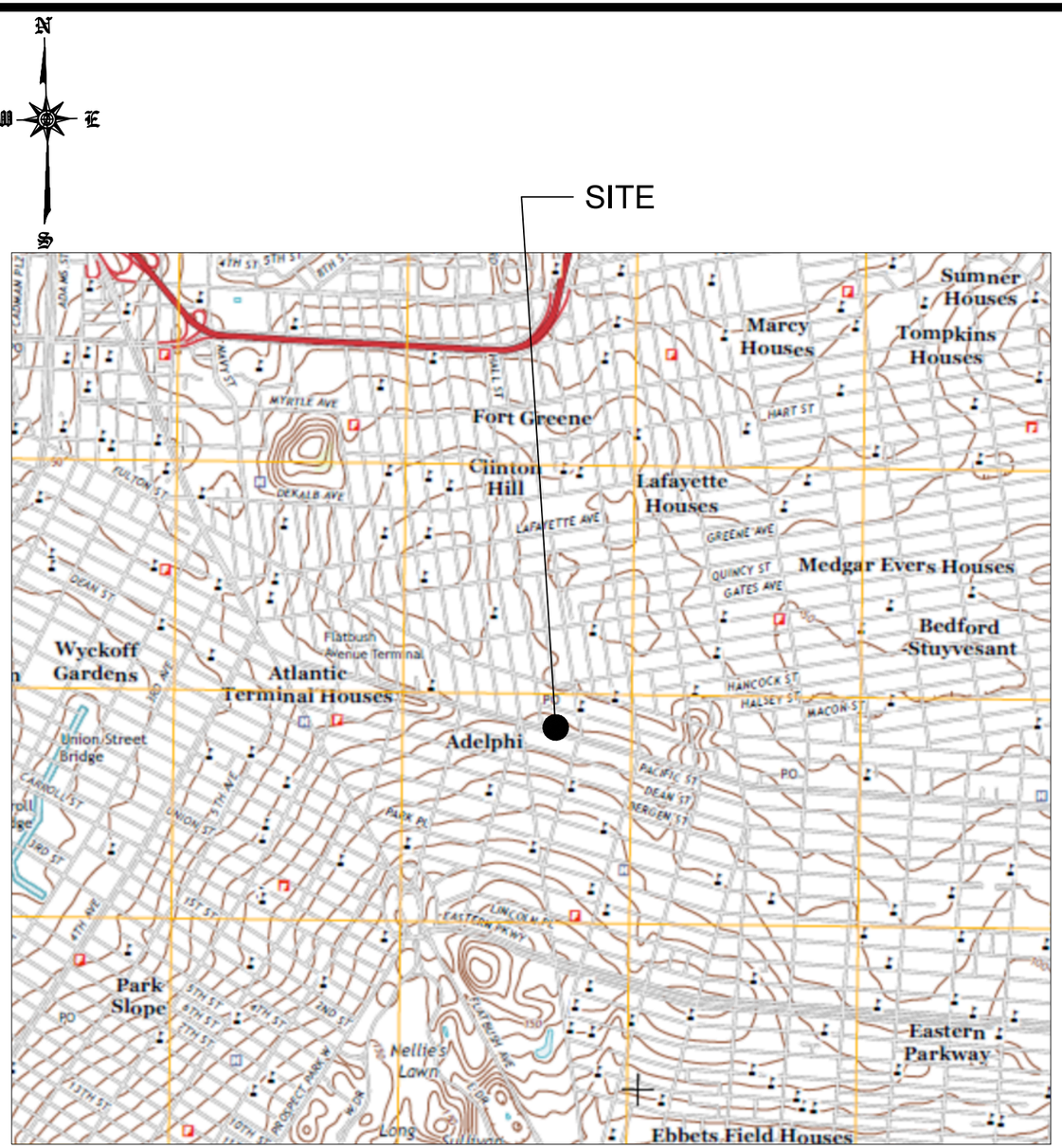
5.5 Prior Activity

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

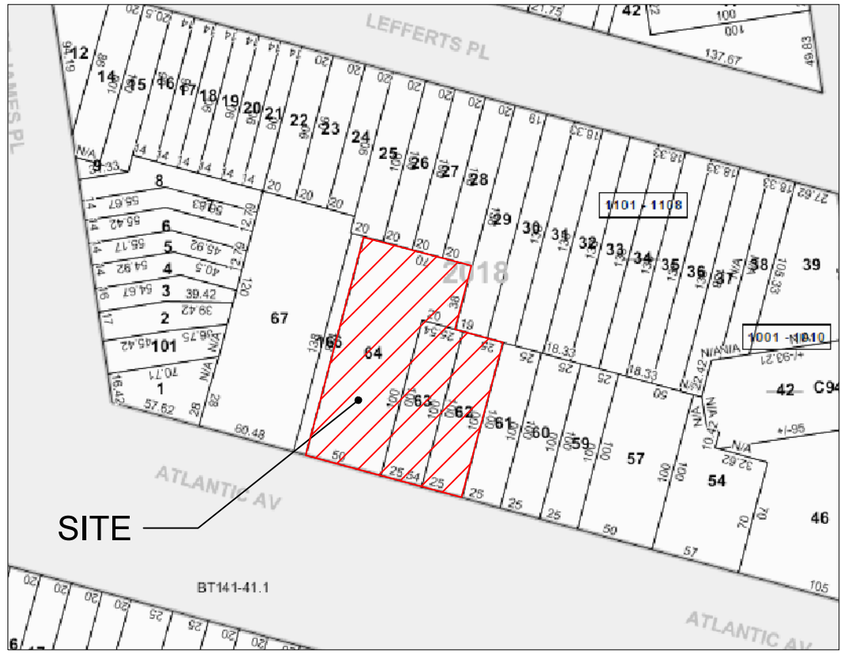
5.6 Impediments to Remedial Action

There are no known impediments to remedial action at this property.

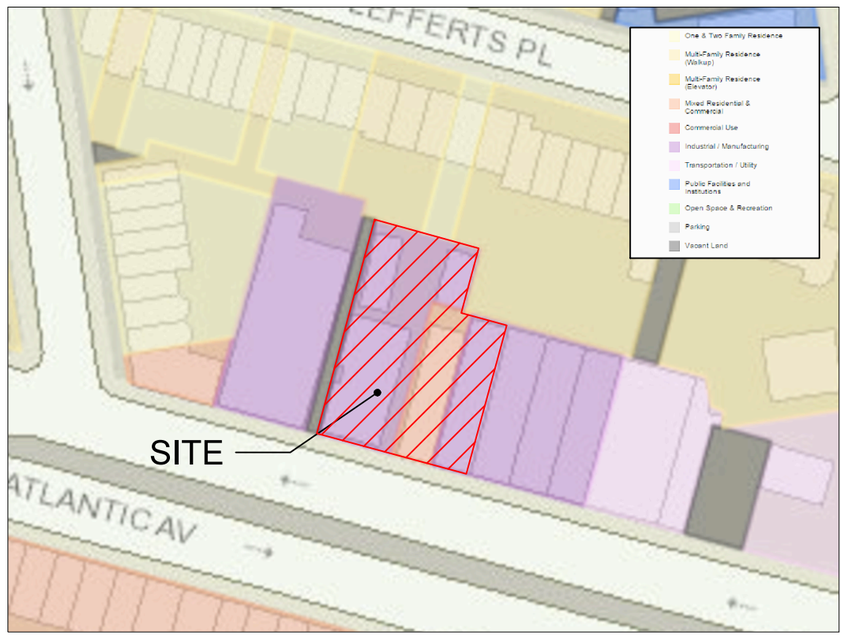
FIGURES



Re: USGS BROOKLYN - NY - NJ QUADRANGLE, 2013
http://www.usgs.gov



Re: DEPARTMENT OF FINANCE, DIGITAL TAX MAP, 2014
http://gis.nyc.gov/taxmap/map.htm



Re: DEPARTMENT OF CITY PLANNING ZOLA, 2014
http://gis.nyc.gov/doitt/nyscitymap/template?applicationsName=ZOLA

CLIENT
911-917 ATLANTIC AVE
BROOKLYN, NY
BLOCK 2018,
LOTS 62, 63 & 64

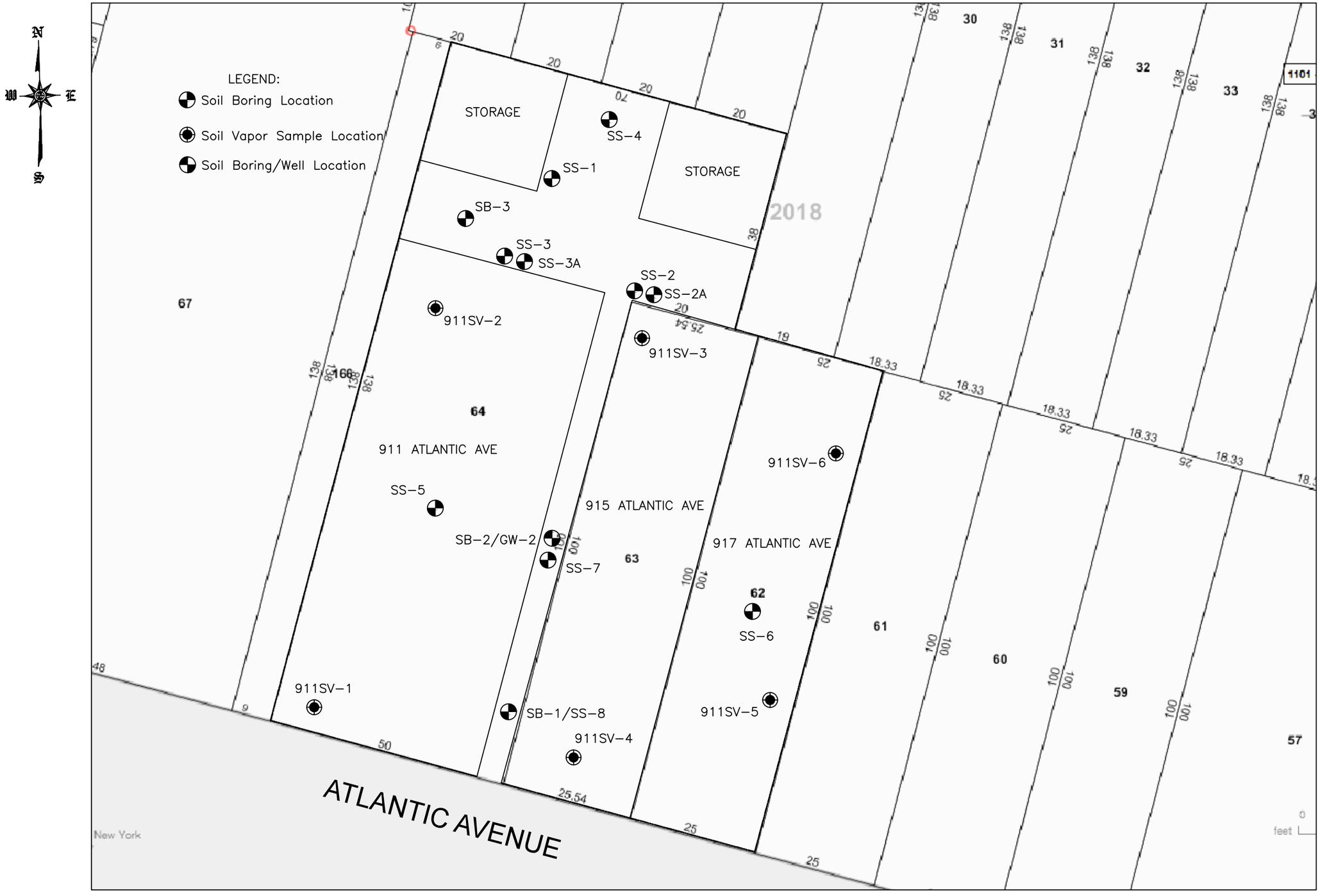
CONSULTANT
TENEN ENVIRONMENTAL

TENEN ENVIRONMENTAL, LLC
121 West 27th Street
Suite 1004
New York, NY 10001
O: 646-606-2332
F: 646-606-2379

DRAWN BY	CHECKED BY	DATE	SCALE
KM	MC	DECEMBER 2014	AS NOTED

DRAWING TITLE: FIGURE 1

DRAWING NO.: SITE LOCATION MAP



RE: DEPARTMENT OF FINANCE, DIGITAL TAX MAP, 2015
http://gis.nyc.gov/taxmap/map.htm

SCALE: 1" = 20'

CLIENT
911-917 ATLANTIC AVE
15EH-N524K
BROOKLYN, NY

CONSULTANT
TENEN ENVIRONMENTAL
TENEN ENVIRONMENTAL, LLC
121 West 27th Street
Suite 303
New York, NY 10001
O: 646-606-2332
F: 646-606-2379

DRAWN BY	CHECKED BY	DATE	SCALE:
KM	MC	DECEMBER 2015	AS NOTED

DRAWING TITLE: SAMPLE LOCATIONS

DRAWING NO.: FIGURE 2

Figure 3 - Surrounding Land Use

Primary Land Use

- One & Two Family Residence
- Multi-Family Residence (Walkup)
- Multi-Family Residence (Elevator)
- Mixed Residential & Commercial
- Commercial Use
- Industrial / Manufacturing
- Transportation / Utility


Public Facilities and Institutions
Open Space & Recreation
Parking
Vacant Land

BROOKLYN Block: 2018 Lot: 62

- Zoning

Zoning Information:

Borough: Brooklyn **Block:** 2018 **Lot:** 62

Zoning: R7A

Commercial Overlay: C2-4

Zoning Map: 16c

Historical Zoning Maps: 16c

Department of City Planning, Zoning Database (updated monthly)

BROOKLYN Block: 2018 Lot: 62

- Additional Zoning Information

This location is completely or partially within the following:

FRESH Program:

Discretionary tax incentives

FRESH Program

Inclusionary Housing Designated Area:

Inclusionary Housing Designated Area

TABLES

Table 1 - Volatile Organic Compounds (VOCs) in Soil
Vapor 911-917 Atlantic Avenue -- Brooklyn, NY

LOCATION	NYSDOH Matrix	NYSDOH Air Guidance Value	NYSDOH 2003 Fuel Oil Indoor Air Value	EPA 2001 Indoor Air Value	HEI 2005 Indoor Air Value	911 SV-1		911 SV-2		915 SV-3		915 SV-4		917 SV-5		917 SV-6	
SAMPLING DATE						1/9/2015		1/9/2015		1/9/2015		1/9/2015		1/9/2015		1/9/2015	
LAB SAMPLE ID						L1500504-01		L1500504-02		L1500504-03		L1500504-04		L1500504-05		L1500504-06	
Volatile Organic Compounds (VOCs)						Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Units: ug/m3																	
Dichlorodifluoromethane	--	--	10	16.5	--	1.74		2.58		1.84		4.52		8.21		2.75	
Chloromethane	--	--	4.2	1.1	--	0.413	U	0.653		0.681		0.413	U	0.413	U	0.611	
Freon-114	--	--	0.4	<6.8	--	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Vinyl chloride	1	--	0.4	<1.9	--	0.51	U	0.511	U	0.511	U	0.511	U	0.511	U	0.511	U
1,3-Butadiene	--	--	--	<3.0	--	1.61		8.78		0.442	U	0.442	U	0.529		0.442	U
Bromomethane	--	--	0.5	<1.7	--	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U
Chloroethane	--	--	0.4	<1.1	--	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U
Ethanol	--	--	34	210.0	--	65.8		73.5		47.7		96.3		68.8		138	
Vinyl bromide	--	--	--	--	--	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U
Acetone	--	--	115	98.9	45.8	87.4		75.8		53.7		77.9		82.2		127	
Trichlorofluoromethane	--	--	12	18.1	--	1.55		1.21		1.12	U	2.77		7.19		1.31	
Isopropanol	--	--	--	250	--	34.9		25.6		20.2		31.5		26.8		34.9	
1,1-Dichloroethene	2	--	0.4	<1.4	--	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
Tertiary butyl Alcohol	--	--	--	--	--	2.49		2.24		1.52	U	1.52	U	2.08		1.78	
Methylene chloride	--	60	16	10.0	7.5	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U
3-Chloropropene	--	--	--	--	--	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U
Carbon disulfide	--	--	--	4.2	--	1.37		2.69		0.707		1.88		1.12		0.623	U
Freon-113	--	--	2.5	1.6	--	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U
trans-1,2-Dichloroethene	--	--	--	--	--	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
1,1-Dichloroethane	--	--	0.4	<0.7	--	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U
Methyl tert butyl ether	--	--	14	11.5	36	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U
2-Butanone	--	--	16.0	12.0	--	5.07		3.07		2.51		4.81		3.57		5.25	
cis-1,2-Dichloroethene	2	--	0.4	<1.9	--	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
Ethyl Acetate	--	--	--	5.4	--	2.09		1.8	U	1.8	U	1.8	U	1.8	U	2.35	
Chloroform	--	--	1.2	1.1	6.34	4.18		0.977	U	0.977	U	0.977	U	0.977	U	0.977	U
Tetrahydrofuran	--	--	0.8	--	--	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U
1,2-Dichloroethane	--	--	0.4	<0.9	--	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U
n-Hexane	--	--	14	10.2	--	1.73		1.72		0.74		3.5		1.28		1.08	
1,1,1-Trichloroethane	2	--	0.6	20.6	--	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U
Benzene	--	--	13	9.4	10	1.43		0.91		0.716		0.722		1.25		1.41	
Carbon tetrachloride	1	--	1.3	<1.3	1.1	1.26	U	1.26	U	1.26	U	1.26	U	1.26	U	1.26	U
Cyclohexane	--	--	6.3	--	--	0.688	U	0.688	U	0.688	U	0.688	U	0.688	U	0.688	U
1,2-Dichloropropane	--	--	0.4	<1.6	--	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U
Bromodichloromethane	--	--	5	--	--	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U
1,4-Dioxane	--	--	--	--	--	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U
Trichloroethene	1	5	0.5	4.2	1.36	1.07	U	1.07	U	1.07	U	1.07	U	1.07	U	1.07	U
2,2,4-Trimethylpentane	--	--	5.0	--	--	0.934	U	0.934	U	0.934	U	0.934	U	0.934	U	0.934	U
Heptane	--	--	18	--	--	1.48		0.82	U	0.82	U	0.828		1		1.46	
cis-1,3-Dichloropropene	--	--	0.4	<2.3	--	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U
4-Methyl-2-pentanone	--	--	--	6.0	--	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U
trans-1,3-Dichloropropene	--	--	--	<1.3	--	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U
1,1,2-Trichloroethane	--	--	0.3	<1.5	--	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U
Toluene	--	--	5.1	43.0	39.8	4.45		3.31		2.24		1.99		3.88		2.93	
2-Hexanone	--	--	--	--	--	0.82	U	0.82	U	0.996		0.82	U	0.82	U	0.82	U
Dibromochloromethane	--	--	--	--	--	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
1,2-Dibromoethane	--	--	0.4	<1.5	--	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U
Tetrachloroethene	2	30	100	15.9	6.01	4.88		3.1		1.36	U	2.83		2.56		1.97	
Chlorobenzene	--	--	0.4	<0.9	--	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U
Ethylbenzene	--	--	6.4	5.7	7.62	2.49		0.869	U	0.869	U	0.869	U	0.869	U	0.869	U
p/m-Xylene	--	--	1.0	22.2	22.2	10.8		2.59		1.74	U	1.74	U	2.31		2.18	
Bromoform	--	--	--	--	--	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U
Styrene	--	--	1.4	1.9	5.13	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U
1,1,2,2-Tetrachloroethane	--	--	0.4	--	--	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U
o-Xylene	--	--	7.1	7.9	7.24	4.91		0.886		0.869	U	0.869	U	0.869	U	0.869	U
4-Ethyltoluene	--	--	--	3.6	--	24.7		0.983	U	0.983	U	0.983	U	0.983	U	0.983	U
1,3,5-Trimethylbenzene	--	--	3.9	3.7	--	21		0.983	U	0.983	U	0.983	U	0.983	U	0.983	U
1,2,4-Trimethylbenzene	--	--	1.9	9.5	--	55.1		0.983	U	0.983	U	0.983	U	0.983	U	0.983	U
Benzyl chloride	--	--	--	--	--	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U
1,3-Dichlorobenzene	--	--	0.5	<2.4	--	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
1,4-Dichlorobenzene	--	--	1.2	5.5	344	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
1,2-Dichlorobenzene	--	--	0.5	<1.2	--	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
1,2,4-Trichlorobenzene	--	--	0.5	<6.8	--	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U
Hexachlorobutadiene	--	--	0.5	<6.8	--	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U

NYSDOH AGV = New York State Department of Health Air Guidance Values
NYSDOH Matrix = number of the Soil Vapor/Indoor Air decision matrix from the NYSDOH Soil Vapor Guidance, October 2006
NYSDOH AGV and Matrix values from NYSDOH Soil Vapor Guidance, Octpber 2006, except for the revised NYSDOH AGV
for PCE from Fact Sheet: Tetrachloroethene (PERC) in Indoor & Outdoor Air, September 2013
NYSDOH 2003 Fuel Oil Indoor Air = New York State Department of Health indoor air guidance value, Upper Fence background level
EPA 2001 Indoor Air = Environmental Protection Agency indoor air guidance value, 90th percentile background level
HEI 2005 = Health Effects Institute air guidance value, 95th percentile background level
Cells highlighted in yellow and in bold indicate concentrations above the NYSDOH AGV
Cells highlighted in yellow indicate concentrations above the highest of the background levels
Cells shaded in gray indicate MDL values above the AGV or the highest of the background levels
RL = Reporting Limit
Qual = Laboratory Data Qualifier
For U qualified entries, the RL is shown
U = not detected at or above the RL
Results and RL values are in micrograms per cubic meter (ug/m3)
Matrix actions are described in the report narrative and the NYSDOH Soil Vapor Guidance, October 2006
-- = No Standard

Table 2 - Volatile Organic Compounds in Soil
911 Atlantic Avenue - Brooklyn, NY

SAMPLE ID:			SS1 (0-2)		SS2 (0-2)		SS3 (0-2)		SB-1		SB-2		SB-3 (60-62)	
LAB ID:			L1500485-01		L1500485-02		L1500485-03		L1524506-01		L1524831-01		L1524831-02	
COLLECTION DATE:	NY-UNRES	NY-RESRR	1/9/2015		1/9/2015		1/9/2015		9/29/2015		10/1/2015		10/2/2015	
Volatile Organic Compounds Units: mg/kg			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Methylene chloride	0.05	100	0.0014	U	0.0013	U	0.0022	U	0.0017	U	0.0012	U	0.0012	U
1,1-Dichloroethane	0.27	26	0.0001	U	0.0001	U	0.00017	U	0.00013	U	0.0001	U	0.0001	U
Chloroform	0.37	49	0.00045	U	0.00045	U	0.00073	U	0.00056	U	0.00041	U	0.00042	U
Carbon tetrachloride	0.76	2.4	0.00026	U	0.00025	U	0.00042	U	0.00032	U	0.00023	U	0.00024	U
1,2-Dichloropropane	--	--	0.00028	U	0.00028	U	0.00045	U	0.00034	U	0.00025	U	0.00026	U
Dibromochloromethane	--	--	0.00019	U	0.00018	U	0.0003	U	0.00023	U	0.00017	U	0.00017	U
1,1,2-Trichloroethane	--	--	0.00037	U	0.00037	U	0.0006	U	0.00046	U	0.00034	U	0.00034	U
Tetrachloroethene	1.3	19	0.00017	U	0.00017	U	0.00028	U	0.00021	U	0.00016	U	0.00016	U
Chlorobenzene	1.1	100	0.00043	U	0.00042	U	0.00069	U	0.00053	U	0.00038	U	0.0004	U
Trichlorofluoromethane	--	--	0.00048	U	0.00047	U	0.00077	U	0.00059	U	0.00043	U	0.00044	U
1,2-Dichloroethane	0.02	3.1	0.00014	U	0.00014	U	0.00022	U	0.00017	U	0.00012	U	0.00013	U
1,1,1-Trichloroethane	0.68	100	0.00014	U	0.00013	U	0.00022	U	0.00017	U	0.00012	U	0.00013	U
Bromodichloromethane	--	--	0.00021	U	0.00021	U	0.00034	U	0.00026	U	0.00019	U	0.0002	U
trans-1,3-Dichloropropene	--	--	0.00015	U	0.00015	U	0.00024	U	0.00018	U	0.00013	U	0.00014	U
cis-1,3-Dichloropropene	--	--	0.00014	U	0.00014	U	0.00023	U	0.00018	U	0.00013	U	0.00013	U
1,3-Dichloropropene, Total	--	--	0.00014	U	0.00014	U	0.00023	U	0.00018	U	0.00013	U	0.00013	U
1,1-Dichloropropene	--	--	0.00017	U	0.00017	U	0.00028	U	0.00021	U	0.00016	U	0.00016	U
Bromoform	--	--	0.00029	U	0.00028	U	0.00047	U	0.00036	U	0.00026	U	0.00027	U
1,1,2,2-Tetrachloroethane	--	--	0.00012	U	0.00012	U	0.0002	U	0.00015	U	0.00011	U	0.00011	U
Benzene	0.06	4.8	0.00014	U	0.00014	U	0.00023	U	0.00018	U	0.00013	U	0.00013	U
Toluene	0.7	100	0.00024	U	0.00024	U	0.00039	U	0.00029	U	0.00022	U	0.00022	U
Ethylbenzene	1	41	0.00016	U	0.00015	U	0.00025	U	0.00019	U	0.00014	U	0.00014	U
Chloromethane	--	--	0.00036	U	0.00036	U	0.00058	U	0.00044	U	0.00032	U	0.00033	U
Bromomethane	--	--	0.00041	U	0.00041	U	0.00067	U	0.00051	U	0.00037	U	0.00038	U
Vinyl chloride	0.02	0.9	0.00014	U	0.00014	U	0.00023	U	0.00018	U	0.00013	U	0.00013	U
Chloroethane	--	--	0.00039	U	0.00038	U	0.00063	U	0.00048	U	0.00035	U	0.00036	U
1,1-Dichloroethene	0.33	100	0.00032	U	0.00032	U	0.00052	U	0.0004	U	0.00029	U	0.0003	U
trans-1,2-Dichloroethene	0.19	100	0.00026	U	0.00026	U	0.00042	U	0.00032	U	0.00023	U	0.00024	U
Trichloroethene	0.47	21	0.00015	U	0.00015	U	0.00025	U	0.00019	U	0.00014	U	0.00014	U
1,2-Dichlorobenzene	1.1	100	0.00019	U	0.00018	U	0.0003	U	0.00023	U	0.00017	U	0.00017	U
1,3-Dichlorobenzene	2.4	49	0.00016	U	0.00016	U	0.00027	U	0.0002	U	0.00015	U	0.00015	U
1,4-Dichlorobenzene	1.8	13	0.00017	U	0.00017	U	0.00027	U	0.00021	U	0.00015	U	0.00016	U
Methyl tert butyl ether	0.93	100	0.0001	U	0.0001	U	0.00017	U	0.00013	U	0.00009	U	0.0001	U
p/m-Xylene	--	--	0.00024	U	0.00024	U	0.00039	U	0.0003	U	0.00022	U	0.00022	U
o-Xylene	--	--	0.00021	U	0.00021	U	0.00034	U	0.00026	U	0.00019	U	0.0002	U
Xylenes, Total	0.26	100	0.00021	U	0.00021	U	0.00034	U	0.00026	U	0.00019	U	0.0002	U
cis-1,2-Dichloroethene	0.25	100	0.00018	U	0.00017	U	0.00028	U	0.00022	U	0.00016	U	0.00016	U
1,2-Dichloroethene, Total	--	--	0.00018	U	0.00017	U	0.00028	U	0.00022	U	0.00016	U	0.00016	U
Dibromomethane	--	--	0.0002	U	0.0002	U	0.00032	U	0.00025	U	0.00018	U	0.00019	U
Styrene	--	--	0.00049	U	0.00049	U	0.0008	U	0.00061	U	0.00044	U	0.00046	U
Dichlorodifluoromethane	--	--	0.00023	U	0.00023	U	0.00038	U	0.00029	U	0.00021	U	0.00022	U
Acetone	0.05	100	0.015		0.022		0.0037	J	0.0016	U	0.0038	J	0.0046	J
Carbon disulfide	--	--	0.0014	U	0.0013	U	0.0022	U	0.0017	U	0.0012	U	0.0012	U
2-Butanone	0.12	100	0.0032	J	0.0034	J	0.00054	U	0.00041	U	0.0003	U	0.00031	U
Vinyl acetate	--	--	0.00016	U	0.00016	U	0.00026	U	0.0002	U	0.00015	U	0.00015	U
4-Methyl-2-pentanone	--	--	0.0003	U	0.0003	U	0.00048	U	0.00037	U	0.00027	U	0.00028	U
1,2,3-Trichloropropane	--	--	0.0002	U	0.0002	U	0.00032	U	0.00024	U	0.00018	U	0.00018	U
2-Hexanone	--	--	0.00082	U	0.00081	U	0.0013	U	0.001	U	0.00074	U	0.00076	U
Bromochloromethane	--	--	0.00034	U	0.00033	U	0.00055	U	0.00042	U	0.0003	U	0.00031	U
2,2-Dichloropropane	--	--	0.00028	U	0.00027	U	0.00045	U	0.00034	U	0.00025	U	0.00026	U
1,2-Dibromoethane	--	--	0.00021	U	0.00021	U	0.00035	U	0.00026	U	0.00019	U	0.0002	U
1,3-Dichloropropane	--	--	0.00018	U	0.00018	U	0.00029	U	0.00022	U	0.00016	U	0.00016	U
1,1,1,2-Tetrachloroethane	--	--	0.00039	U	0.00038	U	0.00063	U	0.00048	U	0.00035	U	0.00036	U
Bromobenzene	--	--	0.00026	U	0.00025	U	0.00041	U	0.00031	U	0.00023	U	0.00024	U
n-Butylbenzene	12	100	0.00014	U	0.00014	U	0.00023	U	0.00017	U	0.00013	U	0.00013	U
sec-Butylbenzene	11	100	0.00015	U	0.00015	U	0.00024	U	0.00018	U	0.00014	U	0.00014	U
tert-Butylbenzene	5.9	100	0.00017	U	0.00016	U	0.00027	U	0.0002	U	0.00015	U	0.00015	U
o-Chlorotoluene	--	--	0.0002	U	0.00019	U	0.00032	U	0.00024	U	0.00018	U	0.00018	U
p-Chlorotoluene	--	--	0.00016	U	0.00016	U	0.00026	U	0.0002	U	0.00015	U	0.00015	U
1,2-Dibromo-3-chloropropane	--	--	0.00048	U	0.00048	U	0.00078	U	0.0006	U	0.00044	U	0.00045	U
Hexachlorobutadiene	--	--	0.00028	U	0.00028	U	0.00045	U	0.00034	U	0.00025	U	0.00026	U
Isopropylbenzene	--	--	0.00013	U	0.00012	U	0.0002	U	0.00016	U	0.00011	U	0.00012	U
p-Isopropyltoluene	--	--	0.00015	U	0.00015	U	0.00025	U	0.00019	U	0.00014	U	0.00014	U
Naphthalene	12	100	0.00017	U	0.00017	U	0.00027	U	0.00021	U	0.00015	U	0.00016	U
Acrylonitrile	--	--	0.00063	U	0.00062	U	0.001	U	0.00078	U	0.00057	U	0.00058	U
n-Propylbenzene	3.9	100	0.00013	U	0.00013	U	0.00022	U	0.00016	U	0.00012	U	0.00012	U
1,2,3-Trichlorobenzene	--	--	0.00018	U	0.00018	U	0.00029	U	0.00022	U	0.00016	U	0.00017	U
1,2,4-Trichlorobenzene	--	--	0.00022	U	0.00022	U	0.00036	U	0.00028	U	0.0002	U	0.00021	U
1,3,5-Trimethylbenzene	8.4	52	0.00018	U	0.00017	U	0.00028	U	0.00022	U	0.00016	U	0.00016	U
1,2,4-Trimethylbenzene	3.6	52	0.00017	U	0.00017	U	0.00028	U	0.00021	U	0.00016	U	0.00016	U
1,4-Dioxane	0.1	13	0.018	U	0.017	U	0.029	U	0.022	U	0.016	U	0.016	U
p-Diethylbenzene	--	--	0.0002	U	0.00019	U	0.00032	U	0.00024	U	0.00018	U	0.00018	U
p-Ethyltoluene	--	--	0.00015	U	0.00015	U	0.00025	U	0.00019	U	0.00014	U	0.00014	U
1,2,4,5-Tetramethylbenzene	--	--	0.00016	U	0.00016	U	0.00026	U	0.0002	U	0.00014	U	0.00015	U
Ethyl ether	--	--	0.00032	U	0.00031	U	0.00052	U	0.00039	U	0.00029	U	0.0003	U
trans-1,4-Dichloro-2-butene	--	--	0.00048	U	0.00047	U	0.00078	U	0.00059	U	0.00043	U	0.00044	U
Total VOCs	--	--	--	--	--	--	--	--	--	--	0.0038	-	0.0046	-

Notes:
NY-RESR: Residential Criteria, New York Restricted use current as of 5/2007
NY-UNRES: New York Unrestricted use Criteria current as of 5/2007
NY-RESRR: New York Restricted-Residential Criteria, New York Restricted use current as of 5/2007
Cells highlighted in yellow indicate concentrations above the NY-UNRES
Cells highlighted in orange indicate concentrations above the NY-RESRR
Cells shaded in grey indicate MDL values above the NY-RESR or NY-UNRES
DUP = designation for duplicate sample
MDL = Maximum Detection Limit
RL = Reporting limit
NA - Not Analyzed
Qual = Laboratory Data Qualifier
For U qualified entries, the MDL is shown
U = not detected at or above the MDL
For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
P - The RPD between the results for the two columns exceeds the method-specified criteria
I - The lower value for the two columns has been reported due to obvious interference
-- = No standard
Results and MDL values are in milligrams per killogram

Table 2 - Volatile Organic Compounds in Soil
911 Atlantic Avenue - Brooklyn, NY

SAMPLE ID:			SS-8 (0-2)		SS-8 (11-13)		SS-7 (0-2)		SS-7 (9-11)		SS-3A (6-8)		SS-4 (0-2)	
LAB ID:			L1526897-01		L1526897-02		L1526897-03		L1526897-04		L1526897-05		L1526897-06	
COLLECTION DATE:	NY-UNRES	NY-RESRR	10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015	
Volatile Organic Compounds Units: mg/kg			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Methylene chloride	0.05	100	0.0012	U	0.0012	U	0.0012	U	0.0013	U	0.0013	U	0.0013	U
1,1-Dichloroethane	0.27	26	0.0001	U	0.00009	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U
Chloroform	0.37	49	0.00041	U	0.0004	U	0.00042	U	0.00043	U	0.00045	U	0.00044	U
Carbon tetrachloride	0.76	2.4	0.00023	U	0.00022	U	0.00024	U	0.00024	U	0.00025	U	0.00025	U
1,2-Dichloropropane	--	--	0.00025	U	0.00024	U	0.00026	U	0.00027	U	0.00028	U	0.00027	U
Dibromochloromethane	--	--	0.00017	U	0.00016	U	0.00017	U	0.00018	U	0.00018	U	0.00018	U
1,1,2-Trichloroethane	--	--	0.00034	U	0.00033	U	0.00034	U	0.00036	U	0.00037	U	0.00036	U
Tetrachloroethene	1.3	19	0.00016	U	0.00015	U	0.00016	U	0.00016	U	0.0004	J	0.0009	J
Chlorobenzene	1.1	100	0.00039	U	0.00037	U	0.00039	U	0.00041	U	0.00042	U	0.00042	U
Trichlorofluoromethane	--	--	0.00043	U	0.00042	U	0.00044	U	0.00045	U	0.00047	U	0.00046	U
1,2-Dichloroethane	0.02	3.1	0.00013	U	0.00012	U	0.00013	U	0.00013	U	0.00014	U	0.00014	U
1,1,1-Trichloroethane	0.68	100	0.00012	U	0.00012	U	0.00012	U	0.00013	U	0.00013	U	0.00013	U
Bromodichloromethane	--	--	0.00019	U	0.00018	U	0.00019	U	0.0002	U	0.00021	U	0.00021	U
trans-1,3-Dichloropropene	--	--	0.00013	U	0.00013	U	0.00014	U	0.00014	U	0.00015	U	0.00014	U
cis-1,3-Dichloropropene	--	--	0.00013	U	0.00013	U	0.00013	U	0.00014	U	0.00014	U	0.00014	U
1,3-Dichloropropene, Total	--	--	0.00013	U	0.00013	U	0.00013	U	0.00014	U	0.00014	U	0.00014	U
1,1-Dichloropropene	--	--	0.00016	U	0.00015	U	0.00016	U	0.00016	U	0.00017	U	0.00017	U
Bromoform	--	--	0.00026	U	0.00025	U	0.00026	U	0.00028	U	0.00028	U	0.00028	U
1,1,2,2-Tetrachloroethane	--	--	0.00011	U	0.00011	U	0.00011	U	0.00012	U	0.00012	U	0.00012	U
Benzene	0.06	4.8	0.00013	U	0.00013	U	0.00013	U	0.00014	U	0.00014	U	0.00014	U
Toluene	0.7	100	0.00022	U	0.00021	U	0.00022	U	0.00023	U	0.00024	U	0.00023	U
Ethylbenzene	1	41	0.00014	U	0.00014	U	0.00014	U	0.00015	U	0.00015	U	0.00024	J
Chloromethane	--	--	0.00033	U	0.00032	U	0.00033	U	0.00034	U	0.00036	U	0.00035	U
Bromomethane	--	--	0.00038	U	0.00036	U	0.00038	U	0.00039	U	0.00041	U	0.0004	U
Vinyl chloride	0.02	0.9	0.00013	U	0.00012	U	0.00013	U	0.00014	U	0.00014	U	0.00014	U
Chloroethane	--	--	0.00035	U	0.00034	U	0.00035	U	0.00037	U	0.00038	U	0.00038	U
1,1-Dichloroethene	0.33	100	0.00029	U	0.00028	U	0.00029	U	0.00031	U	0.00032	U	0.00031	U
trans-1,2-Dichloroethene	0.19	100	0.00024	U	0.00023	U	0.00024	U	0.00025	U	0.00026	U	0.00025	U
Trichloroethene	0.47	21	0.00014	U	0.00013	U	0.00014	U	0.00015	U	0.00015	U	0.00015	U
1,2-Dichlorobenzene	1.1	100	0.00017	U	0.00016	U	0.00017	U	0.00018	U	0.00018	U	0.00018	U
1,3-Dichlorobenzene	2.4	49	0.00015	U	0.00014	U	0.00015	U	0.00016	U	0.00016	U	0.00016	U
1,4-Dichlorobenzene	1.8	13	0.00015	U	0.00015	U	0.00016	U	0.00016	U	0.00017	U	0.00016	U
Methyl tert butyl ether	0.93	100	0.00009	U	0.00009	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U
p/m-Xylene	--	--	0.00029	J	0.00021	U	0.00022	U	0.00023	U	0.00028	J	0.0012	J
o-Xylene	--	--	0.00019	U	0.00018	U	0.00019	U	0.0002	U	0.00021	U	0.00069	J
Xylenes, Total	0.26	100	0.00029	J	0.00018	U	0.00019	U	0.0002	U	0.00028	J	0.0019	J
cis-1,2-Dichloroethene	0.25	100	0.00016	U	0.00015	U	0.00016	U	0.00017	U	0.00017	U	0.00017	U
1,2-Dichloroethene, Total	--	--	0.00016	U	0.00015	U	0.00016	U	0.00017	U	0.00017	U	0.00017	U
Dibromomethane	--	--	0.00018	U	0.00018	U	0.00018	U	0.00019	U	0.0002	U	0.0002	U
Styrene	--	--	0.00045	U	0.00043	U	0.00045	U	0.00047	U	0.00049	U	0.00048	U
Dichlorodifluoromethane	--	--	0.00021	U	0.0002	U	0.00021	U	0.00022	U	0.00023	U	0.00023	U
Acetone	0.05	100	0.0012	U	0.0051	J	0.0012	U	0.0012	U	0.0012	U	0.014	
Carbon disulfide	--	--	0.0012	U	0.0012	U	0.0012	U	0.0013	U	0.0013	U	0.0013	U
2-Butanone	0.12	100	0.0003	U	0.00029	U	0.0003	U	0.00032	U	0.00033	U	0.00032	U
Vinyl acetate	--	--	0.00015	U	0.00014	U	0.00015	U	0.00015	U	0.00016	U	0.00016	U
4-Methyl-2-pentanone	--	--	0.00027	U	0.00026	U	0.00027	U	0.00028	U	0.0003	U	0.00029	U
1,2,3-Trichloropropane	--	--	0.00018	U	0.00017	U	0.00018	U	0.00019	U	0.0002	U	0.00019	U
2-Hexanone	--	--	0.00074	U	0.00071	U	0.00075	U	0.00078	U	0.0008	U	0.00079	U
Bromochloromethane	--	--	0.00031	U	0.0003	U	0.00031	U	0.00032	U	0.00033	U	0.00033	U
2,2-Dichloropropane	--	--	0.00025	U	0.00024	U	0.00025	U	0.00026	U	0.00027	U	0.00027	U
1,2-Dibromoethane	--	--	0.00019	U	0.00019	U	0.0002	U	0.0002	U	0.00021	U	0.00021	U
1,3-Dichloropropane	--	--	0.00016	U	0.00016	U	0.00016	U	0.00017	U	0.00018	U	0.00017	U
1,1,1,2-Tetrachloroethane	--	--	0.00035	U	0.00034	U	0.00036	U	0.00037	U	0.00038	U	0.00038	U
Bromobenzene	--	--	0.00023	U	0.00022	U	0.00023	U	0.00024	U	0.00025	U	0.00025	U
n-Butylbenzene	12	100	0.00013	U	0.00012	U	0.00013	U	0.00013	U	0.00014	U	0.0005	J
sec-Butylbenzene	11	100	0.00014	U	0.00013	U	0.00014	U	0.00014	U	0.00015	U	0.00014	U
tert-Butylbenzene	5.9	100	0.00015	U	0.00014	U	0.00015	U	0.00016	U	0.00016	U	0.00016	U
o-Chlorotoluene	--	--	0.00018	U	0.00017	U	0.00018	U	0.00019	U	0.00019	U	0.00019	U
p-Chlorotoluene	--	--	0.00015	U	0.00014	U	0.00015	U	0.00016	U	0.00016	U	0.00016	U
1,2-Dibromo-3-chloropropane	--	--	0.00044	U	0.00042	U	0.00044	U	0.00046	U	0.00048	U	0.00047	U
Hexachlorobutadiene	--	--	0.00025	U	0.00024	U	0.00026	U	0.00027	U	0.00028	U	0.00027	U
Isopropylbenzene	--	--	0.00012	U	0.00011	U	0.00012	U	0.00012	U	0.00012	U	0.00012	U
p-Isopropyltoluene	--	--	0.00014	U	0.00013	U	0.00014	U	0.00015	U	0.00015	U	0.00025	J
Naphthalene	12	100	0.0003	J	0.0008	J	0.00016	U	0.00016	U	0.00017	U	0.0012	J
Acrylonitrile	--	--	0.00057	U	0.00055	U	0.00058	U	0.0006	U	0.00062	U	0.00061	U
n-Propylbenzene	3.9	100	0.00012	U	0.00012	U	0.00012	U	0.00013	U	0.00013	U	0.00041	J
1,2,3-Trichlorobenzene	--	--	0.00016	U	0.00016	U	0.00016	U	0.00017	U	0.00018	U	0.00018	U
1,2,4-Trichlorobenzene	--	--	0.0002	U	0.0002	U	0.0002	U	0.00021	U	0.00022	U	0.00022	U
1,3,5-Trimethylbenzene	8.4	52	0.00016	U	0.00015	U	0.00016	U	0.00017	U	0.00017	U	0.003	J
1,2,4-Trimethylbenzene	3.6	52	0.00016	U	0.00015	U	0.00016	U	0.00016	U	0.00017	U	0.0094	
1,4-Dioxane	0.1	13	0.016	U	0.015	U	0.016	U	0.017	U	0.017	U	0.017	U
p-Diethylbenzene	--	--	0.00018	U	0.00017	U	0.00018	U	0.00019	U	0.00019	U	0.0093	
p-Ethyltoluene	--	--	0.00014	U	0.00013	U	0.00014	U	0.00014	U	0.00015	U	0.0042	J
1,2,4,5-Tetramethylbenzene	--	--	0.00014	U	0.00014	U	0.00015	U	0.00015	U	0.00016	U	0.0032	J
Ethyl ether	--	--	0.00029	U	0.00028	U	0.00029	U	0.0003	U	0.00031	U	0.00031	U
trans-1,4-Dichloro-2-butene	--	--	0.00044	U	0.00042	U	0.00044	U	0.00046	U	0.00047	U	0.00047	U
Total VOCs	--	--	0.00088	-	0.0059	-	-	-	-	-	0.00096	-	0.05039	-

Notes:
NY-RESR: Residential Criteria, New York Restricted use current as of 5/2007
NY-UNRES: New York Unrestricted use Criteria current as of 5/2007
NY-RESRR: New York Restricted-Residential Criteria, New York Restricted use current as of 5/2007
Cells highlighted in yellow indicate concentrations above the NY-UNRES
Cells highlighted in orange indicate concentrations above the NY-RESRR
Cells shaded in grey indicate MDL values above the NY-RESR or NY-UNRES
DUP = designation for duplicate sample
MDL = Maximum Detection Limit
RL = Reporting limit
NA - Not Analyzed
Qual = Laboratory Data Qualifier
For U qualified entries, the MDL is shown
U = not detected at or above the MDL
For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
P - The RPD between the results for the two columns exceeds the method-specified criteria
I - The lower value for the two columns has been reported due to obvious interference
-- = No standard
Results and MDL values are in milligrams per killogram

Table 2 - Volatile Organic Compounds in Soil
911 Atlantic Avenue - Brooklyn, NY

SAMPLE ID:			SS-4 (6-8)		SS-2A (6-8)		SS-5 (0-2)		SS-5 (4-6)		SS-6 (0-2)		SS-6 (4-5)	
LAB ID:			L1526897-07		L1526897-09		L1526897-10		L1526897-12		L1526897-13		L1526897-15	
COLLECTION DATE:	NY-UNRES	NY-RESRR	10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015	
Volatile Organic Compounds Units: mg/kg			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Methylene chloride	0.05	100	0.0012	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
1,1-Dichloroethane	0.27	26	0.0001	U	0.0001	U	0.00009	U	0.00009	U	0.0001	U	0.00009	U
Chloroform	0.37	49	0.00042	U	0.00044	U	0.0004	U	0.0004	U	0.00041	U	0.0004	U
Carbon tetrachloride	0.76	2.4	0.00024	U	0.00025	U	0.00023	U	0.00023	U	0.00024	U	0.00022	U
1,2-Dichloropropane	--	--	0.00026	U	0.00027	U	0.00025	U	0.00025	U	0.00026	U	0.00024	U
Dibromochloromethane	--	--	0.00017	U	0.00018	U	0.00017	U	0.00017	U	0.00017	U	0.00016	U
1,1,2-Trichloroethane	--	--	0.00034	U	0.00036	U	0.00033	U	0.00033	U	0.00034	U	0.00033	U
Tetrachloroethene	1.3	19	0.00016	U	0.00017	U	0.00015	U	0.00015	U	0.0006	J	0.00015	U
Chlorobenzene	1.1	100	0.00039	U	0.00042	U	0.00038	U	0.00038	U	0.00039	U	0.00037	U
Trichlorofluoromethane	--	--	0.00044	U	0.00046	U	0.00042	U	0.00042	U	0.00043	U	0.00042	U
1,2-Dichloroethane	0.02	3.1	0.00013	U	0.00014	U	0.00012	U	0.00012	U	0.00013	U	0.00012	U
1,1,1-Trichloroethane	0.68	100	0.00012	U	0.00013	U	0.00012	U	0.00012	U	0.00012	U	0.00012	U
Bromodichloromethane	--	--	0.0002	U	0.00021	U	0.00019	U	0.00019	U	0.00019	U	0.00019	U
trans-1,3-Dichloropropene	--	--	0.00014	U	0.00014	U	0.00013	U	0.00013	U	0.00014	U	0.00013	U
cis-1,3-Dichloropropene	--	--	0.00013	U	0.00014	U	0.00013	U	0.00013	U	0.00013	U	0.00013	U
1,3-Dichloropropene, Total	--	--	0.00013	U	0.00014	U	0.00013	U	0.00013	U	0.00013	U	0.00013	U
1,1-Dichloropropene	--	--	0.00016	U	0.00017	U	0.00015	U	0.00015	U	0.00016	U	0.00015	U
Bromoform	--	--	0.00027	U	0.00028	U	0.00026	U	0.00026	U	0.00026	U	0.00025	U
1,1,2,2-Tetrachloroethane	--	--	0.00011	U	0.00012	U	0.00011	U	0.00011	U	0.00011	U	0.00011	U
Benzene	0.06	4.8	0.00013	U	0.00014	U	0.00013	U	0.00013	U	0.00013	U	0.00013	U
Toluene	0.7	100	0.00022	U	0.00023	U	0.00021	U	0.00021	U	0.00022	U	0.00021	U
Ethylbenzene	1	41	0.00014	U	0.00015	U	0.00014	U	0.00014	U	0.00014	U	0.00014	U
Chloromethane	--	--	0.00033	U	0.00035	U	0.00032	U	0.00032	U	0.00033	U	0.00032	U
Bromomethane	--	--	0.00038	U	0.0004	U	0.00037	U	0.00036	U	0.00038	U	0.00036	U
Vinyl chloride	0.02	0.9	0.00013	U	0.00014	U	0.00013	U	0.00013	U	0.00013	U	0.00013	U
Chloroethane	--	--	0.00036	U	0.00038	U	0.00035	U	0.00034	U	0.00035	U	0.00034	U
1,1-Dichloroethene	0.33	100	0.0003	U	0.00031	U	0.00029	U	0.00028	U	0.00029	U	0.00028	U
trans-1,2-Dichloroethene	0.19	100	0.00024	U	0.00025	U	0.00023	U	0.00023	U	0.00024	U	0.00023	U
Trichloroethene	0.47	21	0.00014	U	0.00015	U	0.00014	U	0.00014	U	0.00014	U	0.00013	U
1,2-Dichlorobenzene	1.1	100	0.00017	U	0.00018	U	0.00017	U	0.00016	U	0.00017	U	0.00016	U
1,3-Dichlorobenzene	2.4	49	0.00015	U	0.00016	U	0.00015	U	0.00015	U	0.00015	U	0.00014	U
1,4-Dichlorobenzene	1.8	13	0.00016	U	0.00016	U	0.00015	U	0.00015	U	0.00016	U	0.00015	U
Methyl tert butyl ether	0.93	100	0.0001	U	0.0001	U	0.00009	U	0.00009	U	0.0001	U	0.00009	U
p/m-Xylene	--	--	0.00022	U	0.00024	U	0.00022	U	0.0003	J	0.00029	J	0.00021	U
o-Xylene	--	--	0.00019	U	0.0002	U	0.00019	U	0.00018	U	0.00019	U	0.00018	U
Xylenes, Total	0.26	100	0.00019	U	0.0002	U	0.00019	U	0.0003	J	0.00029	J	0.00018	U
cis-1,2-Dichloroethene	0.25	100	0.00016	U	0.00017	U	0.00016	U	0.00015	U	0.00016	U	0.00015	U
1,2-Dichloroethene, Total	--	--	0.00016	U	0.00017	U	0.00016	U	0.00015	U	0.00016	U	0.00015	U
Dibromomethane	--	--	0.00018	U	0.0002	U	0.00018	U	0.00018	U	0.00018	U	0.00018	U
Styrene	--	--	0.00045	U	0.00048	U	0.00044	U	0.00044	U	0.00045	U	0.00043	U
Dichlorodifluoromethane	--	--	0.00022	U	0.00023	U	0.00021	U	0.00021	U	0.00021	U	0.0002	U
Acetone	0.05	100	0.0026	J	0.0012	U	0.0033	J	0.0025	J	0.0088	J	0.0011	U
Carbon disulfide	--	--	0.0012	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
2-Butanone	0.12	100	0.00031	U	0.00033	U	0.0003	U	0.00029	U	0.0003	U	0.00029	U
Vinyl acetate	--	--	0.00015	U	0.00016	U	0.00014	U	0.00014	U	0.00015	U	0.00014	U
4-Methyl-2-pentanone	--	--	0.00028	U	0.00029	U	0.00027	U	0.00026	U	0.00027	U	0.00026	U
1,2,3-Trichloropropane	--	--	0.00018	U	0.00019	U	0.00018	U	0.00018	U	0.00018	U	0.00017	U
2-Hexanone	--	--	0.00075	U	0.0008	U	0.00073	U	0.00072	U	0.00075	U	0.00072	U
Bromochloromethane	--	--	0.00031	U	0.00033	U	0.0003	U	0.0003	U	0.00031	U	0.0003	U
2,2-Dichloropropane	--	--	0.00026	U	0.00027	U	0.00025	U	0.00024	U	0.00025	U	0.00024	U
1,2-Dibromoethane	--	--	0.0002	U	0.00021	U	0.00019	U	0.00019	U	0.0002	U	0.00019	U
1,3-Dichloropropane	--	--	0.00016	U	0.00017	U	0.00016	U	0.00016	U	0.00016	U	0.00016	U
1,1,1,2-Tetrachloroethane	--	--	0.00036	U	0.00038	U	0.00035	U	0.00034	U	0.00036	U	0.00034	U
Bromobenzene	--	--	0.00024	U	0.00025	U	0.00023	U	0.00022	U	0.00023	U	0.00022	U
n-Butylbenzene	12	100	0.00031	J	0.00014	U	0.00012	U	0.00012	U	0.00013	U	0.00012	U
sec-Butylbenzene	11	100	0.00014	U	0.00015	U	0.00013	U	0.00013	U	0.00014	U	0.00013	U
tert-Butylbenzene	5.9	100	0.00015	U	0.00016	U	0.00015	U	0.00015	U	0.00015	U	0.00014	U
o-Chlorotoluene	--	--	0.00018	U	0.00019	U	0.00018	U	0.00017	U	0.00018	U	0.00017	U
p-Chlorotoluene	--	--	0.00015	U	0.00016	U	0.00014	U	0.00014	U	0.00015	U	0.00014	U
1,2-Dibromo-3-chloropropane	--	--	0.00045	U	0.00047	U	0.00043	U	0.00043	U	0.00044	U	0.00042	U
Hexachlorobutadiene	--	--	0.00026	U	0.00027	U	0.00025	U	0.00025	U	0.00026	U	0.00024	U
Isopropylbenzene	--	--	0.00012	U	0.00012	U	0.00011	U	0.00011	U	0.00012	U	0.00011	U
p-Isopropyltoluene	--	--	0.00025	J	0.00015	U	0.00014	U	0.00014	U	0.00014	U	0.00013	U
Naphthalene	12	100	0.0031	J	0.00016	U	0.00015	U	0.0012	J	0.0017	J	0.00015	U
Acrylonitrile	--	--	0.00058	U	0.00062	U	0.00056	U	0.00056	U	0.00058	U	0.00055	U
n-Propylbenzene	3.9	100	0.00012	U	0.00013	U	0.00012	U	0.00012	U	0.00012	U	0.00012	U
1,2,3-Trichlorobenzene	--	--	0.00017	U	0.00018	U	0.00016	U	0.00016	U	0.00016	U	0.00016	U
1,2,4-Trichlorobenzene	--	--	0.0002	U	0.00022	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U
1,3,5-Trimethylbenzene	8.4	52	0.00082	J	0.00017	U	0.00016	U	0.00016	U	0.00016	U	0.00015	U
1,2,4-Trimethylbenzene	3.6	52	0.0035	J	0.00017	U	0.00015	U	0.00015	U	0.00016	U	0.00015	U
1,4-Dioxane	0.1	13	0.016	U	0.017	U	0.016	U	0.016	U	0.016	U	0.015	U
p-Diethylbenzene	--	--	0.0056		0.00019	U	0.00018	U	0.00017	U	0.00018	U	0.00017	U
p-Ethyltoluene	--	--	0.0014	J	0.00015	U	0.00014	U	0.00013	U	0.00014	U	0.00013	U
1,2,4,5-Tetramethylbenzene	--	--	0.0033	J	0.00016	U	0.00014	U	0.00014	U	0.00014	U	0.00014	U
Ethyl ether	--	--	0.00029	U	0.00031	U	0.00028	U	0.00028	U	0.00029	U	0.00028	U
trans-1,4-Dichloro-2-butene	--	--	0.00044	U	0.00047	U	0.00043	U	0.00042	U	0.00044	U	0.00042	U
Total VOCs	--	--	0.02088	-	-	-	0.0033	-	0.0043	-	0.01168	-	-	-

Notes:
NY-RESR: Residential Criteria, New York Restricted use current as of 5/2007
NY-UNRES: New York Unrestricted use Criteria current as of 5/2007
NY-RESRR: New York Restricted-Residential Criteria, New York Restricted use current as of 5/2007
Cells highlighted in yellow indicate concentrations above the NY-UNRES
Cells highlighted in orange indicate concentrations above the NY-RESRR
Cells shaded in grey indicate MDL values above the NY-RESR or NY-UNRES
DUP = designation for duplicate sample
MDL = Maximum Detection Limit
RL = Reporting limit
NA - Not Analyzed
Qual = Laboratory Data Qualifier
For U qualified entries, the MDL is shown
U = not detected at or above the MDL
For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
P - The RPD between the results for the two columns exceeds the method-specified criteria
I - The lower value for the two columns has been reported due to obvious interference
-- = No standard
Results and MDL values are in milligrams per killogram

Table 3 - Semivolatile Organic Compounds in Soil
911 Atlantic Avenue - Brooklyn, NY

SAMPLE ID:			SS1 (0-2)		SS2 (0-2)		SS3 (0-2)		SB-1		SB-2		SB-3 (60-62)	
LAB ID:			1/9/2015		1/9/2015		1/9/2015		L1524506-01		L1524831-01		L1524831-02	
COLLECTION DATE:	NY-UNRES	NY-RESRR	L1500485-01		L1500485-02		L1500485-03		9/29/2015		10/1/2015		10/2/2015	
Semivolatile Organic Compounds Units: mg/kg			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Acenaphthene	20	100	0.041	U	0.041	U	0.066	U	0.052	U	0.037	U	0.038	U
1,2,4-Trichlorobenzene	--	--	0.066	U	0.44		0.1	U	0.082	U	0.059	U	0.061	U
Hexachlorobenzene	0.33	1.2	0.037	U	0.037	U	0.06	U	0.047	U	0.034	U	0.035	U
Bis(2-chloroethyl)ether	--	--	0.056	U	0.056	U	0.09	U	0.07	U	0.051	U	0.052	U
2-Chloronaphthalene	--	--	0.065	U	0.15	J	0.1	U	0.082	U	0.059	U	0.061	U
1,2-Dichlorobenzene	1.1	100	0.066	U	0.45		0.1	U	0.082	U	0.059	U	0.061	U
1,3-Dichlorobenzene	2.4	49	0.063	U	0.5		0.1	U	0.079	U	0.057	U	0.058	U
1,4-Dichlorobenzene	1.8	13	0.061	U	0.29		0.098	U	0.076	U	0.055	U	0.056	U
3,3'-Dichlorobenzidine	--	--	0.053	U	0.053	U	0.086	U	0.067	U	0.048	U	0.049	U
2,4-Dinitrotoluene	--	--	0.043	U	0.043	U	0.069	U	0.054	U	0.039	U	0.04	U
2,6-Dinitrotoluene	--	--	0.051	U	0.051	U	0.082	U	0.064	U	0.046	U	0.048	U
Fluoranthene	100	100	0.43		0.24		0.85		0.046	U	0.033	U	0.034	U
4-Chlorophenyl phenyl ether	--	--	0.061	U	0.06	U	0.098	0.32	0.076	U	0.055	U	0.056	U
4-Bromophenyl phenyl ether	--	--	0.046	U	0.046	U	0.074	0.32	0.058	U	0.042	U	0.043	U
Bis(2-chloroisopropyl)ether	--	--	0.071	U	0.07	U	0.11	0.39	0.088	U	0.064	U	0.065	U
Bis(2-chloroethoxy)methane	--	--	0.061	U	0.06	U	0.097	0.35	0.076	U	0.055	U	0.056	U
Hexachlorobutadiene	--	--	0.057	U	0.056	U	0.091	0.32	0.071	U	0.051	U	0.052	U
Hexachlorocyclopentadiene	--	--	0.13	U	0.13	U	0.21	0.92	0.16	U	0.12	U	0.12	U
Hexachloroethane	--	--	0.036	U	0.036	U	0.058	0.26	0.046	U	0.033	U	0.034	U
Isophorone	--	--	0.053	U	0.053	U	0.086	0.29	0.067	U	0.048	U	0.049	U
Naphthalene	12	100	0.067	U	0.22		0.11	0.32	0.084	U	0.06	U	0.062	U
Nitrobenzene	--	15	0.048	U	0.047	U	0.077	0.29	0.06	U	0.043	U	0.044	U
NitrosoDiPhenylAmine(NDPA)/DPA	--	--	0.042	U	0.042	U	0.068	0.26	0.053	U	0.038	U	0.039	U
n-Nitrosodi-n-propylamine	--	--	0.06	U	0.059	U	0.096	0.32	0.075	U	0.054	U	0.055	U
Bis(2-Ethylhexyl)phthalate	--	--	0.18	J	0.052	U	0.78		0.066	U	0.047	U	0.049	U
Butyl benzyl phthalate	--	--	0.039	U	0.039	U	0.16J	J	0.049	U	0.035	U	0.036	U
Di-n-butylphthalate	--	--	0.071	J	0.038	U	0.099J	J	0.048	U	0.035	U	0.036	U
Di-n-octylphthalate	--	--	0.049	U	0.049	U	0.079	U	0.062	U	0.044	U	0.046	U
Diethyl phthalate	--	--	0.042	U	0.042	U	0.068	U	0.053	U	0.038	U	0.039	U
Dimethyl phthalate	--	--	0.051	U	0.05	U	0.082	U	0.064	U	0.046	U	0.047	U
Benzo(a)anthracene	1	1	0.25		0.1	J	0.38		0.049	U	0.035	U	0.036	U
Benzo(a)pyrene	1	1	0.26		0.085	J	0.37		0.062	U	0.044	U	0.045	U
Benzo(b)fluoranthene	1	1	0.34		0.13		0.51		0.051	U	0.036	U	0.038	U
Benzo(k)fluoranthene	0.8	3.9	0.12		0.038	U	0.2		0.048	U	0.034	U	0.035	U
Chrysene	1	3.9	0.25		0.11	J	0.42		0.049	U	0.036	U	0.036	U
Acenaphthylene	100	100	0.038	U	0.099	J	0.06	U	0.047	U	0.034	U	0.035	U
Anthracene	100	100	0.06	J	0.046	J	0.1J		0.042	U	0.03	U	0.031	U
Benzo(ghi)perylene	100	100	0.19		0.063	J	0.26		0.052	U	0.038	U	0.039	U
Fluorene	30	100	0.058	U	0.057	U	0.092	U	0.072	U	0.052	U	0.053	U
Phenanthrene	100	100	0.29		0.2		0.55		0.049	U	0.035	U	0.036	U
Dibenzo(a,h)anthracene	0.33	0.33	0.051J	J	0.038	U	0.063	J	0.049	U	0.035	U	0.036	U
Indeno(1,2,3-cd)Pyrene	0.5	0.5	0.21		0.062	J	0.29		0.056	U	0.04	U	0.041	U
Pyrene	100	100	0.4		0.19		0.72		0.049	U	0.035	U	0.036	U
Biphenyl	--	--	0.066	U	0.066	U	0.11	U	0.083	U	0.06	U	0.061	U
4-Chloroaniline	--	--	0.053	U	0.052	U	0.085	U	0.066	U	0.048	U	0.049	U
2-Nitroaniline	--	--	0.057	U	0.056	U	0.091	U	0.071	U	0.051	U	0.052	U
3-Nitroaniline	--	--	0.055	U	0.055	U	0.089	U	0.069	U	0.05	U	0.051	U
4-Nitroaniline	--	--	0.054	U	0.054	U	0.087	U	0.068	U	0.049	U	0.05	U
Dibenzofuran	7	59	0.067	U	0.066	U	0.11	U	0.084	U	0.06	U	0.062	U
2-Methylnaphthalene	--	--	0.064	U	0.084	J	0.1	U	0.08	U	0.058	U	0.059	U
1,2,4,5-Tetrachlorobenzene	--	--	0.062	U	0.062	U	0.1	U	0.078	U	0.056	U	0.058	U
Acetophenone	--	--	0.062	U	0.062	U	0.1	U	0.078	U	0.056	U	0.058	U
2,4,6-Trichlorophenol	--	--	0.038	U	0.038	U	0.061	U	0.047	U	0.034	U	0.035	U
P-Chloro-M-Cresol	--	--	0.058	U	0.058	U	0.093	U	0.073	U	0.052	U	0.054	U
2-Chlorophenol	--	--	0.061	U	0.06	U	0.097	U	0.076	U	0.055	U	0.056	U
2,4-Dichlorophenol	--	--	0.065	U	0.064	U	0.1	U	0.082	U	0.059	U	0.06	U
2,4-Dimethylphenol	--	--	0.06	U	0.059	U	0.096	U	0.075	U	0.054	U	0.055	U
2-Nitrophenol	--	--	0.063	U	0.062	U	0.1	U	0.078	U	0.056	U	0.058	U
4-Nitrophenol	--	--	0.065	U	0.064	U	0.1	U	0.082	U	0.059	U	0.06	U
2,4-Dinitrophenol	--	--	0.27	U	0.27	U	0.44	U	0.34	U	0.25	U	0.25	U
4,6-Dinitro-o-cresol	--	--	0.073	U	0.073	U	0.12	U	0.092	U	0.066	U	0.068	U
Pentachlorophenol	0.8	6.7	0.043	U	0.042	U	0.069	U	0.054	U	0.039	U	0.04	U
Phenol	0.33	100	0.059	U	0.059	U	0.095	U	0.074	U	0.054	U	0.055	U
2-Methylphenol	0.33	100	0.065	U	0.064	U	0.1	U	0.081	U	0.058	U	0.06	U
3-Methylphenol/4-Methylphenol	0.33	100	0.066	U	0.065	U	0.1	U	0.082	U	0.059	U	0.061	U
2,4,5-Trichlorophenol	--	--	0.065	U	0.064	U	0.1	U	0.082	U	0.059	U	0.06	U
Benzoic Acid	--	--	0.2	U	0.2	U	0.32	U	0.25	U	0.18	U	0.19	U
Benzyl Alcohol	--	--	0.062	U	0.061	U	0.099	U	0.077	U	0.056	U	0.057	U
Carbazole	--	--	0.043	U	0.043	U	0.069	U	0.054	U	0.039	U	0.04	U

Notes:
NY-RESR: Residential Criteria, New York Restricted use current as of 5/2007
NY-UNRES: New York Unrestricted use Criteria current as of 5/2007
NY-RESRR: New York Restricted-Residential Criteria, New York Restricted use current as of 5/2007
Cells highlighted in yellow indicate concentrations above the NY-UNRES
Cells highlighted in orange indicate concentrations above the NY-RESRR
Cells shaded in grey indicate MDL values above the NY-RESR or NY-UNRES
DUP = designation for duplicate sample
MDL = Maximum Detection Limit
RL = Reporting limit
NA - Not Analyzed
Qual = Laboratory Data Qualifier
For U qualified entries, the MDL is shown
U = not detected at or above the MDL
For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
P - The RPD between the results for the two columns exceeds the method-specified criteria
I - The lower value for the two columns has been reported due to obvious interference
-- = No standard
Results and MDL values are in milligrams per killogram

Table 3 - Semivolatile Organic Compounds in Soil
911 Atlantic Avenue - Brooklyn, NY

SAMPLE ID:			SS-8 (0-2)		SS-8 (11-13)		SS-7 (0-2)		SS-7 (9-11)		SS-3A (6-8)		SS-4 (0-2)	
LAB ID:			L1526897-01		L1526897-02		L1526897-03		L1526897-04		L1526897-05		L1526897-06	
COLLECTION DATE:	NY-UNRES	NY-RESRR	10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015	
Semivolatile Organic Compounds Units: mg/kg			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Acenaphthene	20	100	0.7		0.036	U	0.2		0.039	U	0.04	U	3	
1,2,4-Trichlorobenzene	--	--	0.059	U	0.057	U	0.06	U	0.062	U	0.064	U	0.064	U
Hexachlorobenzene	0.33	1.2	0.034	U	0.032	U	0.034	U	0.036	U	0.036	U	0.036	U
Bis(2-chloroethyl)ether	--	--	0.051	U	0.049	U	0.051	U	0.053	U	0.055	U	0.055	U
2-Chloronaphthalene	--	--	0.059	U	0.057	U	0.059	U	0.062	U	0.064	U	0.064	U
1,2-Dichlorobenzene	1.1	100	0.059	U	0.057	U	0.06	U	0.062	U	0.064	U	0.064	U
1,3-Dichlorobenzene	2.4	49	0.057	U	0.055	U	0.058	U	0.06	U	0.062	U	0.061	U
1,4-Dichlorobenzene	1.8	13	0.055	U	0.053	U	0.055	U	0.058	U	0.06	U	0.059	U
3,3'-Dichlorobenzidine	--	--	0.048	U	0.046	U	0.048	U	0.051	U	0.052	U	0.052	U
2,4-Dinitrotoluene	--	--	0.039	U	0.038	U	0.039	U	0.041	U	0.042	U	0.042	U
2,6-Dinitrotoluene	--	--	0.046	U	0.044	U	0.047	U	0.049	U	0.05	U	0.05	U
Fluoranthene	100	100	5		0.036	J	1.4		0.055	J	0.33		36	
4-Chlorophenyl phenyl ether	--	--	0.055	U	0.053	U	0.056	U	0.058	U	0.06	U	0.059	U
4-Bromophenyl phenyl ether	--	--	0.042	U	0.04	U	0.042	U	0.044	U	0.045	U	0.045	U
Bis(2-chloroisopropyl)ether	--	--	0.064	U	0.061	U	0.064	U	0.067	U	0.069	U	0.069	U
Bis(2-chloroethoxy)methane	--	--	0.055	U	0.053	U	0.055	U	0.058	U	0.059	U	0.059	U
Hexachlorobutadiene	--	--	0.051	U	0.049	U	0.051	U	0.054	U	0.055	U	0.055	U
Hexachlorocyclopentadiene	--	--	0.12	U	0.11	U	0.12	U	0.12	U	0.12	U	0.12	U
Hexachloroethane	--	--	0.033	U	0.032	U	0.033	U	0.035	U	0.036	U	0.035	U
Isophorone	--	--	0.048	U	0.046	U	0.048	U	0.051	U	0.052	U	0.052	U
Naphthalene	12	100	0.3		0.058	U	0.21		0.063	U	0.065	U	3.3	
Nitrobenzene	--	15	0.043	U	0.041	U	0.043	U	0.045	U	0.047	U	0.046	U
NitrosoDiPhenylAmine(NDPA)/DPA	--	--	0.038	U	0.036	U	0.038	U	0.04	U	0.041	U	0.041	U
n-Nitrosodi-n-propylamine	--	--	0.054	U	0.052	U	0.054	U	0.057	U	0.058	U	0.058	U
Bis(2-Ethylhexyl)phthalate	--	--	0.047	U	0.15	J	0.048	U	0.05	U	0.051	U	0.051	U
Butyl benzyl phthalate	--	--	0.035	U	0.034	U	0.036	U	0.037	U	0.038	U	0.038	U
Di-n-butylphthalate	--	--	0.035	U	0.034	U	0.035	U	0.037	U	0.038	U	0.038	U
Di-n-octylphthalate	--	--	0.044	U	0.043	U	0.045	U	0.047	U	0.048	U	0.048	U
Diethyl phthalate	--	--	0.038	U	0.037	U	0.038	U	0.04	U	0.041	U	0.041	U
Dimethyl phthalate	--	--	0.046	U	0.044	U	0.046	U	0.048	U	0.05	U	0.05	U
Benzo(a)anthracene	1	1	2.6		0.034	U	0.6		0.037	U	0.2		13	
Benzo(a)pyrene	1	1	1.9		0.042	U	0.48		0.047	U	0.19		12	
Benzo(b)fluoranthene	1	1	2.3		0.035	U	0.6		0.038	U	0.23		14	
Benzo(k)fluoranthene	0.8	3.9	1.1		0.033	U	0.25		0.036	U	0.086	J	3.9	
Chrysene	1	3.9	2.6		0.034	U	0.6		0.037	U	0.18		14	
Acenaphthylene	100	100	0.12	J	0.032	U	0.085	J	0.036	U	0.037	U	0.31	
Anthracene	100	100	1.6		0.029	U	0.34		0.032	U	0.054	J	6.6	
Benzo(ghi)perylene	100	100	0.92		0.036	U	0.26		0.04	U	0.096	J	7.4	
Fluorene	30	100	0.57		0.05	U	0.19		0.055	U	0.056	U	2.3	
Phenanthrene	100	100	5		0.034	U	1.6		0.037	U	0.17		35	
Dibenzo(a,h)anthracene	0.33	0.33	0.29		0.034	U	0.07	J	0.037	U	0.038	U	1.6	
Indeno(1,2,3-cd)Pyrene	0.5	0.5	1.1		0.038	U	0.29		0.042	U	0.11	J	7.4	
Pyrene	100	100	4.2		0.034	U	1.2		0.05	J	0.31		33	
Biphenyl	--	--	0.063	J	0.057	U	0.06	U	0.063	U	0.065	U	0.52	
4-Chloroaniline	--	--	0.048	U	0.046	U	0.048	U	0.05	U	0.052	U	0.051	U
2-Nitroaniline	--	--	0.051	U	0.049	U	0.051	U	0.054	U	0.055	U	0.055	U
3-Nitroaniline	--	--	0.05	U	0.048	U	0.05	U	0.053	U	0.054	U	0.054	U
4-Nitroaniline	--	--	0.049	U	0.047	U	0.049	U	0.051	U	0.053	U	0.053	U
Dibenzofuran	7	59	0.49		0.058	U	0.16	J	0.064	U	0.065	U	1.8	
2-Methylnaphthalene	--	--	0.22		0.056	U	0.11	J	0.061	U	0.062	U	1.6	
1,2,4,5-Tetrachlorobenzene	--	--	0.056	U	0.054	U	0.056	U	0.059	U	0.061	U	0.06	U
Acetophenone	--	--	0.056	U	0.054	U	0.056	U	0.059	U	0.061	U	0.06	U
2,4,6-Trichlorophenol	--	--	0.034	U	0.033	U	0.034	U	0.036	U	0.037	U	0.037	U
P-Chloro-M-Cresol	--	--	0.052	U	0.05	U	0.053	U	0.055	U	0.057	U	0.056	U
2-Chlorophenol	--	--	0.054	U	0.052	U	0.055	U	0.058	U	0.059	U	0.059	U
2,4-Dichlorophenol	--	--	0.058	U	0.056	U	0.059	U	0.062	U	0.063	U	0.063	U
2,4-Dimethylphenol	--	--	0.054	U	0.052	U	0.054	U	0.057	U	0.058	U	0.062	J
2-Nitrophenol	--	--	0.056	U	0.054	U	0.057	U	0.059	U	0.061	U	0.061	U
4-Nitrophenol	--	--	0.058	U	0.056	U	0.059	U	0.062	U	0.063	U	0.063	U
2,4-Dinitrophenol	--	--	0.25	U	0.24	U	0.25	U	0.26	U	0.27	U	0.27	U
4,6-Dinitro-o-cresol	--	--	0.066	U	0.064	U	0.067	U	0.07	U	0.072	U	0.071	U
Pentachlorophenol	0.8	6.7	0.039	U	0.037	U	0.039	U	0.041	U	0.042	U	0.042	U
Phenol	0.33	100	0.054	U	0.051	U	0.054	U	0.056	U	0.058	U	0.058	U
2-Methylphenol	0.33	100	0.058	U	0.056	U	0.059	U	0.061	U	0.063	U	0.063	U
3-Methylphenol/4-Methylphenol	0.33	100	0.059	U	0.057	U	0.06	U	0.062	U	0.064	U	0.094	J
2,4,5-Trichlorophenol	--	--	0.058	U	0.056	U	0.059	U	0.062	U	0.063	U	0.063	U
Benzoic Acid	--	--	0.18	U	0.18	U	0.18	U	0.19	U	0.2	U	0.2	U
Benzyl Alcohol	--	--	0.056	U	0.054	U	0.056	U	0.059	U	0.06	U	0.06	U
Carbazole	--	--	0.64		0.037	U	0.17	J	0.041	U	0.042	U	2.7	

Notes:
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NY-UNRES: New York Unrestricted use Criteria current as of 5/2007
NY-RESRR: New York Restricted-Residential Criteria, New York Restricted use current as of 5/2007
Cells highlighted in yellow indicate concentrations above the NY-UNRES
Cells highlighted in orange indicate concentrations above the NY-RESRR
Cells shaded in grey indicate MDL values above the NY-RESR or NY-UNRES
DUP = designation for duplicate sample
MDL = Maximum Detection Limit
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For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
P - The RPD between the results for the two columns exceeds the method-specified criteria
I - The lower value for the two columns has been reported due to obvious interference
-- = No standard
Results and MDL values are in milligrams per killogram

Table 3 - Semivolatile Organic Compounds in Soil
911 Atlantic Avenue - Brooklyn, NY

SAMPLE ID:			SS-4 (6-8)		SS-2A (6-8)		SS-5 (0-2)		SS-5 (4-6)		SS-6 (0-2)		SS-6 (4-5)	
LAB ID:			L1526897-07		L1526897-09		L1526897-10		L1526897-12		L1526897-13		L1526897-15	
COLLECTION DATE:	NY-UNRES	NY-RESRR	10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015	
Semivolatile Organic Compounds Units: mg/kg			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Acenaphthene	20	100	0.038	U	0.07	J	0.096	J	0.19		1.2		0.042	J
1,2,4-Trichlorobenzene	--	--	0.06	U	0.064	U	0.058	U	0.058	U	0.06	U	0.057	U
Hexachlorobenzene	0.33	1.2	0.034	U	0.036	U	0.033	U	0.033	U	0.034	U	0.032	U
Bis(2-chloroethyl)ether	--	--	0.052	U	0.054	U	0.05	U	0.049	U	0.051	U	0.049	U
2-Chloronaphthalene	--	--	0.06	U	0.063	U	0.058	U	0.057	U	0.059	U	0.057	U
1,2-Dichlorobenzene	1.1	100	0.06	U	0.064	U	0.058	U	0.058	U	0.06	U	0.057	U
1,3-Dichlorobenzene	2.4	49	0.058	U	0.061	U	0.056	U	0.055	U	0.057	U	0.055	U
1,4-Dichlorobenzene	1.8	13	0.056	U	0.059	U	0.054	U	0.053	U	0.055	U	0.053	U
3,3'-Dichlorobenzidine	--	--	0.049	U	0.052	U	0.047	U	0.047	U	0.048	U	0.046	U
2,4-Dinitrotoluene	--	--	0.04	U	0.042	U	0.038	U	0.038	U	0.039	U	0.038	U
2,6-Dinitrotoluene	--	--	0.047	U	0.05	U	0.045	U	0.045	U	0.047	U	0.045	U
Fluoranthene	100	100	0.15		0.97		0.81		1.7		12		0.46	
4-Chlorophenyl phenyl ether	--	--	0.056	U	0.059	U	0.054	U	0.054	U	0.055	U	0.053	U
4-Bromophenyl phenyl ether	--	--	0.042	U	0.045	U	0.041	U	0.04	U	0.042	U	0.04	U
Bis(2-chloroisopropyl)ether	--	--	0.065	U	0.068	U	0.062	U	0.062	U	0.064	U	0.061	U
Bis(2-chloroethoxy)methane	--	--	0.056	U	0.059	U	0.054	U	0.053	U	0.055	U	0.053	U
Hexachlorobutadiene	--	--	0.052	U	0.055	U	0.05	U	0.05	U	0.051	U	0.049	U
Hexachlorocyclopentadiene	--	--	0.12	U	0.12	U	0.11	U	0.11	U	0.12	U	0.11	U
Hexachloroethane	--	--	0.034	U	0.035	U	0.032	U	0.032	U	0.033	U	0.032	U
Isophorone	--	--	0.049	U	0.052	U	0.047	U	0.047	U	0.048	U	0.046	U
Naphthalene	12	100	0.068	J	0.064	U	0.059	J	0.2		0.61		0.058	U
Nitrobenzene	--	15	0.044	U	0.046	U	0.042	U	0.042	U	0.043	U	0.041	U
NitrosoDiPhenylAmine(NDPA)/DPA	--	--	0.039	U	0.041	U	0.037	U	0.037	U	0.038	U	0.036	U
n-Nitrosodi-n-propylamine	--	--	0.055	U	0.058	U	0.053	U	0.052	U	0.054	U	0.052	U
Bis(2-Ethylhexyl)phthalate	--	--	0.18		0.051	U	0.12	J	0.046	U	0.048	U	0.046	U
Butyl benzyl phthalate	--	--	0.036	U	0.038	U	0.035	U	0.034	U	0.036	U	0.034	U
Di-n-butylphthalate	--	--	0.036	U	0.037	U	0.034	U	0.034	U	0.035	U	0.034	U
Di-n-octylphthalate	--	--	0.045	U	0.048	U	0.044	U	0.043	U	0.045	U	0.043	U
Diethyl phthalate	--	--	0.039	U	0.041	U	0.038	U	0.037	U	0.038	U	0.037	U
Dimethyl phthalate	--	--	0.047	U	0.049	U	0.045	U	0.045	U	0.046	U	0.044	U
Benzo(a)anthracene	1	1	0.07	J	0.47		0.34		0.75		4.7		0.21	
Benzo(a)pyrene	1	1	0.06	J	0.4		0.27		0.62		3.9		0.17	
Benzo(b)fluoranthene	1	1	0.072	J	0.5		0.34		0.74		4.9		0.21	
Benzo(k)fluoranthene	0.8	3.9	0.035	U	0.19		0.13		0.31		1.8		0.081	J
Chrysene	1	3.9	0.07	J	0.48		0.33		0.76		5		0.21	
Acenaphthylene	100	100	0.034	U	0.044	J	0.033	U	0.096	J	0.29		0.032	U
Anthracene	100	100	0.034	J	0.2		0.22		0.4		2.3		0.097	J
Benzo(ghi)perylene	100	100	0.04	J	0.21		0.14		0.33		2.2		0.094	J
Fluorene	30	100	0.053	U	0.067	J	0.089	J	0.19		1.1		0.05	U
Phenanthrene	100	100	0.17		0.69		0.88		1.8		12		0.42	
Dibenzo(a,h)anthracene	0.33	0.33	0.036	U	0.061	J	0.042	J	0.1		0.69		0.034	U
Indeno(1,2,3-cd)Pyrene	0.5	0.5	0.041	U	0.24		0.16		0.37		2.4		0.1	J
Pyrene	100	100	0.13		0.81		0.68		1.4		10		0.41	
Biphenyl	--	--	0.061	U	0.064	U	0.058	U	0.058	U	0.11	J	0.057	U
4-Chloroaniline	--	--	0.049	U	0.051	U	0.047	U	0.046	U	0.048	U	0.046	U
2-Nitroaniline	--	--	0.052	U	0.055	U	0.05	U	0.05	U	0.051	U	0.049	U
3-Nitroaniline	--	--	0.051	U	0.054	U	0.049	U	0.048	U	0.05	U	0.048	U
4-Nitroaniline	--	--	0.05	U	0.052	U	0.048	U	0.048	U	0.049	U	0.047	U
Dibenzofuran	7	59	0.062	U	0.065	U	0.085	J	0.18		0.84		0.058	U
2-Methylnaphthalene	--	--	0.074	J	0.062	U	0.057	U	0.1	J	0.38		0.056	U
1,2,4,5-Tetrachlorobenzene	--	--	0.057	U	0.06	U	0.055	U	0.054	U	0.056	U	0.054	U
Acetophenone	--	--	0.057	U	0.06	U	0.055	U	0.054	U	0.056	U	0.054	U
2,4,6-Trichlorophenol	--	--	0.035	U	0.037	U	0.033	U	0.033	U	0.034	U	0.033	U
P-Chloro-M-Cresol	--	--	0.053	U	0.056	U	0.051	U	0.051	U	0.053	U	0.05	U
2-Chlorophenol	--	--	0.056	U	0.059	U	0.054	U	0.053	U	0.055	U	0.053	U
2,4-Dichlorophenol	--	--	0.06	U	0.063	U	0.058	U	0.057	U	0.059	U	0.056	U
2,4-Dimethylphenol	--	--	0.055	U	0.058	U	0.053	U	0.052	U	0.054	U	0.052	U
2-Nitrophenol	--	--	0.058	U	0.061	U	0.055	U	0.055	U	0.057	U	0.054	U
4-Nitrophenol	--	--	0.06	U	0.063	U	0.058	U	0.057	U	0.059	U	0.056	U
2,4-Dinitrophenol	--	--	0.25	U	0.26	U	0.24	U	0.24	U	0.25	U	0.24	U
4,6-Dinitro-o-cresol	--	--	0.067	U	0.071	U	0.065	U	0.064	U	0.067	U	0.064	U
Pentachlorophenol	0.8	6.7	0.039	U	0.042	U	0.038	U	0.038	U	0.039	U	0.037	U
Phenol	0.33	100	0.054	U	0.058	U	0.052	U	0.052	U	0.054	U	0.052	U
2-Methylphenol	0.33	100	0.059	U	0.062	U	0.057	U	0.057	U	0.059	U	0.056	U
3-Methylphenol/4-Methylphenol	0.33	100	0.06	U	0.064	U	0.058	U	0.058	U	0.06	U	0.057	U
2,4,5-Trichlorophenol	--	--	0.06	U	0.063	U	0.058	U	0.057	U	0.059	U	0.056	U
Benzoic Acid	--	--	0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U
Benzyl Alcohol	--	--	0.057	U	0.06	U	0.055	U	0.054	U	0.056	U	0.054	U
Carbazole	--	--	0.04	U	0.08	J	0.1	J	0.2		1.1		0.038	J

Notes:
NY-RESR: Residential Criteria, New York Restricted use current as of 5/2007
NY-UNRES: New York Unrestricted use Criteria current as of 5/2007
NY-RESRR: New York Restricted-Residential Criteria, New York Restricted use current as of 5/2007
Cells highlighted in yellow indicate concentrations above the NY-UNRES
Cells highlighted in orange indicate concentrations above the NY-RESRR
Cells shaded in grey indicate MDL values above the NY-RESR or NY-UNRES
DUP = designation for duplicate sample
MDL = Maximum Detection Limit
RL = Reporting limit
NA - Not Analyzed
Qual = Laboratory Data Qualifier
For U qualified entries, the MDL is shown
U = not detected at or above the MDL
For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
P - The RPD between the results for the two columns exceeds the method-specified criteria
I - The lower value for the two columns has been reported due to obvious interference
-- = No standard
Results and MDL values are in milligrams per killogram

Table 4 - Pesticides and Polychlorinated Biphenyls in Soil
911 Atlantic Avenue - Brooklyn, NY

SAMPLE ID:			SS1 (0-2)		SS2 (0-2)		SS3 (0-2)		SB-1		SB-2		SB-3 (60-62)	
LAB ID:			L1500485-01		L1500485-01		L1500485-03		L1524506-01		L1524831-01		L1524831-02	
COLLECTION DATE:	NY-UNRES	NY-RESRR	1/9/2015		1/9/2015		1/9/2015		9/29/2015		10/1/2015		10/2/2015	
Pesticides Units: mg/kg			**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
Delta-BHC	0.04	100	0.000372	U	0.000372	U	0.000588	U	0.000469	U	0.000335	U	0.000343	U
Lindane	0.1	1.3	0.000354	U	0.000354	U	0.00056	U	0.000446	U	0.000319	U	0.000327	U
Alpha-BHC	0.02	0.48	0.000225	U	0.000225	U	0.000356	U	0.000283	U	0.000202	U	0.000208	U
Beta-BHC	0.036	0.36	0.00072	U	0.00072	U	0.00114	U	0.000908	U	0.000649	U	0.000665	U
Heptachlor	0.042	2.1	0.000748	J	0.000524	J	0.000761	J	0.000537	U	0.000384	U	0.000393	U
Aldrin	0.005	0.097	0.000669	U	0.000669	U	0.00106	U	0.000843	U	0.000602	U	0.000617	U
Heptachlor epoxide	--	--	0.00107	U	0.00107	U	0.00169	U	0.00135	U	0.000963	U	0.000986	U
Endrin	0.014	11	0.000324	U	0.000325	U	0.000513	U	0.000409	U	0.000292	U	0.0003	U
Endrin ketone	--	--	0.000489	U	0.000489	U	0.000774	U	0.000617	U	0.000441	U	0.000452	U
Dieldrin	0.005	0.2	0.000594	U	0.000594	U	0.000939	U	0.000748	U	0.000535	U	0.000548	U
4,4'-DDE	0.0033	8.9	0.00228		0.000439	U	0.00377		0.000554	U	0.000396	U	0.000406	U
4,4'-DDD	0.0033	13	0.000678	U	0.000678	U	0.00107	U	0.000854	U	0.00061	U	0.000625	U
4,4'-DDT	0.0033	7.9	0.00239	J	0.00153	U	0.0108		0.00193	U	0.00138	U	0.00141	U
Endosulfan I	2.4	24	0.000449	U	0.000449	U	0.00071	U	0.000566	U	0.000404	U	0.000414	U
Endosulfan II	2.4	24	0.000635	U	0.000635	U	0.001	U	0.0008	U	0.000572	U	0.000586	U
Endosulfan sulfate	2.4	24	0.000377	U	0.000377	U	0.000596	U	0.000475	U	0.000339	U	0.000348	U
Methoxychlor	--	--	0.00111	U	0.00111	U	0.00175	U	0.0014	U	0.000998	U	0.00102	U
Toxaphene	--	--	0.00997	U	0.00998	U	0.0158	U	0.0126	U	0.00898	U	0.00921	U
cis-Chlordane	0.094	4.2	0.00105	J	0.000662	U	0.00182	J	0.000834	U	0.000596	U	0.000611	U
trans-Chlordane	--	--	0.00109	J	0.000627	U	0.0014	J	0.00079	U	0.000565	U	0.000579	U
Chlordane	--	--	0.0118	J	0.00629	U	0.0218	J	0.00793	U	0.00567	U	0.00581	U
Polychlorinated Biphenyls														
Aroclor 1016	0.1	1	0.00307	U	0.00316	U	0.00517	U	0.00386	U	0.0028	U	0.00284	U
Aroclor 1221	0.1	1	0.00359	U	0.00368	U	0.00604	U	0.00451	U	0.00327	U	0.00332	U
Aroclor 1232	0.1	1	0.00456	U	0.00468	U	0.00767	U	0.00573	U	0.00416	U	0.00422	U
Aroclor 1242	0.1	1	0.00476	U	0.00489	U	0.00802	U	0.00599	U	0.00434	U	0.0044	U
Aroclor 1248	0.1	1	0.00328	U	0.00337	U	0.00553	U	0.00413	U	0.003	U	0.00304	U
Aroclor 1254	0.1	1	0.012	J	0.00328	U	0.0557	J	0.00402	U	0.00292	U	0.00296	U
Aroclor 1260	0.1	1	0.0342	J	0.011	J	0.142		0.00373	U	0.0027	U	0.00274	U
Aroclor 1262	0.1	1	0.00193	U	0.00198	U	0.00325	U	0.00243	U	0.00176	U	0.00178	U
Aroclor 1268	0.1	1	0.00564	U	0.00579	U	0.00949	U	0.00709	U	0.00515	U	0.00522	U
PCBs, Total	--	--	0.0462	J	0.011	J	0.198	J	0.00243	U	0.00176	U	0.00178	U

Notes:
NY-RESR: Residential Criteria, New York Restricted use current as of 5/2007
NY-UNRES: New York Unrestricted use Criteria current as of 5/2007
NY-RESRR: New York Restricted-Residential Criteria, New York Restricted use current as of 5/2007
Cells highlighted in yellow indicate concentrations above the NY-UNRES
Cells highlighted in orange indicate concentrations above the NY-RESRR
Cells shaded in grey indicate MDL values above the NY-RESR or NY-UNRES
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MDL = Maximum Detection Limit
RL = Reporting limit
NA - Not Analyzed
Qual = Laboratory Data Qualifier
For U qualified entries, the MDL is shown
U = not detected at or above the MDL
For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
P - The RPD between the results for the two columns exceeds the method-specified criteria
I - The lower value for the two columns has been reported due to obvious interference
-- = No standard
Results and MDL values are in milligrams per killogram

Table 4 - Pesticides and Polychlorinated Biphenyls in Soil
911 Atlantic Avenue - Brooklyn, NY

SAMPLE ID:			SS-8 (0-2)		SS-8 (11-13)		SS-7 (0-2)		SS-7 (9-11)		SS-3A (6-8)		SS-4 (0-2)	
LAB ID:			L1526897-01		L1526897-02		L1526897-03		L1526897-04		L1526897-05		L1526897-06	
COLLECTION DATE:	NY-UNRES	NY-RESRR	10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015	
Pesticides Units: mg/kg			**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
Delta-BHC	0.04	100	0.000338	U	0.000331	U	0.00034	U	0.000352	U	0.00037	U	0.000366	U
Lindane	0.1	1.3	0.000321	U	0.000314	U	0.000323	U	0.000335	U	0.000352	U	0.000348	U
Alpha-BHC	0.02	0.48	0.000204	U	0.0002	U	0.000206	U	0.000213	U	0.000223	U	0.000221	U
Beta-BHC	0.036	0.36	0.000654	U	0.00064	U	0.000658	U	0.000681	U	0.000716	U	0.000709	U
Heptachlor	0.042	2.1	0.000387	U	0.000378	U	0.000389	U	0.000403	U	0.000423	U	0.000419	U
Aldrin	0.005	0.097	0.000607	U	0.000594	U	0.000611	U	0.000633	U	0.000665	U	0.000659	U
Heptachlor epoxide	--	--	0.00097	U	0.00095	U	0.000977	U	0.00101	U	0.00106	U	0.00105	U
Endrin	0.014	11	0.000295	U	0.000288	U	0.000297	U	0.000307	U	0.000322	U	0.00032	U
Endrin ketone	--	--	0.000444	U	0.000435	U	0.000447	U	0.000463	U	0.000486	U	0.000482	U
Dieldrin	0.005	0.2	0.000539	U	0.000528	U	0.000543	U	0.000562	U	0.00059	U	0.000584	U
4,4'-DDE	0.0033	8.9	0.000399	U	0.00039	U	0.000402	U	0.000416	U	0.000437	U	0.00575	
4,4'-DDD	0.0033	13	0.000615	U	0.000602	U	0.000619	U	0.000641	U	0.000673	U	0.000667	U
4,4'-DDT	0.0033	7.9	0.00139	U	0.00136	U	0.0014	U	0.00144	U	0.00152	U	0.0015	U
Endosulfan I	2.4	24	0.000408	U	0.000399	U	0.00041	U	0.000425	U	0.000446	U	0.000442	U
Endosulfan II	2.4	24	0.00455		0.000564	U	0.00058	U	0.0006	U	0.000631	U	0.000625	U
Endosulfan sulfate	2.4	24	0.000342	U	0.000335	U	0.000344	U	0.000356	U	0.000374	U	0.000371	U
Methoxychlor	--	--	0.00101	U	0.000985	U	0.00101	U	0.00105	U	0.0011	U	0.00109	U
Toxaphene	--	--	0.00906	U	0.00886	U	0.00912	U	0.00944	U	0.00991	U	0.00982	U
cis-Chlordane	0.094	4.2	0.000601	U	0.000588	U	0.000605	U	0.000626	U	0.000658	U	0.000652	U
trans-Chlordane	--	--	0.00096	J	0.000557	U	0.00183	J	0.000593	U	0.000623	U	0.000617	U
Chlordane	--	--	0.00572	U	0.00559	U	0.00575	U	0.00595	U	0.00625	U	0.0062	U
Polychlorinated Biphenyls														
Aroclor 1016	0.1	1	0.00279	U	0.00267	U	0.00281	U	0.00294	U	0.00307	U	0.003	U
Aroclor 1221	0.1	1	0.00325	U	0.00312	U	0.00328	U	0.00343	U	0.00358	U	0.0035	U
Aroclor 1232	0.1	1	0.00414	U	0.00397	U	0.00417	U	0.00436	U	0.00456	U	0.00445	U
Aroclor 1242	0.1	1	0.00432	U	0.00414	U	0.00436	U	0.00455	U	0.00476	U	0.00465	U
Aroclor 1248	0.1	1	0.00298	U	0.00286	U	0.003	U	0.00314	U	0.00328	U	0.00321	U
Aroclor 1254	0.1	1	0.0029	U	0.00278	U	0.00293	U	0.00306	U	0.0032	U	0.00312	U
Aroclor 1260	0.1	1	0.00269	U	0.00258	U	0.00271	U	0.00283	U	0.00296	U	0.0291	J
Aroclor 1262	0.1	1	0.00175	U	0.00168	U	0.00177	U	0.00184	U	0.00193	U	0.00188	U
Aroclor 1268	0.1	1	0.00512	U	0.00491	U	0.00516	U	0.00539	U	0.00564	U	0.00551	U
PCBs, Total	--	--	0.00175	U	0.00168	U	0.00177	U	0.00184	U	0.00193	U	0.0291	J

Notes:
NY-RESR: Residential Criteria, New York Restricted use current as of 5/2007
NY-UNRES: New York Unrestricted use Criteria current as of 5/2007
NY-RESRR: New York Restricted-Residential Criteria, New York Restricted use current as of 5/2007
Cells highlighted in yellow indicate concentrations above the NY-UNRES
Cells highlighted in orange indicate concentrations above the NY-RESRR
Cells shaded in grey indicate MDL values above the NY-RESR or NY-UNRES
DUP = designation for duplicate sample
MDL = Maximum Detection Limit
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Qual = Laboratory Data Qualifier
For U qualified entries, the MDL is shown
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For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
P - The RPD between the results for the two columns exceeds the method-specified criteria
I - The lower value for the two columns has been reported due to obvious interference
-- = No standard
Results and MDL values are in milligrams per killogram

Table 4 - Pesticides and Polychlorinated Biphenyls in Soil
911 Atlantic Avenue - Brooklyn, NY

SAMPLE ID:			SS-4 (6-8)		SS-2A (6-8)		SS-5 (0-2)		SS-5 (4-6)		SS-6 (0-2)		SS-6 (4-5)	
LAB ID:			L1526897-07		L1526897-09		L1526897-10		L1526897-12		L1526897-13		L1526897-15	
COLLECTION DATE:	NY-UNRES	NY-RESRR	10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015	
Pesticides **Units: mg/kg**			**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
Delta-BHC	0.04	100	0.000335	U	0.000362	U	0.000329	U	0.000331	U	0.000336	U	0.000331	U
Lindane	0.1	1.3	0.000318	U	0.000344	U	0.000313	U	0.000315	U	0.00032	U	0.000315	U
Alpha-BHC	0.02	0.48	0.000202	U	0.000219	U	0.000199	U	0.0002	U	0.000203	U	0.0002	U
Beta-BHC	0.036	0.36	0.000648	U	0.000701	U	0.000636	U	0.000642	U	0.000651	U	0.000642	U
Heptachlor	0.042	2.1	0.000383	U	0.000414	U	0.000376	U	0.000379	U	0.000385	U	0.000379	U
Aldrin	0.005	0.097	0.000602	U	0.000651	U	0.000591	U	0.000596	U	0.000604	U	0.000596	U
Heptachlor epoxide	--	--	0.000962	U	0.00104	U	0.000944	U	0.000952	U	0.000965	U	0.000952	U
Endrin	0.014	11	0.000292	U	0.000316	U	0.000287	U	0.000289	U	0.000293	U	0.000289	U
Endrin ketone	--	--	0.00044	U	0.000476	U	0.000432	U	0.000436	U	0.000442	U	0.000436	U
Dieldrin	0.005	0.2	0.000534	U	0.000578	U	0.000524	U	0.000529	U	0.000536	U	0.000529	U
4,4'-DDE	0.0033	8.9	0.000395	U	0.000427	U	0.000388	U	0.000391	U	0.000397	U	0.000391	U
4,4'-DDD	0.0033	13	0.00061	U	0.000659	U	0.000599	U	0.000604	U	0.000612	U	0.000604	U
4,4'-DDT	0.0033	7.9	0.00258	J	0.00149	U	0.00135	U	0.00136	U	0.00138	U	0.00189	J
Endosulfan I	2.4	24	0.000404	U	0.000437	U	0.000396	U	0.0004	U	0.000405	U	0.0004	U
Endosulfan II	2.4	24	0.000571	U	0.000618	U	0.000561	U	0.00246	PI	0.0034	PI	0.000566	U
Endosulfan sulfate	2.4	24	0.000339	U	0.000366	U	0.000333	U	0.000336	U	0.00034	U	0.000336	U
Methoxychlor	--	--	0.000997	U	0.00108	U	0.000979	U	0.000987	U	0.001	U	0.000987	U
Toxaphene	--	--	0.00898	U	0.0097	U	0.00881	U	0.00888	U	0.00901	U	0.00889	U
cis-Chlordane	0.094	4.2	0.000596	U	0.000644	U	0.000585	U	0.000589	U	0.000598	U	0.00059	U
trans-Chlordane	--	--	0.000564	U	0.00061	U	0.000554	U	0.000558	U	0.000566	U	0.000558	U
Chlordane	--	--	0.00566	U	0.00612	U	0.00556	U	0.0056	U	0.00568	U	0.00561	U
Polychlorinated Biphenyls														
Aroclor 1016	0.1	1	0.00293	U	0.003	U	0.00285	U	0.00268	U	0.0029	U	0.00278	U
Aroclor 1221	0.1	1	0.00342	U	0.0035	U	0.00333	U	0.00313	U	0.00339	U	0.00324	U
Aroclor 1232	0.1	1	0.00435	U	0.00445	U	0.00423	U	0.00398	U	0.0043	U	0.00412	U
Aroclor 1242	0.1	1	0.00454	U	0.00465	U	0.00442	U	0.00416	U	0.0045	U	0.00431	U
Aroclor 1248	0.1	1	0.00313	U	0.00321	U	0.00305	U	0.00286	U	0.0031	U	0.00297	U
Aroclor 1254	0.1	1	0.00305	U	0.00312	U	0.00297	U	0.00279	U	0.00302	U	0.00289	U
Aroclor 1260	0.1	1	0.00283	U	0.0029	U	0.00275	U	0.00259	U	0.0028	U	0.00268	U
Aroclor 1262	0.1	1	0.00184	U	0.00188	U	0.00179	U	0.00168	U	0.00182	U	0.00174	U
Aroclor 1268	0.1	1	0.00538	U	0.00551	U	0.00524	U	0.00492	U	0.00533	U	0.0051	U
PCBs, Total	--	--	0.00184	U	0.00188	U	0.00179	U	0.00168	U	0.00182	U	0.00174	U

Notes:
NY-RESR: Residential Criteria, New York Restricted use current as of 5/2007
NY-UNRES: New York Unrestricted use Criteria current as of 5/2007
NY-RESRR: New York Restricted-Residential Criteria, New York Restricted use current as of 5/2007
Cells highlighted in yellow indicate concentrations above the NY-UNRES
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DUP = designation for duplicate sample
MDL = Maximum Detection Limit
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NA - Not Analyzed
Qual = Laboratory Data Qualifier
For U qualified entries, the MDL is shown
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For J qualified entries, the estimated concentration is shown
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P - The RPD between the results for the two columns exceeds the method-specified criteria
I - The lower value for the two columns has been reported due to obvious interference
-- = No standard
Results and MDL values are in milligrams per killogram

Table 5 - Metals in Soil
911 Atlantic Avenue - Brooklyn, NY

SAMPLE ID:			SS1 (0-2)		SS2 (0-2)		SS3 (0-2)		SB-1		SB-2		SB-3 (60-62)	
LAB ID:			L1500485-01		L1500485-01		L1500485-03		L1524506-01		L1524831-01		L1524831-02	
COLLECTION DATE:	NY-UNRES	NY-RESRR	1/9/2015		1/9/2015		1/9/2015		9/29/2015		42278		42279	
Metals Units: mg/kg			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum, Total	--	--	3100		2500		2700		3000		3900		4200	
Antimony, Total	--	--	4	J	1.4	J	5.6	J	0.9	U	0.7	U	3	J
Arsenic, Total	13	16	13		11		28		1.2		3.7		3.5	
Barium, Total	350	400	320		61		640		18		20		22	
Beryllium, Total	7.2	72	0.34	J	0.26	J	0.54	J	0.15	J	0.19	J	0.21	J
Cadmium, Total	2.5	4.3	2.2		0.34	J	2.8		0.08	U	0.06	U	0.06	U
Calcium, Total	--	--	5900		26000		3400		1400		6200		2000	
Chromium, Total	--	--	19		6.3		34		14		26		13	
Cobalt, Total	--	--	5.5		3.5		8.8		3.6		6.8		4.7	
Copper, Total	50	270	170		51		170		11		150		34	
Iron, Total	--	--	14000		5300		30000		8700		10000		10000	
Lead, Total	63	400	550		46		1100		0.79	J	0.17	U	0.18	U
Magnesium, Total	--	--	920		2900		510		4100		6100		5100	
Manganese, Total	1600	2000	150		64		230		120		180		230	
Mercury, Total	0.18	0.81	0.23		0.09		9.6		0.02	U	0.02	J	0.02	J
Nickel, Total	30	310	24		9.1		22		34		85		27	
Potassium, Total	--	--	380		350		290	J	860		1100		1400	
Selenium, Total	3.9	180	0.64	J	0.65	J	2.2	J	0.34	U	1.4	J	0.27	U
Silver, Total	2	180	0.44	J	0.19	U	1.8		0.22	U	0.17	U	0.18	U
Sodium, Total	--	--	200		99	J	110	J	220		170		180	
Thallium, Total	--	--	0.37	U	0.38	U	0.59	U	0.45	U	0.35	U	0.36	U
Vanadium, Total	--	--	26		18		51		19		19		20	
Zinc, Total	109	10000	510		150		410		21		39		35	

Notes:
NY-RESR: Residential Criteria, New York Restricted use current as of 5/2007
NY-UNRES: New York Unrestricted use Criteria current as of 5/2007
NY-RESRR: New York Restricted-Residential Criteria, New York Restricted use current as of 5/2007
Cells highlighted in yellow indicate concentrations above the NY-UNRES
Cells highlighted in orange indicate concentrations above the NY-RESRR
Cells shaded in grey indicate MDL values above the NY-RESR or NY-UNRES
DUP = designation for duplicate sample
MDL = Maximum Detection Limit
RL = Reporting limit
NA - Not Analyzed
Qual = Laboratory Data Qualifier
For U qualified entries, the MDL is shown
U = not detected at or above the MDL
For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
P - The RPD between the results for the two columns exceeds the method-specified criteria
I - The lower value for the two columns has been reported due to obvious interference
-- = No standard
Results and MDL values are in milligrams per killogram

Table 5 - Metals in Soil
911 Atlantic Avenue - Brooklyn, NY

SAMPLE ID:			SS-8 (0-2)		SS-8 (11-13)		SS-7 (0-2)		SS-7 (9-11)		SS-3A (6-8)		SS-4 (0-2)	
LAB ID:			L1526897-01		L1526897-02		L1526897-03		L1526897-04		L1526897-05		L1526897-06	
COLLECTION DATE:	NY-UNRES	NY-RESRR	10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015	
Metals Units: mg/kg			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum, Total	--	--	8200		6500		9000		16000		10000		10000	
Antimony, Total	--	--	0.7	U	0.67	U	0.81	J	0.89	J	0.76	U	4	J
Arsenic, Total	13	16	4.9		3.8		8.7		6.8		6.3		9.5	
Barium, Total	350	400	51		33		60		34		77		180	
Beryllium, Total	7.2	72	0.36	J	0.28	J	0.37	J	0.36	J	0.44	J	0.44	J
Cadmium, Total	2.5	4.3	0.06	U	0.06	U	0.06	U	0.07	U	0.07	U	2.6	
Calcium, Total	--	--	5200		1100		3300		840		1400		1600	
Chromium, Total	--	--	19		19		17		22		20		18	
Cobalt, Total	--	--	6		5.6		8.5		6.3		7.5		11	
Copper, Total	50	270	22		18		29		18		20		93	
Iron, Total	--	--	15000		25000		21000		23000		16000		31000	
Lead, Total	63	400	86		0.17	U	50		4	J	84		780	
Magnesium, Total	--	--	3700		2000		3500		2500		2100		2100	
Manganese, Total	1600	2000	380		470		510		220		350		420	
Mercury, Total	0.18	0.81	0.17		0.03	J	0.14		0.02	U	0.22		0.24	
Nickel, Total	30	310	23		14		24		14		18		39	
Potassium, Total	--	--	850		960		1000		620		700		660	
Selenium, Total	3.9	180	0.26	U	0.25	U	0.26	U	0.28	U	0.29	U	0.28	U
Silver, Total	2	180	0.17	U	0.17	U	0.18	U	0.18	U	0.19	U	0.19	U
Sodium, Total	--	--	640		120	J	240		51	J	230		110	J
Thallium, Total	--	--	0.35	U	0.33	U	0.35	U	0.37	U	0.38	U	0.38	U
Vanadium, Total	--	--	26		29		57		30		26		31	
Zinc, Total	109	10000	52		38		60		41		110		2500	

Notes:
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NY-UNRES: New York Unrestricted use Criteria current as of 5/2007
NY-RESRR: New York Restricted-Residential Criteria, New York Restricted use current as of 5/2007
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Cells highlighted in orange indicate concentrations above the NY-RESRR
Cells shaded in grey indicate MDL values above the NY-RESR or NY-UNRES
DUP = designation for duplicate sample
MDL = Maximum Detection Limit
RL = Reporting limit
NA - Not Analyzed
Qual = Laboratory Data Qualifier
For U qualified entries, the MDL is shown
U = not detected at or above the MDL
For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
P - The RPD between the results for the two columns exceeds the method-specified criteria
I - The lower value for the two columns has been reported due to obvious interference
-- = No standard
Results and MDL values are in milligrams per killogram

Table 5 - Metals in Soil
911 Atlantic Avenue - Brooklyn, NY

SAMPLE ID:			SS-4 (6-8)		SS-2A (6-8)		SS-5 (0-2)		SS-5 (4-6)		SS-6 (0-2)		SS-6 (4-5)	
LAB ID:			L1526897-07		L1526897-09		L1526897-10		L1526897-12		L1526897-13		L1526897-15	
COLLECTION DATE:	NY-UNRES	NY-RESRR	10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015	
Metals Units: mg/kg			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum, Total	--	--	9500		8900		7400		8900		8700		7400	
Antimony, Total	--	--	0.72	U	0.8	J	0.68	U	0.69	U	3.2	J	0.64	J
Arsenic, Total	13	16	6		11		4.4		5.2		12		5.2	
Barium, Total	350	400	50		230		42		56		250		53	
Beryllium, Total	7.2	72	0.38	J	0.4	J	0.31	J	0.36	J	0.42	J	0.32	J
Cadmium, Total	2.5	4.3	0.06	U	0.07	U	0.06	U	0.06	U	0.06	U	0.06	U
Calcium, Total	--	--	3500		2400		12000		4200		16000		1500	
Chromium, Total	--	--	18		23		15		20		22		17	
Cobalt, Total	--	--	6.2		7.2		22		7.6		9.9		7	
Copper, Total	50	270	26		38		24		28		61		89	
Iron, Total	--	--	16000		17000		15000		16000		19000		13000	
Lead, Total	63	400	67		730		14		85		1200		39	
Magnesium, Total	--	--	2300		3400		2700		3400		2900		3000	
Manganese, Total	1600	2000	180		360		300		360		330		320	
Mercury, Total	0.18	0.81	0.04	J	3.1		0.04	J	0.1		2.6		0.22	
Nickel, Total	30	310	20		25		29		26		25		29	
Potassium, Total	--	--	580		1300		890		960		1100		1100	
Selenium, Total	3.9	180	0.27	U	0.29	U	0.25	U	0.26	U	0.26	U	0.24	U
Silver, Total	2	180	0.18	U	0.29	J	0.17	U	0.17	U	0.28	J	0.16	U
Sodium, Total	--	--	110	J	420		180		110	J	270		100	J
Thallium, Total	--	--	0.36	U	0.38	U	0.34	U	0.34	U	0.35	U	0.32	U
Vanadium, Total	--	--	23		25		24		29		25		22	
Zinc, Total	109	10000	58		210		30		66		290		62	

Notes:
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NY-UNRES: New York Unrestricted use Criteria current as of 5/2007
NY-RESRR: New York Restricted-Residential Criteria, New York Restricted use current as of 5/2007
Cells highlighted in yellow indicate concentrations above the NY-UNRES
Cells highlighted in orange indicate concentrations above the NY-RESRR
Cells shaded in grey indicate MDL values above the NY-RESR or NY-UNRES
DUP = designation for duplicate sample
MDL = Maximum Detection Limit
RL = Reporting limit
NA - Not Analyzed
Qual = Laboratory Data Qualifier
For U qualified entries, the MDL is shown
U = not detected at or above the MDL
For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
P - The RPD between the results for the two columns exceeds the method-specified criteria
I - The lower value for the two columns has been reported due to obvious interference
-- = No standard
Results and MDL values are in milligrams per killogram

Table 6 - Volatile Organic Compounds in Groundwater
911 Atlantic Avenue - Brooklyn, NY

SAMPLE ID:		GW-2		TRIP BLANK	
LAB ID:		L1529172-01		L1527452-02	
COLLECTION DATE:	NY-TOGS-GA	10/27/2015		10/27/2015	
Volatile Organic Compounds Units: ug/l		Result	Q	Result	Q
Methylene chloride	5	2.8	U	0.7	U
1,1-Dichloroethane	5	2.8	U	0.7	U
Chloroform	7	2.8	U	0.7	U
Carbon tetrachloride	5	0.54	U	0.13	U
1,2-Dichloropropane	1	0.53	U	0.13	U
Dibromochloromethane	50	0.6	U	0.15	U
1,1,2-Trichloroethane	1	2	U	0.5	U
Tetrachloroethene	5	0.72	U	0.18	U
Chlorobenzene	5	2.8	U	0.7	U
Trichlorofluoromethane	5	2.8	U	0.7	U
1,2-Dichloroethane	0.6	0.53	U	0.13	U
1,1,1-Trichloroethane	5	2.8	U	0.7	U
Bromodichloromethane	50	0.77	U	0.19	U
trans-1,3-Dichloropropene	0.4	0.66	U	0.16	U
cis-1,3-Dichloropropene	0.4	0.58	U	0.14	U
1,3-Dichloropropene, Total	--	0.58	U	0.14	U
1,1-Dichloropropene	5	2.8	U	0.7	U
Bromoform	50	2.6	U	0.65	U
1,1,2,2-Tetrachloroethane	5	0.58	U	0.14	U
Benzene	1	0.64	U	0.16	U
Toluene	5	2.8	U	0.7	U
Ethylbenzene	5	2.8	U	0.7	U
Chloromethane	--	2.8	U	0.7	U
Bromomethane	5	2.8	U	0.7	U
Vinyl chloride	2	0.28	U	0.07	U
Chloroethane	5	2.8	U	0.7	U
1,1-Dichloroethene	5	0.57	U	0.14	U
trans-1,2-Dichloroethene	5	2.8	U	0.7	U
Trichloroethene	5	0.7	U	0.18	U
1,2-Dichlorobenzene	3	2.8	U	0.7	U
1,3-Dichlorobenzene	3	2.8	U	0.7	U
1,4-Dichlorobenzene	3	2.8	U	0.7	U
Methyl tert butyl ether	10	2.8	U	0.7	U
p/m-Xylene	5	2.8	U	0.7	U
o-Xylene	5	2.8	U	0.7	U
Xylenes, Total	--	2.8	U	0.7	U
cis-1,2-Dichloroethene	5	2.8	U	0.7	U
1,2-Dichloroethene, Total	--	2.8	U	0.7	U
Dibromomethane	5	4	U	1	U
1,2,3-Trichloropropane	0.04	2.8	U	0.7	U
Acrylonitrile	5	6	U	1.5	U
Styrene	930	2.8	U	0.7	U
Dichlorodifluoromethane	5	4	U	1	U
Acetone	50	270		1.5	U
Carbon disulfide	60	4	U	1	U
2-Butanone	50	51		1.9	U
Vinyl acetate	--	4	U	1	U
4-Methyl-2-pentanone	--	4	U	1	U
2-Hexanone	50	4	U	1	U
Bromochloromethane	5	2.8	U	0.7	U
2,2-Dichloropropane	5	2.8	U	0.7	U
1,2-Dibromoethane	0.0006	2.6	U	0.65	U
1,3-Dichloropropane	5	2.8	U	0.7	U
1,1,1,2-Tetrachloroethane	5	2.8	U	0.7	U
Bromobenzene	5	2.8	U	0.7	U
n-Butylbenzene	5	2.8	U	0.7	U
sec-Butylbenzene	5	2.8	U	0.7	U
tert-Butylbenzene	5	2.8	U	0.7	U
o-Chlorotoluene	5	2.8	U	0.7	U
p-Chlorotoluene	5	2.8	U	0.7	U
1,2-Dibromo-3-chloropropane	0.04	2.8	U	0.7	U
Hexachlorobutadiene	0.5	2.8	U	0.7	U
Isopropylbenzene	5	2.8	U	0.7	U
p-Isopropyltoluene	5	2.8	U	0.7	U
Naphthalene	10	3	J	0.7	U
n-Propylbenzene	5	2.8	U	0.7	U
1,2,3-Trichlorobenzene	5	2.8	U	0.7	U
1,2,4-Trichlorobenzene	5	2.8	U	0.7	U
1,3,5-Trimethylbenzene	5	2.8	U	0.7	U
1,2,4-Trimethylbenzene	5	2.8	U	0.7	U
1,4-Dioxane	--	160	U	41	U
p-Diethylbenzene	--	2.8	U	0.7	U
p-Ethyltoluene	--	2.8	U	0.7	U
1,2,4,5-Tetramethylbenzene	5	2.6	U	0.65	U
Ethyl ether	--	2.8	U	0.7	U
trans-1,4-Dichloro-2-butene	5	2.8	U	0.7	U
Total VOCs	--	324		--	

Notes:
*NY-TOGS-GA: New York TOGS 111 Groundwater Effluent Limitations criteria reflects all addendum to criteria through June 2004.
NY-AWQS = New York State Ambient Water Quality Standard
Cells highlighted in yellow indicate concentrations above the NY-AWQS
Cells shaded in grey indicate MDL values above the NY-AWQS
DUP = designation for duplicate sample
MDL = Maximum Detection Limit
RL = Reporting limit
NA - Not Analyzed
Qual = Laboratory Data Qualifier
For U qualified entries, the MDL is shown
U = not detected at or above the MDL
For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
-- = No standard
Results and MDL values are in micrograms per liter (µg/L)

Table 7 - Semivolatile Organic Compounds in Groundwater
911 Atlantic Avenue - Brooklyn, NY

SAMPLE ID:		GW-2	
LAB ID:		L1529172-01	
COLLECTION DATE:	NY-TOGS-GA	10/27/2015	
Semivolatile Organic Compounds Units: ug/l		Result	Q
1,2,4-Trichlorobenzene	5	0.21	U
Bis(2-chloroethyl)ether	1	0.41	U
1,2-Dichlorobenzene	3	0.3	U
1,3-Dichlorobenzene	3	0.35	U
1,4-Dichlorobenzene	3	0.32	U
3,3'-Dichlorobenzidine	5	0.48	U
2,4-Dinitrotoluene	5	1	U
2,6-Dinitrotoluene	5	0.89	U
4-Chlorophenyl phenyl ether	--	0.36	U
4-Bromophenyl phenyl ether	--	0.43	U
Bis(2-chloroisopropyl)ether	5	0.6	U
Bis(2-chloroethoxy)methane	5	0.6	U
Hexachlorocyclopentadiene	5	0.58	U
Isophorone	50	0.79	U
Nitrobenzene	0.4	0.4	U
NitrosoDiPhenylAmine(NDPA)/DPA	50	0.34	U
n-Nitrosodi-n-propylamine	--	0.64	U
Bis(2-Ethylhexyl)phthalate	5	2.7	J
Butyl benzyl phthalate	50	1.1	U
Di-n-butylphthalate	50	0.77	U
Di-n-octylphthalate	50	1.2	U
Diethyl phthalate	50	8.2	
Dimethyl phthalate	50	0.65	J
Biphenyl	5	0.24	U
4-Chloroaniline	5	0.84	U
2-Nitroaniline	5	0.96	U
3-Nitroaniline	5	0.67	U
4-Nitroaniline	5	0.83	U
Dibenzofuran	--	0.22	U
1,2,4,5-Tetrachlorobenzene	5	0.36	U
Acetophenone	--	0.43	U
2,4,6-Trichlorophenol	--	0.78	U
P-Chloro-M-Cresol	--	0.54	U
2-Chlorophenol	--	0.58	U
2,4-Dichlorophenol	2	0.56	U
2,4-Dimethylphenol	2	0.58	U
2-Nitrophenol	--	1	U
4-Nitrophenol	--	1.1	U
2,4-Dinitrophenol	2	1.4	U
4,6-Dinitro-o-cresol	--	1.4	U
Phenol	2	0.27	U
2-Methylphenol	--	0.7	U
3-Methylphenol/4-Methylphenol	--	2.1	J
2,4,5-Trichlorophenol	--	0.75	U
Benzoic Acid	--	18	J
Benzyl Alcohol	--	1.3	J
Carbazole	--	0.44	J
Acenaphthene	20	0.18	U
2-Chloronaphthalene	10	0.18	U
Fluoranthene	50	0.19	U
Hexachlorobutadiene	0.5	0.18	U
Naphthalene	10	1.9	
Benzo(a)anthracene	0.002	0.08	U
Benzo(a)pyrene	0	0.2	U
Benzo(b)fluoranthene	0.002	0.08	U
Benzo(k)fluoranthene	0.002	0.21	U
Chrysene	0.002	0.19	U
Acenaphthylene	--	0.23	J
Anthracene	50	0.18	U
Benzo(ghi)perylene	--	0.21	U
Fluorene	50	0.18	U
Phenanthrene	50	0.4	J
Dibenzo(a,h)anthracene	--	0.2	U
Indeno(1,2,3-cd)Pyrene	0.002	0.2	U
Pyrene	50	0.2	U
2-Methylnaphthalene	--	0.67	J
Pentachlorophenol	2	1.1	U
Hexachlorobenzene	0.04	0.16	U
Hexachloroethane	5	0.15	U
Total SVOCs	--	36.9	-

Notes:
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NY-AWQS = New York State Ambient Water Quality Standard
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MDL = Maximum Detection Limit
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For U qualified entries, the MDL is shown
U = not detected at or above the MDL
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J = estimated value, indicating the detected value is below the RL, but above the MDL
-- = No standard
Results and MDL values are in micrograms per liter (µg/L)

Table 8 - Pesticides and Polychlorinated Biphenyls in Groundwater
911 Atlantic Avenue - Brooklyn, NY

SAMPLE ID:	NY-TOGS-GA	GW-2	
LAB ID:		L1529172-01	
COLLECTION DATE:		10/27/2015	
Pesticides Units: ug/l		Result	Q
Delta-BHC	0.04	0.023	U
Lindane	0.05	0.022	U
Alpha-BHC	0.01	0.022	U
Beta-BHC	0.04	0.028	U
Heptachlor	0.04	0.016	U
Aldrin	0	0.011	U
Heptachlor epoxide	0.03	0.021	U
Endrin	0	0.021	U
Endrin ketone	5	0.024	U
Dieldrin	0.004	0.021	U
4,4'-DDE	0.2	0.019	U
4,4'-DDD	0.3	0.023	U
4,4'-DDT	0.2	0.022	U
Endosulfan I	--	0.017	U
Endosulfan II	--	0.026	U
Endosulfan sulfate	--	0.024	U
Methoxychlor	35	0.034	U
Toxaphene	0.06	0.314	U
cis-Chlordane	--	0.033	U
trans-Chlordane	--	0.031	U
Chlordane	0.05	0.232	U
Polychlorinated Biphenyls			
Aroclor 1016	0.09	0.055	U
Aroclor 1221	0.09	0.053	U
Aroclor 1232	0.09	0.031	U
Aroclor 1242	0.09	0.06	U
Aroclor 1248	0.09	0.051	U
Aroclor 1254	0.09	0.034	U
Aroclor 1260	0.09	0.032	U
Aroclor 1262	0.09	0.029	U
Aroclor 1268	0.09	0.038	U
PCBs, Total	--	0.029	U

Notes:
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NY-AWQS = New York State Ambient Water Quality Standard
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DUP = designation for duplicate sample
MDL = Maximum Detection Limit
RL = Reporting limit
NA - Not Analyzed
Qual = Laboratory Data Qualifier
For U qualified entries, the MDL is shown
U = not detected at or above the MDL
For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
-- = No standard
Results and MDL values are in micrograms per liter (µg/L)

Table 9 - Total and Dissolved Metals in Groundwater
911 Atlantic Avenue - Brooklyn, NY

SAMPLE ID:	NY-TOGS-GA	GW-2	
LAB ID:		L1529172-01	
COLLECTION DATE:		10/27/2015	
Dissolved Metals **Units: ug/l**		**Result**	**Q**
Aluminum, Dissolved	2000	5340	
Antimony, Dissolved	6	1.1	J
Arsenic, Dissolved	50	2.3	
Barium, Dissolved	2000	403.2	
Beryllium, Dissolved	3	0.2	J
Cadmium, Dissolved	10	0.4	
Calcium, Dissolved	--	210000	
Chromium, Dissolved	100	74.5	
Cobalt, Dissolved	--	78.6	
Copper, Dissolved	1000	21.3	
Iron, Dissolved	600	40400	
Lead, Dissolved	50	7.9	
Magnesium, Dissolved	35000	30600	
Manganese, Dissolved	600	15750	
Mercury, Dissolved	1.4	0.06	U
Nickel, Dissolved	200	312.2	
Potassium, Dissolved	--	11200	
Selenium, Dissolved	20	1	J
Silver, Dissolved	100	0.1	U
Sodium, Dissolved	--	84800	
Thallium, Dissolved	0.5	0.1	J
Vanadium, Dissolved	--	9.6	
Zinc, Dissolved	5000	113.3	
Total Metals			
Aluminum, Total	2000	7180	
Antimony, Total	6	0.4	J
Arsenic, Total	50	4.8	
Barium, Total	2000	475.2	
Beryllium, Total	3	0.6	
Cadmium, Total	10	0.6	
Calcium, Total	--	204000	
Chromium, Total	100	119	
Cobalt, Total	--	89.3	
Copper, Total	1000	56.4	
Iron, Total	600	65900	
Lead, Total	50	25	
Magnesium, Total	35000	38800	
Manganese, Total	600	13680	
Mercury, Total	1.4	0.06	U
Nickel, Total	200	371.3	
Potassium, Total	--	13200	
Selenium, Total	20	3	J
Silver, Total	100	0.2	J
Sodium, Total	--	81000	
Thallium, Total	0.5	0.2	J
Vanadium, Total	--	25.5	
Zinc, Total	5000	152.3	

Notes:
*NY-TOGS-GA: New York TOGS 111 Groundwater Effluent Limitations criteria reflects all addendum to criteria through June 2004.
NY-AWQS = New York State Ambient Water Quality Standard
Cells highlighted in yellow indicate concentrations above the NY-AWQS
Cells shaded in grey indicate MDL values above the NY-AWQS
DUP = designation for duplicate sample
MDL = Maximum Detection Limit
RL = Reporting limit
NA - Not Analyzed
Qual = Laboratory Data Qualifier
For U qualified entries, the MDL is shown
U = not detected at or above the MDL
For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
-- = No standard
Results and MDL values are in micrograms per liter (µg/L)

APPENDIX A
BORING LOGS

Appendix 1 - Lithologic Logs
911 Atlantic Avenue - Brooklyn, NY

TENEN ENVIRONMENTAL			
		Boring No.	**SS-2A**
		Sheet:	**1 OF 1**
Site:	**911 Atlantic Avenue**	**Drilling Method:**	Geoprobe
Date:	**10/21/15**	**Soil Sampling Method:**	Acetate liners
Weather:	**Clear, Mid 60 deg-F**		
Observer:	**Claire Zaccheo, Sara Babyatsky**	**Driller :**	Zebra Environmental

Depth (feet)	PID Reading (ppm)	Soil Samples	Soil Description
1 2 3 4 5	0.0		0-1: Concrete and Asphalt 1-4: FILL (dark silty sand, cinders, pebbles) 4-5: Brown silty sand with cobbles.
6 7 8 9 10	0.0	SS-2A(6-8)	5-8: Brown sandy silt, some grey silt. 8-10: Brown silt. EOB - 10ft.
11 12 13 14 15			

Notes:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
PID - Photoionization Detector
SAA - Same as Above
NR - not recorded

Appendix 1 - Lithologic Logs
911 Atlantic Avenue - Brooklyn, NY

TENEN ENVIRONMENTAL			
		Boring No.	**SS-3A**
		Sheet:	**1 OF 1**
Site:	**911 Atlantic Avenue**	**Drilling Method:**	Geoprobe
Date:	**10/21/15**	**Soil Sampling Method:**	Acetate liners
Weather:	**Clear, Mid 60 deg-F**		
Observer:	**Claire Zaccheo, Sara Babyatsky**	**Driller :**	Zebra Environmental

Depth (feet)	PID Reading (ppm)	Soil Samples	Soil Description
1 2 3 4 5	0.0		0-1: Concrete 1-5: FILL (dark grey medium grain sand with pebbles)
6 7 8 9 10	0.0 0.0	SS-3A(6-8)	5-6: Brown sandy silt 6-7: Black silt 7-10: Brown silty clay EOB - 10ft.
11 12 13 14 15			

Notes:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
PID - Photoionization Detector
SAA - Same as Above
NR - not recorded

Appendix 1 - Lithologic Logs
911 Atlantic Avenue - Brooklyn, NY

TENEN ENVIRONMENTAL		Boring No.	SS-4
		Sheet:	1 OF 1
Site:	911 Atlantic Avenue	Drilling Method:	Geoprobe
Date:	10/21/15	Soil Sampling Method:	Acetate liners
Weather:	Clear, Mid 60 deg-F		
Observer:	Claire Zaccheo, Sara Babyatsky	Driller :	Zebra Environmental

Depth (feet)	PID Reading (ppm)	Soil Samples	Soil Description
1	3.4	SS-4(0-2)	0-1: Concrete and asphalt 1-5: FILL (brown silt, brick fragments, sand, asphalt)
2			
3	0.0		
4	0.2		
5			
6	0.0	SS-4(6-8)	5-10: Brown sandy silt with pebbles
7			
8			
9			
10			
11			10-15: Dark brown silt EOB - 15ft.
12			
13			
14			
15			

Notes:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
PID - Photoionization Detector
SAA - Same as Above
NR - not recorded

Appendix 1 - Lithologic Logs
911 Atlantic Avenue - Brooklyn, NY

TENEN ENVIRONMENTAL			
		Boring No.	**SS-5**
		Sheet:	**1 OF 1**
Site:	**911 Atlantic Avenue**	**Drilling Method:**	Geoprobe
Date:	**10/21/15**	**Soil Sampling Method:**	Acetate liners
Weather:	**Clear, Mid 60 deg-F**		
Observer:	**Claire Zaccheo, Sara Babyatsky**	**Driller :**	Zebra Environmental

Depth (feet)	PID Reading (ppm)	Soil Samples	Soil Description
1			0-2: FILL (brick fragments, fine to medium grain sand, pebbles and cobbles).
2			
3		SS-5(2-4)	2-5: Fine to medium grain sand, some silt.
4			
5		SS-5(4-6)	
6			5-6: SAA
7			
8			EOB - 6ft.
9			
10			
11			
12			
13			
14			
15			

Notes:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
PID - Photoionization Detector
SAA - Same as Above
NR - not recorded

Appendix 1 - Lithologic Logs
911 Atlantic Avenue - Brooklyn, NY

TENEN ENVIRONMENTAL		Boring No.	SS-6
		Sheet:	1 OF 1
Site:	911 Atlantic Avenue	Drilling Method:	Geoprobe
Date:	10/21/15	Soil Sampling Method:	Acetate liners
Weather:	Clear, Mid 60 deg-F		
Observer:	Claire Zaccheo, Sara Babyatsky	Driller :	Zebra Environmental

Depth (feet)	PID Reading (ppm)	Soil Samples	Soil Description
1			0-2: FILL (brick fragments, brown sand, pebbles).
2			2-5: Brown fine to medium grain sand.
3			EOB - 5ft.
4		SS-6 (4-5)	
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

Notes:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
PID - Photoionization Detector
SAA - Same as Above
NR - not recorded

Appendix 1 - Lithologic Logs
911 Atlantic Avenue - Brooklyn, NY

TENEN ENVIRONMENTAL

		Boring No.	**SS-7**
		Sheet:	**1 OF 1**
Site:	**911 Atlantic Avenue**	**Drilling Method:**	Geoprobe
Date:	**10/21/15**	**Soil Sampling Method:**	Acetate liners
Weather:	**Clear, Mid 60 deg-F**		
Observer:	**Claire Zaccheo, Sara Babyatsky**	**Driller :**	Zebra Environmental

Depth (feet)	PID Reading (ppm)	Soil Samples	Soil Description
1 2 3 4 5	0.0	SS-7(0-2)	0-1: Concrete and asphalt 1-5: FILL (brown silt with brick fragments, pebbles and cobbles)
6 7 8 9 10	0.0	SS-7(9-11)	5-10: Brown silty sand with cobbles
11 12 13 14 15	0.0		10-12: Light brown clayey silt 12-15: Brown fine to medium grain sand, some gravel EOB - 15ft.

Notes:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
PID - Photoionization Detector
SAA - Same as Above
NR - not recorded

Appendix 1 - Lithologic Logs
911 Atlantic Avenue - Brooklyn, NY

TENEN ENVIRONMENTAL			
		Boring No.	**SS-7**
		Sheet:	**1 OF 1**
Site:	**911 Atlantic Avenue**	**Drilling Method:**	Geoprobe
Date:	**10/21/15**	**Soil Sampling Method:**	Acetate liners
Weather:	**Clear, Mid 60 deg-F**		
Observer:	**Claire Zaccheo, Sara Babyatsky**	**Driller :**	Zebra Environmental

Depth (feet)	PID Reading (ppm)	Soil Samples	Soil Description
1 2 3 4 5	0.0	SS-8(0-2)	0-1: Concrete and asphalt 1-5: FILL (brown silt, brick fragments, pebbles, cobbles, some sand)
6 7 8 9 10	0..0		5-10: FILL (SAA)
11 12 13 14 15	0.0	SS-8(11-13)	10-15: Brown silt with medium grain sand and cobbles EOB - 15ft.

Notes:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
PID - Photoionization Detector
SAA - Same as Above
NR - not recorded

APPENDIX B
GROUNDWATER SAMPLING LOGS

Appendix B - Groundwater Purge Logs
911 Atlantic Avenue - Brooklyn, NY

GROUNDWATER SAMPLING LOG

Site Name	911-917 Atlantic Avenue	Date	10/27/15
Well No.	GW-2	Sample ID	GW-2

Well Diameter	2 inches	Depth to Water	68.58 ft-bg
Well Screen Interval	20 ft-bg	TOC Elevation	NR
Headspace PID	0.1 ppm	Elevation	NR
Weather	Sunny, 50 degrees F		

Pump	Bladder
Water Quality Meter	Horiba U52
Initial Depth of Pump Intake	72 ft-bg
Final Depth of Pump Intake	75 ft-bg
Total Volume Purged	~ 2 gallons

Time	Temperature deg-C	pH SU	ORP mV	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
0944	15.5	4.7	100	260	13.56	0.0
0954	14.07	5.15	-74	0.0	0.89	1.11
1020	14.02	5.07	-211	0.0	0.0	1.12
1029	13.91	5.06	-189	0.0	0.0	1.13
1104	13.96	6.01	-120	578	1.91	0.595

Notes: well ran dry several times during sampling. The 1104 reading is post-purge.

APPENDIX C
PREVIOUS STUDIES

PHASE I ENVIRONMENTAL SITE ASSESSMENT

911-917 Atlantic Avenue
Brooklyn, New York
Tax Block 2018, Lots 62, 63 and 64

Prepared for:
The Hudson Companies, Incorporated
826 Broadway, 11th Floor
New York, NY 10003

Prepared by:
TENEN ENVIRONMENTAL
Tenen Environmental, LLC
121 West 27th Street, Suite 1004
New York, NY 10001

March 2015

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EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with ASTM E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The Phase I ESA was performed by Mr. Matthew Carroll of Tenen Environmental. LLC (Tenen), an Environmental Professional as defined in 40 CFR 312. The Site reconnaissance was conducted by Ms. Kristen Meisner on December 23, 2014. The purpose of this ESA was to assist the client in developing information to identify recognized environmental conditions (RECs) in connection with the Site. An REC means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

The Site, located at 911-917 Atlantic Avenue, Brooklyn, New York, is an irregular-shaped parcel of approximately 13,952 square feet, which lies along the north side of Atlantic Avenue between St. James Place and Grand Avenue. The Site has approximately 100.5 feet of frontage along Atlantic Avenue. The Site depth ranges from approximately 100 feet (Lots 62 and 63) to 138 feet (Lot 64). Other addresses associated with the Site are 907-911 Atlantic Avenue, 911 (Rear) Atlantic Avenue and 915 (Rear) Atlantic Avenue. The tax map designation of the property is Block 2018, Lots 62, 63, and 64. The property is currently occupied by three commercial buildings. Lot 64, the westernmost part of the Site, contains a three-story building with detached storage facilities. A four-story building with a cellar (Lot 63) is currently used as commercial space and residences. The two-story commercial building at 917 Atlantic Avenue (Lot 62) is occupied by a wire cutting company.

The site and surrounding areas have been developed urban land since at least 1887. The Site was initially developed with a two–story building with a carpentry shop and clothing manufacture on Lot 64 and residential buildings with stores on the remaining lots. Subsequent uses of Lot 64 included bookbinding, (including a printing area shown in the eastern part of the Site) (1915 map), manufacturing (1938 and 1950 maps), an electrical company (1969–1988 maps), and auto repair (1989–2007 maps). A small two-story building on the eastern part of Lot 64 with notations for "auto" and storage" is shown on maps dated 1938 through 2007. Lot 63 is shown with residential and unspecified commercial uses on all maps; however, the city directory includes a 1928 listing for an auto radiator works, and listings indicating sale and/or storage of auto parts between 1934 and 1992. Non-residential uses of Lot 62 include wagon storage (1904-1915, and auto repair (1950 through 2007). Based historic information and the Site reconnaissance, a paint spray booth was also located on this lot.

The lots to the north have been primarily residential since at least 1887. The south adjacent properties were initially developed with dwellings and stores, and, by 1934, with commercial and industrial uses, primarily auto-related. Later uses include plumbing (1960-1976), sewer cleaning (1960), packing (1949-1985), garage (1934), auto repair (1945-1992), refrigerator manufacture (1997), mechanical company (1992-1997), industrial laundry (1960), and furniture refinishing (1970-1973). By 1887, the east adjacent lot had been developed with a dwelling and store. Prior to 1950, an auto repair shop began operations on this lot, continuing through at least 2007. Additional uses, noted in the city directories, include oil and electrical companies (1934), welding (1940), woodworking (2005, 2013), restaurant supply (2005-2013), and an HVAC contractor (2008). The west adjacent property was vacant until prior to 1938, when it was developed with a large building used for tire service and repair; the Sanborn maps through 1986 show a 1,000-gallon underground gasoline tank in the western part of the building. Later maps are illegible and it is unknown if the tank was present after that date. Other uses of this property have included an auto service station/garage (1928), auto salvage (1940), canvas products (1945) photography lab (1949),

plastics company (1960), roofing contractor (1980-2013), ceramics (1985-1997), and building supply (1985 and 2013).

The earlier maps show the area already developed with dwellings, stores and some institutional uses, and, by 1938, with increased industrial and vehicle-related uses. These included a vulcanizing operation to the west on the Site block (later replaced by a tinsmith, and, subsequently, by a tire service), a commercial garage to the north and a large service station/repair shop (with two gasoline tanks and a paint spray booth) on the east adjacent block. Maps dated 1950 through 1979 show additional auto repair shops to the east on the Site block, and auto repair and a filling station south of the Site along Atlantic Avenue. While uses of individual lots may have changed, the nature of the surrounding area remained relatively constant through 2007, the date of the last available map.

Regarding the site and adjacent/surrounding properties, the results of the city directory, historic topographic map and aerial photograph review are generally consistent with the usage depicted on the historic Sanborn maps, with the city directory listings providing additional information on Site and adjacent property uses. A review of the historic information identified a gasoline storage tank on the west adjacent lot and historic uses of the Site and adjacent and surrounding properties which likely involved the use and disposal of hazardous materials, including paints, solvents, metals and petroleum products. These historic uses are considered RECs.

The database search indicated numerous listings of properties within the standard search radii on multiple regulatory databases. Many of these listings are located a significant distance from and/or downgradient of the Site. All three Site lots are listed on the EDR E-DESIGNATION database, indicating that E-designation E-138 for Underground Tanks Testing Protocol (i.e., hazardous materials) and window-wall attenuation (i.e., noise) has been placed on the Site. The listing of a property on the E-DESIGNATION database is not considered a REC. Two offsite RECs, the listings for 921 and 923 Atlantic Avenue on the US Hist Auto Stat database, were identified based upon a review of the regulatory database.

Tenen has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM E 1527-13 of 911-917 Atlantic Avenue in Brooklyn, New York (the Property). Any exceptions to, or deletions or deviations from, this practice are described in Section 1.4 of this report. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the property, with the exception of the following:

- historic use of the Site for auto repair, printing, and manufacturing
- historic uses of adjacent and surrounding properties which likely involved the use and disposal of hazardous materials, including paints, solvents, metals and petroleum products
- a historic, potentially existing, underground gasoline storage tank on the property directly west of the Site

1.0 INTRODUCTION

1.1 Site Description

The Site, located at 911-917 Atlantic Avenue, Brooklyn, New York, is an irregular-shaped parcel of approximately 13,952 square feet, which lies along the north side of Atlantic Avenue between St. James Place and Grand Avenue. The Site has approximately 100.5 feet of frontage along Atlantic Avenue and is approximately 100 feet (Lots 62 and 63) to 138 feet deep (Lot 64). Other addresses associated with the Site are 907-911 Atlantic Avenue, 911 Rear Atlantic Avenue and 915 Rear Atlantic Avenue. The tax map designation of the property is Block 2018, Lots 62, 63, and 64. Lot 64, the westernmost part of the Site, contains a three-story building with a cellar along with associated detached storage facilities. A four-story building with a cellar (Lot 63) is currently used as storage/commercial space on the first floor, with one residential unit located on each of the three aboveground floors. A two-story building with cellar is located at 917 Atlantic Avenue (Lot 62) and is currently being used for commercial space with machinery used for wire cutting.

All Site lots are zoned R7-A and Lot 64 is also zoned R6-B, designations which denote medium density areas with high lot coverage buildings. The Site also has a C2-4 commercial overlay, which allows for commercial uses that serve local residential needs. A Site location figure is included in Appendix A and photographs from the Site reconnaissance are included in Appendix B.

1.2 Scope of Services

This Phase I Environmental Site Assessment (ESA) was performed in accordance with ASTM E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify recognized environmental conditions (RECs) in connection with the Site. This was undertaken through user-provided information; a regulatory database review; historical and physical records review; interviews; and a visual non-invasive reconnaissance of the Site and adjoining properties. Limitations, ASTM deviations, and significant data gaps are evident from reviewing the applicable scope of services and the report text.

1.3 Standard of Care

This ESA was performed in accordance with ASTM E1527-13 and generally accepted practices used in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

Phase I ESAs, such as the one performed at this Site, are of limited scope, are noninvasive and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the Site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records, some of which may document environmental concerns, were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property and the performance of a Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the Site or otherwise uses the report for any other

purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment.

1.4 Additional Scope Limitations, ASTM Deviations and Significant Data Gaps

This ESA did not include subsurface or other invasive assessments, business environmental risk evaluations or other services not particularly identified and discussed herein. Reasonable attempts were made to obtain information within the scope and time constraints; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder.

No significant data gaps were identified in the performance of this Phase I ESA.

The significance of these limitations and missing information, if any, with respect to the findings of this Phase I ESA has been evaluated and it has been determined that no significant data gap is present. However, it should be recognized that an evaluation of the significance of these data gaps is based on the information available at the time of report issuance and an evaluation of information received after the report issuance date may result in revisions to the findings of this Phase I ESA.

This report represents the final document; its text may not be altered after final issuance. Findings in this report are based upon the Site's current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances or petroleum products may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after Site renovation or development). Further, the contents of this Phase I ESA are not to be construed as legal interpretation or advice.

1.5 Reliance

This Phase I ESA report is prepared for the exclusive use and reliance of The Hudson Companies. Use or reliance by any other party is prohibited without the written authorization of the above entities. The User has requested this Phase I ESA as part of due diligence in order to qualify for Landowner Liability Protections (LLPs) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

Continued viability of this report is subject to ASTM E1527-13 Sections 4.6 and 4.8. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E1527-13.

1.6 Client-Provided Information

Mr. Joseph Kohl-Riggs, a representative of the User, completed a Phase I ESA User Questionnaire to provide the following information relative to the Site. The User Questionnaire is provided in Appendix E.

1.6.1 Knowledge of Environmental Liens or Activity and Use Limitations (AULs)

The User is not aware of any environmental liens filed or recorded under federal, state, or local law.

1.6.2 Specialized Knowledge or Experience

The User does not have any specialized knowledge or experience related to the Site or nearby properties, such as knowledge of the chemicals or processes used by the current or former occupants of the Site or any adjoining property.

1.6.3 Significantly Lower Purchase Price

Based on information obtained from the User, the purchase price for the Site reasonably reflected the fair market value of the property.

1.6.4 Commonly Known or Reasonably Ascertainable Information

The User is not aware of any commonly known or reasonably ascertainable information about the Site that may help to identify conditions indicative of releases or threatened releases.

1.6.5 Obvious Indicators

The User is not aware of any obvious indicators that point to the presence or likely presence of contamination at the Site.

1.6.6 Proceedings Involving the Site

The User is not aware of any pending, threatened, or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability in connection with the Site.

2.0 PHYSICAL SETTING

According to the Brooklyn, New York Quadrangle USGS Topographic Map (2013), included in Figure 1 in Appendix A, the property lies at an elevation of approximately 82 feet above the National Geodetic Vertical Datum of 1929 (an approximation of mean sea level). The surface topography at the Site and surrounding area is relatively flat.

Groundwater is assumed to be between 51 and 75 feet below the ground surface. Groundwater flow is assumed to be locally east. Groundwater is not used as a source of potable water in this area of Brooklyn. The Gowanus Canal is the nearest surface water body, located roughly 6,800 feet to the west of the Site.
The Federal Emergency Management Agency (FEMA) flood insurance rate map for the Site (Map Number 3604970212F) indicates that the Site is located outside Zone X, the 0.2% annual chance (or 500 year) floodplain. The FEMA map is not available due to the fact that Flood Insurance Rate Map (FIRM) Panels are not printed when there is no special flood hazard area present throughout the panel.

3.0 HISTORICAL USE INFORMATION

The following historical sources were reviewed: Sanborn fire insurance maps, aerial photographs, topographic maps and city directories. Copies of these resources are included in Appendix C. Additionally, records from New York City agencies were reviewed and copies of these documents are included in Appendix E. A summary of the historical review is included in Section 3.9.

3.1 Sanborn Fire Insurance Maps

Maps were available for the following years: 1887, 1888, 1904, 1906, 1915, 1938, 1950, 1969, 1977, 1979, 1980 1981, 1982, 1985, 1986, 1987, 1988, 1989, 1991, 1992, 1993, 1994, 1995, 1996, 2001, 2002, 2003, 2004, 2005, 2006, and 2007. Please note that adjacent/surrounding properties south of the Site are not shown in maps dated 1906 through 1977. The results of the Sanborn map review are provided below

Sanborn Fire Insurance Maps

Map Date	Location Covered	Description
1887, 1888	Site	The westernmost Site lot (Lot 64 – 911-917 Atlantic Avenue) is shown with a two-story building used as a carpentry shop; the remaining lots are developed with four-story dwellings with stores on the first floor. A shed is shown behind the building on Lot 63 (915 Atlantic Avenue)
	Adjacent	The vacant rear portions of the dwelling lots along Lefferts Place border the Site to the north with a dwelling with a store to the east. The lot to the west is vacant. The 1888 map shows the areas to the south with dwellings, some with stores.
	Surrounding	The surrounding area is developed with dwellings, with many of the buildings along Atlantic Avenue with first floor stores. A "hothouse" is shown on the east adjacent block. The 1888 map shows the area south of the Site as primarily residential.
1904, 1904, 1915	Site	The 1904 map shows Lot 64 with a two-story building with a carpenter shop on the first floor and ladies wear manufacturing on the second; in 1915, this lot is occupied by a bookbinding company. The 1915 map also shows building material storage in the northern portion of Lot 64 and printing and storage on the eastern part of the lot, north of Lot 63. The first floor of the building on Lot 62 is shown with first floor wagon storage.
	Adjacent	Uses to the north, east and west are the same as the prior map. Uses to the south are not shown on the 1904 and 1915 maps, but are shown as residential on the 1906 map.
	Surrounding	Similar to prior maps. A large theater along Fulton Street and several coal sheds are shown on the north adjacent block. The 1906 map shows the area to the south as primarily residential.
1938	Site	Lot 64 is occupied by a three-story building with a store on the first floor and manufacturing above; a shed is shown behind the building. The eastern part of Lot 64 (north of Lot 63) is shown with a building marked "auto" with second floor storage. The remaining lots are shown with four-story buildings with stores.

Map Date	Location Covered	Description
	Adjacent	The area north of the Site is shown with dwellings. A dwelling with a store lies to the east and a large building used for tire service and repair is shown to the west; a 1,000-gallon underground gasoline storage tank is depicted below the west adjacent building along Atlantic Avenue.
	Surrounding	Similar to prior maps, with increasing vehicle-related uses. A lot with four gasoline tanks and one oil tank is shown on the northwest corner of Atlantic and Grand Avenues (East of the site on the Site block). A rubber vulcanizing operation is depicted to the west of the Site, also on the Site block. The theater to the north is shown as a commercial garage and a large auto service station and repair shop (with two gasoline tanks and a paint spray booth) is shown on the east adjacent block.
1950	Site	Same as prior map, except that Lot 62 is occupied by an auto fender works.
	Adjacent	Uses to the north are the same as prior map. An auto repair shop is shown to the east and the use of the former bookbinder/tire repair building to the west is shown as unspecified manufacturing. The gasoline tank is still shown.
	Surrounding	Additional auto-related uses (wheel alignment, tire service and seat cover manufacture) lie to the east on the site block. The vulcanizing operation to the west is shown as a tinsmith. The auto repair shop on the east adjacent block is shown as manufacturing; the gasoline tanks are still shown.
1969	Site	The Lot 64 building is occupied by an electrical company. Uses of the other lots are as shown in the prior map.
	Adjacent	Same as prior map. The western part of the west adjacent building is shown with a garage with the prior gasoline tank also shown.
	Surrounding	Similar to prior map. Additional auto repair shops are shown to the east on the Site block, along Atlantic Avenue; the filling station is shown, but the gasoline tanks are not depicted. The prior vulcanizing/tinsmith to the west on the Site block is shown as “tire sales”. The former theater/garage on the north adjacent block has been replaced by a post office.
1977, 1979	Site	No change from prior map.
	Adjacent	Same as prior map, except that south adjacent uses are shown and include stores, furniture refinishing, plumbing and auto repair.
	Surrounding	Similar to prior map. Portions of the north adjacent block along Fulton Street are developed with parking and a city-run day care center. Uses on the south adjacent block, shown on the 1979 map, include auto repair, auto sales and service, an auto parts wholesaler, and a filling station.
1980, 1981, 1982, 1985, 1986, 1987, 1988, 1989	Site	Same as prior maps, except that Lot 64 is shown as an auto repair facility in the 1989 map.

Map Date	Location Covered	Description
	Adjacent	Similar to prior maps except that the 1987 and later maps show the building to the west as unspecified manufacturing. The area of the former tank is not legible and it is unclear if the tank is still shown.
	Surrounding	Similar to prior maps.
1991, 1992, 1993, 1994, 1995, 1996	Site	Same as prior map.
	Adjacent	No change from prior map.
	Surrounding	Similar to prior map.
2001, 2002, 2003, 2004, 2005, 2006, 2007	Site	Same as prior map.
	Adjacent	No change from prior map.
	Surrounding	Similar to prior map.

A review of the historic Sanborn maps indicates past use of the Site for auto repair, printing and unspecified manufacturing. Historic uses of the adjacent properties include auto repair, a garage (with an underground gasoline storage tank), furniture refinishing and manufacturing, These historic uses of the Site and adjacent/surrounding properties likely involved the use and disposal of hazardous materials, including paints, solvents, metals and petroleum products and are considered potential RECs.

3.2 Historical Topographic Maps

Tenen reviewed the topographic maps from 1900, 1924, 1947, 1956, 1967, 1979 and 1995. The Site and surrounding areas are shown as developed urban land since at least 1900. No specific uses can be determined.

No RECs were identified based upon the review of historic topographic maps.

3.3 Historical Aerial Photographs

Tenen reviewed aerial photographs from 1924, 1944, 1951, 1954, 1961, 1966, 1974, 1976, 1984, 1994, 2006, 2009 and 2011. The Site appears to have been developed since at least 1924; adjacent and surrounding areas similarly appear to be developed at this time. No specific uses can be determined.

No RECs were identified based upon the review of historic aerial photographs.

3.4 City Directories

Available city directory listings were provided by EDR for the following years: 1928, 1934, 1940, 1945, 1949, 1960, 1965, 1970, 1973, 1976, 1980, 1985, 1992, 1997, 2000, 2005, 2008 and 2013.

Site. Addresses associated with the Site are listed in all city directories. Information obtained from the Site city directory listings is summarized below.

911 Atlantic Avenue (Lot 64)

offices:	1928
electrical supply co.:	1934, 1940, 1945, 1949, 1960, 1965, 1970, 1973, 1976, 1980, 1982, 1997, 2005, 2008, 2013
Steampoint Corp:	1940, 1945, 1949, 1960
realty company:	2005, 2008, 2013

915 Atlantic Avenue (Lot 63)

auto radiator works:	1928
auto parts:	1934, 1940, 1945, 1949, 1960, 1965, 1970, 1973, 1976, 1980, 1985, 1992
residential:	1934, 1992, 1997

917 Atlantic Avenue (Lot 62)

commercial:	1928, 1934
residential:	1934, 2005
auto repair:	1934, 1945, 1949, 1960, 1965, 1970, 1976, 1985, 1992, 1997
auto claims adjustment:	1949
business center:	2008
auto/truck supplies:	1934, 1940

Adjoining Properties. City directory listings for the lots adjacent to the Site are summarized below.

28 Lefferts Place (north adjacent property)

residential:	1934-2005

30 Lefferts Place (north adjacent property)

residential:	1934-2005

34 Lefferts Place (north adjacent property)

residential:	1934-2005

36 Lefferts Place (north adjacent property)

residential:	1934-2005

38 Lefferts Place (northeast adjacent property)

residential:	1934-2005

948 Atlantic Avenue (south/southwest adjacent property)

residential:	1934, 1940, 1949, 1960, 1965, 1970, 1976
industrial laundry:	1960
furniture refinishing:	1970, 1973

950 Atlantic Avenue (south adjacent property)

auto radiator works:	1934
residential:	1934, 1960, 1965, 1970, 1973, 1976, 1997, 2005
transportation company:	1973
emblem manufacturing:	1949

952 Atlantic Avenue (south adjacent property)

residential:	1934, 1940, 1949, 1960, 1965, 1970, 1976, 1985, 1997, 2005
wheel and rim company:	1945
alarm company:	1960, 1965, 1970, 1973
restaurant supply:	2005

954 Atlantic Avenue (south adjacent property)

garage:	1934
residential:	1949, 1960, 1965, 1992, 1997, 2005
olive oil distribution:	1940, 1945
packing company:	1949, 1960, 1965, 1970, 1973, 1976, 1985
mechanical company:	1992, 1997
locksmith:	1992
alarm company:	1992

956 Atlantic Avenue (south adjacent property)

bicycle repair:	1949
residential:	1934, 1960, 1965, 1970, 1992, 1997, 2005
plumber:	1960, 1965, 1970, 1973, 1976
exterminating company:	1960, 1965, 1970, 1973, 1976
sewer cleaning company:	1960
contractor:	1970, 1973, 1976
mechanical company:	1985
commercial (unspecified)	2005

958 Atlantic Avenue (south adjacent property)

commercial (unspecified)	1934
auto spring company	1940, 1945, 1949, 1960, 1965, 1973, 1976
refrigerator manufacture:	1997
lift parts:	1976
warehouse:	2005

919 Atlantic Avenue (east adjacent property)

residential:	1928
oil company:	1934
electrical company:	1934
auto repair:	1940, 1949, 1960, 1965, 1973, 1976, 1985, 1992
welder:	1940
woodworking:	2005, 2013
restaurant supply:	2005, 2008, 2013
HVAC company:	2008

905 Atlantic Avenue (west adjacent property)

auto service station:	1928
auto repair:	1928, 1934
garage:	1928
auto salvage:	1940
canvas products:	1945
photography lab:	1949
plastics company:	1960
auto accessories:	1965, 1970, 1973

commercial (unspecified):	1973, 1976, 2013
roofing contractor:	1980, 1985, 1992, 1997, 2005, 2008, 2013
valve products:	1973
ceramics:	1985, 1992, 1997
building supply:	1985, 2013
demolition contractor:	2008

The city directory listings for the Site indicate historic auto repair operations between 1934 and 1997. Listings for the adjacent properties indicate historic auto repair operations on the east adjacent lot between 1940 and 1992 and on the west adjacent property in 1928-1934. One 1928 listing also indicates use of the west adjacent lot as a service station. Other offsite uses of the adjacent properties include woodworking, furniture refinishing, industrial laundry, photo processing, and welding. These uses of the Site and adjacent properties may have involved the use and disposal of hazardous materials, including paints, solvents, metals and petroleum products. These historic uses are considered potential RECs.

3.5 New York City Department of Buildings

Information obtained from the New York City Department of Buildings (NYCDOB) Building Information System (BIS) was reviewed. The NYCDOB Property Profile Overviews indicate that E-designations for hazardous materials and noise have been placed on all three Site lots. The information provided on the one available Certificate of Occupancy (C of O) for Lot 64, dated in the early 1900s, was illegible. Information contained on C of Os for Lots 62 and 63 is summarized below.

Lot 62
C of O dated 4/4/38 - references a four-story building with a cellar and store on the first floor and dwellings on the second floor; floors three and four are to remain vacant.

Temporary C of O dated 1947 (exact date illegible) – references a one-story building; first floor used for auto repair and welding and an office located on the mezzanine. A note reads, “Spray booth not to be used during the term of this certificate.”

Lot 63
C of O dated 4/18/27 – references a four-story building with a cellar, a store on the first floor and dwellings on floors two through four.

C of O dated 1944 (exact date illegible) – references a four-story building with two stores on the first floor and dwellings on floors two and three; the fourth floor is vacant.

The 1947 temporary C of O for Lot 62 references auto repair operations, welding and a paint spray booth. These historic operations are potential RECs.

3.6 Title Search

Tenen reviewed documentation (deeds and easements) available from NYC ACRIS. This information does not indicate the presence of a REC.

3.7 Environmental Liens/Activity and Use Limitations

As detailed in Section 1.6.1, the User is not aware of any environmental liens or activity and use limitations.

3.8 Historical Interviews

The User requested information from the owner of the Site, including information listed in the interviews section and list of helpful documents included in ASTM 1527-05. The User completed a User Questionnaire and any additional information provided from the User is included in this Phase I ESA where appropriate. The Owner was not available for an interview, which is considered a data gap; based on the historical information available, this is not considered a significant data gap.

3.9 Historical Use Information Summary

Site. The site and surrounding areas are shown as developed urban land since at least 1887. The 1887 Sanborn map shows a two–story building with a carpentry shop and clothing manufacture on Lot 64 and residential buildings with stores on the remaining lots. Additional uses of Lot 64 included bookbinding, with a printing area shown in the eastern part of the Site (north of the current Lot 63) in the 1915 map, unspecified manufacturing (1938 and 1950 maps), an electrical company (maps dated 1969 through 1988), and auto repair (maps dated 1989 through 2007, the date of the last available map). Maps dated 1938 through 2007 also show a small two-story building on the eastern part of Lot 64 with the ground floor marked "auto" and storage on the second floor. Lot 63 is shown with residential and unspecified commercial uses on all maps; however, the city directory includes a 1928 listing for an auto radiator works, as well as listings indicating sale and/or storage of auto parts between 1934 and 1992. Lot 62 was originally developed with dwellings and a first floor store, with first floor wagon storage shown in 1904 and 1915, and auto repair (fender works), depicted on maps dated 1950 through 2007. Auto repair operations on this lot are further documented by the 1934-1997 city directory listings, and the 1944 C of O, which references auto repair, welding, and a paint spray booth at this location.

Adjoining and Surrounding Properties. The lots to the north are shown as primarily residential in maps dated 1887 through 2007, with the Site bordered by the vacant rear portions of the dwellings located along Lefferts Place. The available Sanborn maps for the south adjacent properties indicate that these lots were initially developed with dwellings and stores, and, by 1979, with commercial and industrial uses. City directory listings dated 1934 through 2005 indicates auto-related uses as early as 1934, with later uses including plumbing (1960-1976), sewer cleaning (1960), packing (1949-1985), garage (1934), auto repair (1945-1992), refrigerator manufacture (1997), mechanical company (1992-1997), industrial laundry (1960), and furniture refinishing (1970-1973). The Sanborn maps show the east adjacent lot with a dwelling and store from prior to 19887 through sometime prior to 1950, with maps dated 1950 through 2007 depicting an auto repair shop at this location. The city directories list additional uses, including oil and electrical companies (1934), welding (1940), woodworking (2005, 2013), restaurant supply (2005-2013), and an HVAC contractor (2008). The west adjacent property remained vacant until sometime between 1915 and 1938, with the 1938 map showing a large building used for tire service and repair with a 1,000-gallon underground gasoline tank. The tank is shown in all maps through 1986; the area of the tank is illegible in later maps. No additional changes in use of the west adjacent lot are shown through 2007. Based on the city directory listings, other uses of this property included an auto service station/garage (1928), auto salvage (1940), canvas products (1945) photography lab (1949), plastics company (1960), roofing contractor (1980-2013), ceramics (1985-1997), and building supply (1985 and 2013).

Regarding the surrounding properties, the earlier maps show the area already developed with dwellings, stores and some institutional uses. By 1938, increasing industrial and vehicle-related uses were present, including a vulcanizing operation to the west on the Site block, a commercial garage to the north and a large service station/repair shop (with two gasoline tanks and a paint spray booth) on the east adjacent block. Maps dated 1950 through 1979 show increasing auto-related uses, including additional auto repair

shops to the east on the Site block, and auto repair and a filling station south of the Site along Atlantic Avenue. While uses of individual lots may have changed, the nature of the surrounding area remained relatively constant through 2007, the date of the last available map.

Regarding the site and adjacent/surrounding properties, the results of the city directory, historic topographic map and aerial photograph review are generally consistent with the usage depicted on the historic Sanborn maps, although the city directory listings provide information on Site and adjacent property uses beyond that shown on the maps. A review of the historic information identified a gasoline storage tank on a west adjacent lot and historic uses of the Site and adjacent and surrounding properties which likely involved the use and disposal of hazardous materials, including paints, solvents, metals and petroleum products. These historic uses are considered potential RECs.

4.0 RECORDS REVIEW

Database information was provided by Environmental Data Resources (EDR) on December 19, 2014. Several available federal and state databases were searched using standard radii, as detailed in ASTM 1527-05. The database search report, including definitions and descriptions, is included in Appendix D.

4.1 Federal, State/Tribal and Proprietary Databases

Listings for the Site were identified on EDR's proprietary E-DESIGNATION database. The information reviewed indicates that E-designations for hazardous materials and noise have been placed on all three Site lots.

Records for surrounding properties show that multiple properties within the standard search radii are listed in the LTANKS, HIST LTANKS and NY Spills and NY Historic Spills, and NY/NJ manifest databases, and multiple nearby sites have registered storage tanks. Each of these categories is detailed below. The following databases contain sites within the standard search radii.

Summary of Databases with Identified Sites

Database	Description	Radius	Facilities
CERCLIS	The CERCLIS database contains data on potentially hazardous waste sites reported pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act, including sites which are either proposed to or on the NPL and sites which are in the screening and assessment phase for possible inclusion on the NPL.	0.5 mi	1
RCRA-LQG	RCRAInfo is USEPA's information system on sites that generate, transport, store treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators generate over 1,000 kg of hazardous waste or over 1 kg of acutely hazardous waste per month.	0.25 mi	4
RCRA-CESQG	RCRAInfo is USEPA's information system on sites that generate, transport, store treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). The RCRA-CESQG database includes conditionally-exempt small quantity generators (CESQGs) which generate less than 100 kilograms (kg) of hazardous waste or less than 1 kg of acutely hazardous waste, per month.	0.25 mi	5
SWF/LF	The SWF/LF database typically contains an inventory of solid waste disposal facilities or landfills.	0.5 mi	4
NY UST / NY AST	The NY UST and NY AST databases include site with registered USTs or ASTs, respectively.	0.25 mi	12(UST) 24(AST)
NY TANKS	The TANKS database contains records of facilities that are or have been regulated under the Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.	0.25mi	1

Database	Description	Radius	Facilities
NY LTANKS	The NY LTANKS database includes an inventory of reported leaking storage tank incidents from April 1, 1986 through present	0.5 mi	39
HIST UST	The HIST UST database is based on information in the NYSDEC PBS database and contains registered USTs prior to 2002; current data is included on the NY UST database	0.25 mi	5
NY SPILLS	The NY Spills database includes data on spills reported to the New York State Department of Environmental Conservation (NYSDEC).	0.125mi	11
RCRA-Non-Gen	RCRAInfo is USEPA's information system on sites that generate, transport, store treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). The RCRA-NonGen database includes sites that do not presently generate hazardous waste.	0.25 mi	37
NY/NJ MANIFEST	MANIFEST databases include documents that list and track hazardous waste from the generator through transporters to a storage or disposal facility.	0.25 mi	104
NY DRYCLEANERS	The DRYCLEANERS database contains a listing of all registered dry cleaning facilities	0.25 mi	1

4.1.1 Federal- and State-Listed Facilities

Site. All three Site lots are listed on the EDR proprietary E-DESIGNATION database. The information provided on the E-DESIGNATION database indicates that E-designation E-138 for Underground Tanks Testing Protocol (i.e., hazardous materials) and window-wall attenuation (i.e., noise) has been placed on the Site by the New York City Department of City Planning in conjunction with an area-wide rezoning. The listing of a property on the E-DESIGNATION database is not considered a REC.

Adjoining and Surrounding Properties. The database listings for adjoining and surrounding properties within the standard search radii were reviewed. Many of these listings pertain to locations that are downgradient or a considerable distance from the Site or reference leaking tank and spills cases that have been closed and listings with no recorded releases and/or violations. The following discussion focuses on listings for properties where the available information indicates the potential for migration of contaminants to the Site.

Con Edison – Manhole 14828 (960 Atlantic Avenue), located approximately .019 mile southwest and upgradient of the Site, is listed on the RCRA-LQG database. The information reviewed indicates that lead waste (D008) was generated at this location in 2009, likely as a result of manhole maintenance. No violations were noted and this listing is not considered a REC.

Grand Recycling Corporation (535 Grand Avenue), located approximately .12 mile gradient of the Site, is listed on both the SWF/LF and NY SPILLS databases. This location is an inactive transfer station and no violations were recorded. The NY SPILLS listing references Spill No. 0108870, which pertains to an abandoned drum on the property. Based on the records, no drum was located by NYSDEC and the spill number was closed on 5/1/02. These listings are not considered RECs.

921 Atlantic Avenue and 923 Atlantic Avenue are listed on the EDR proprietary US Hist Auto Stat database. The database records indicate historic auto repair at 921 Atlantic Avenue (.013 mile from the Site) in 1999, 2001 through 2005 and 2007 through 2009; and auto repair operations at 923 Atlantic

Avenue (.017 mile from the Site) in 2001. Both locations are east of the Site on the Site block and these listings are a potential REC.

Two potential offsite RECs, the listings for 921 and 923 Atlantic Avenue on the US Hist Auto Stat database, were identified based upon a review of the regulatory database.

4.1.2 FOIL Requests

On January 9, 2015, Freedom of Information Law (FOIL) requests for information pertaining to the Site were filed with the following state and city agencies: New York State Department of Environmental Conservation (NYSDEC), New York State Department of Health (NYSDOH), New York City Department of Environmental Protection (NYCDEP), New York City Department of Health and Mental Hygiene, (NYCDOHM) and the New York City Fire Department (FDNY). To date, responses have been received from NYSDEC and NYSDOH, indicating that no records have been located. If any future response changes the conclusions of this report, Tenen will issue an addendum to this Phase I ESA.

5.0 SITE RECONNAISSANCE

On December 23, 2014, Kristen Meisner of Tenen Environmental conducted Site reconnaissance at the subject property and adjoining properties. The weather was overcast and raining, in the mid 40-degrees Fahrenheit.

5.1 Site Observations

The Site, located at 911-917 Atlantic Avenue, Brooklyn, New York, is an irregular-shaped parcel of approximately 13,952 square feet, which lies along the north side of Atlantic Avenue between St. James Place and Grand Avenue. The Site is occupied by three buildings along Atlantic Avenue, as well as external storage facilities and parking space.

The westernmost portion of the Site (911 Atlantic Avenue) contains a three-story building with a cellar and associated detached storage facilities. The property is currently occupied by H. Schacht Electrical Supply, and includes an office and storefront space located on the first floor; the second and third floors are used as storage. A steam boiler located within the Boiler Room of the cellar space is used to heat all three floors; some staining was observed near the boiler. The Site Manager noted that the steam boiler utilized a beveled pitch to accumulate condensate, which would be flushed directly into the sewer, although this process has not occurred since the current management took over five years ago.

Two 275-gallon fuel oil aboveground storage tanks (ASTs) on lifts were located in the cellar. A conveyor belt was identified in the cellar leading up to the first floor; however, no hydraulic equipment was noted. Additionally, a freight elevator on the Site did not contain hydraulic equipment. The elevator shaft room was located on the roof; however, there was no access to this room during Site reconnaissance due to inclement weather.

A four-story building with a cellar (915 Atlantic Avenue) is currently used as storage/commercial space on the first floor, with one residential unit located on each of the three aboveground floors. During the Site reconnaissance, no representative apartments could be accessed. Each of the three residential spaces utilizes individual boilers located outside of each apartment. No staining was observed. Electrical panels for this property are located in the cellar space, which is additionally used for storage.

A two-story commercial building with cellar, located at 917 Atlantic Avenue, currently contains machinery used for wire cutting. The Site Manager noted that the space has previously been used as an auto shop with a back section of the property used for automotive primer spray painting. Electrical panels were identified in the cellar space.

An asphalt-paved alleyway is located between 911 and 915 Atlantic Avenue, leading to a back parking lot with access to two storage facilities identified as 913 Atlantic Avenue. Some staining was observed in these areas.

The Site is connected to public and/or publically regulated utilities, including electric, stormwater and sewer. Electricity is provided by Consolidated Edison (Con Ed). Additionally high-efficiency ballasts were identified for lighting throughout the Site. Electrical transformers were not identified on-Site.
The on-Site stormwater management consists of roof surface pitch to interior roof drains. The interior roof drains connect to the on-Site storm drain systems, which in turn connect to the outgoing sewer mains. The Site does not appear to accept stormwater drainage from off-Site sources. The storm water flow along the sidewalks fronting the property is diverted via sheet flow to municipal storm sewers.
A summary of the Site reconnaissance is included in the table below:

Summary of Site Reconnaissance Features

Feature	Present on-Site
Aboveground storage tanks (ASTs) or evidence of ASTs	Yes
Underground storage tanks (USTs) or evidence of USTs	No
Strong, pungent, or noxious odors	No
Pools of liquid likely to be hazardous materials or petroleum products	No
Drums	No
Unidentified substance containers	No
PCB-containing equipment	No
Subsurface hydraulic equipment	No
Heating/ventilation/air conditioning (HVAC)	Yes
Stains or corrosion on floors, walls, or ceilings (other than water)	Yes
Floor drains or sewer pit	No
Pits, ponds, or lagoons	No
Stained soil and/or pavement	No
Stressed vegetation	No
Waste or wastewater discharges to surface or surface waters on subject site (including stormwater)	No
Wells (irrigation, domestic, dry, injection, abandoned, monitoring)	No
Septic systems	No

No evidence of a REC was observed during Site reconnaissance.

5.2 Adjoining and Surrounding Properties

The surrounding area is predominantly a mixture of industrial and residential uses, with some commercial uses. The Site is bordered by Lefferts Place to the north, Atlantic Avenue to the south, Grand Avenue to the east, and St. James Place to the west. Adjoining properties include:

Direction	Use
East	1-story commercial property.
West	2-story Premier Roofing Co. commercial property.
North	4-story residential properties.
South	2- and 3- story commercial and residential spaces along the south side of Atlantic Avenue.

Fill ports were observed at several surrounding properties; however, there is no evidence of a release and the fill ports are not considered a REC.

5.3 Asbestos, Lead Paint and Radon

While not specifically included in the Phase I ESA scope of work, Tenen performed an assessment of the property for the potential presence of asbestos, lead paint and radon. The findings are described below.

5.3.1 Asbestos-Containing Material (ACM)

Several potential asbestos-containing materials (ACM) were observed, including pipe insulation, roofing materials and caulking. Based upon the age of the buildings, suspect ACM may also be located in inaccessible areas. No results or information regarding previous sampling for ACM was made available on Site.

5.3.2 Lead-Based Paint (LBP)

No evidence of lead-based paint (LBP) was observed; however, paint chipping was observed throughout indoor spaces. Based on the age of the buildings, LBP may be present in the buildings.

5.3.3 Radon

The site is located within EPA Zone 3 for radon. This zone contains an indoor average level of less than 2 picoCuries per liter, which is the lowest designation. Therefore, radon does not appear to be an environmental concern at this Site.

6.0 FINDINGS / OPINIONS

Tenen has conducted a review of ascertainable records and historical documentation in relation to the Site, adjacent properties and those within standard search radii. Site reconnaissance was conducted.

The Site, located at 911-917 Atlantic Avenue, Brooklyn, New York, is an irregular-shaped parcel of approximately 13,952 square feet, which lies along the north side of Atlantic Avenue between St. James Place and Grand Avenue. The property is currently occupied by three buildings. The westernmost portion of the Site (Lot 64) contains a three-story building with a cellar and associated detached storage facilities and is occupied by an electrical supply company. A four-story building with a cellar (Lot 63) is currently used as storage/commercial space on the first floor, with one residential unit located on each of the three aboveground floors. A two-story building with a cellar is located at 917 Atlantic Avenue (Lot 62) and currently contains machinery used for wire cutting. Information obtained during the Site reconnaissance indicates that this lot was previously used for auto repair, with spray painting operations in the rear section of the property. The prior use of a portion of the Site for auto repair operations is considered a REC.

The site and surrounding areas have been developed urban land since at least 1887. The Site was initially developed with a two–story building with a carpentry shop and clothing manufacture on Lot 64 and residential buildings with stores on the remaining lots. Subsequent uses of Lot 64 included bookbinding, (including a printing area shown in the eastern part of the Site) (1915 map), manufacturing (1938 and 1950 maps), an electrical company (1969–1988 maps), and auto repair (1989–2007 maps). A small two-story building on the eastern part of Lot 64 with notations for "auto" and storage" is shown on maps dated 1938 through 2007. Lot 63 is shown with residential and unspecified commercial uses on all maps; however, the city directory includes a 1928 listing for an auto radiator works, and listings indicating sale and/or storage of auto parts between 1934 and 1992. Non-residential uses of Lot 62 include wagon storage (1904-1915, and auto repair (1950 through 2007). Based historic information and the Site reconnaissance, a paint spray booth was also located on this lot.

The lots to the north have been primarily residential since at least 1887. The south adjacent properties were initially developed with dwellings and stores, and, by 1934, with commercial and industrial uses, primarily auto-related. Later uses include plumbing (1960-1976), sewer cleaning (1960), packing (1949-1985), garage (1934), auto repair (1945-1992), refrigerator manufacture (1997), mechanical company (1992-1997), industrial laundry (1960), and furniture refinishing (1970-1973). By 1887, the east adjacent lot had been developed with a dwelling and store. Prior to 1950, an auto repair shop began operations on this lot, continuing through at least 2007. Additional uses, noted in the city directories, include oil and electrical companies (1934), welding (1940), woodworking (2005, 2013), restaurant supply (2005-2013), and an HVAC contractor (2008). The west adjacent property was vacant until prior to 1938, when it was developed with a large building used for tire service and repair; the Sanborn maps through 1986 show a 1,000-gallon underground gasoline tank in the western part of the building. Later maps are illegible and it is unknown if the tank was present after that date. Other uses of this property have included an auto service station/garage (1928), auto salvage (1940), canvas products (1945) photography lab (1949), plastics company (1960), roofing contractor (1980-2013), ceramics (1985-1997), and building supply (1985 and 2013).

The earlier maps show the area already developed with dwellings, stores and some institutional uses, and, by 1938, with increased industrial and vehicle-related uses. These included a vulcanizing operation to the west on the Site block (later replaced by a tinsmith, and, subsequently, by a tire service), a commercial garage to the north and a large service station/repair shop (with two gasoline tanks and a paint spray booth) on the east adjacent block. Maps dated 1950 through 1979 show additional auto repair shops to the east on the Site block, and auto repair and a filling station south of the Site along Atlantic Avenue.

While uses of individual lots may have changed, the nature of the surrounding area remained relatively constant through 2007, the date of the last available map.

Regarding the site and adjacent/surrounding properties, the results of the city directory, historic topographic map and aerial photograph review are generally consistent with the usage depicted on the historic Sanborn maps, with the city directory listings providing additional information on Site and adjacent property uses. A review of the historic information identified a gasoline storage tank on the west adjacent lot and historic uses of the Site and adjacent and surrounding properties which likely involved the use and disposal of hazardous materials, including paints, solvents, metals and petroleum products. These historic uses are considered RECs.

The database search indicated numerous listings of properties within the standard search radii on multiple regulatory databases. Many of these listings are located a significant distance from and/or downgradient of the Site. All three Site lots are listed on the EDR E-DESIGNATION database, indicating that E-designation E-138 for Underground Tanks Testing Protocol (i.e., hazardous materials) and window-wall attenuation (i.e., noise) has been placed on the Site by the New York City Department of City Planning in conjunction with an area-wide rezoning. The listing of a property on the E-DESIGNATION database is not considered a REC. Two offsite RECs, the listings for 921 and 923 Atlantic Avenue on the US Hist Auto Stat database, were identified based upon a review of the regulatory database.

7.0 CONCLUSIONS

Tenen has performed a *Phase I Environmental Site Assessment*, in conformance with the scope and limitations of ASTM Practice E 1527-13, for 911-917 Atlantic Avenue, Kings County, New York. Any exceptions to, or deletions or deviations from this practice are described in Section 1.4 of this report. This assessment has revealed *no evidence of recognized environmental conditions* in connection with the property with the exception of the following:

- historic use of the Site for auto repair, printing, and manufacturing
- historic uses of adjacent and surrounding properties which likely involved the use and disposal of hazardous materials, including paints, solvents, metals and petroleum products
- a historic, potentially existing, underground gasoline storage tank on the property directly west of the Site

8.0 DECLARATION

I, Matthew Carroll, declare that, to the best of my professional knowledge and belief, I meet the definition of an Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training and experience to assess a site of the nature, history and setting of the subject Site. I have developed and performed the All Appropriate Inquires in conformance with the standards and practice set forth in 40 CFR Part 312.

_____

Matthew Carroll
Environmental Professional

9.0 REFERENCES

- The EDR Radius Map with GeoCheck, Environmental Data Resources, December 19, 2014
- Certified Sanborn Map Report, Environmental Data Resources, December 20, 2014
- The EDR-City Directory Report, Environmental Data Resources, December 19, 2014
- New York City Department of Buildings records, accessed December 23, 2014
- The EDR Historical Topographic Map Report, Environmental Data Resources, December 19, 2014
- Digital Tax Map, New York City Department of Finance, accessed December 23, 2014
- The EDR Aerial Photo Decade Package, Environmental Data Resources, December 22, 2014
- Zoning Map #16c, New York City Planning Commission, effective September 24, 2013

APPENDIX A

FIGURES

APPENDIX B

PHOTOGRAPHS

APPENDIX C

HISTORICAL RESEARCH

APPENDIX D

REGULATORY RECORDS

APPENDIX E

ADDITIONAL DOCUMENTATION

TENEN ENVIRONMENTAL

121 West 27th Street, Suite 1004
New York, NY 10001
(646) 606-2332

March 3, 2013

The Hudson Companies
826 Broadway, 11th Floor
New York, NY 10003
Attn: Mr. Joseph Kohl-Riggs

Re: Due Diligence Investigation
911-917 Atlantic Avenue—Brooklyn, NY
Block 2018, Lots 62, 63 and 64

Dear Joseph,

This letter report summarizes the findings and recommendations pertaining to the Phase I Environmental Site Assessment (Phase I ESA) and investigation activities performed by Tenen Environmental (Tenen) at the above property (the Site). The report includes a description of the sampling methodology and discusses the analytical results.

Background

The Site, located at 911-917 Atlantic Avenue, Brooklyn, New York, is an irregular-shaped parcel of approximately 13,952 square feet, which lies along the north side of Atlantic Avenue between St. James Place and Grand Avenue. The Site has approximately 100.5 feet of frontage along Atlantic Avenue and is approximately 100 feet (Lots 62 and 63) to 138 feet deep (Lot 64). Other addresses associated with the Site are 907-911 Atlantic Avenue, 911 Rear Atlantic Avenue and 915 Rear Atlantic Avenue. The tax map designation of the property is Block 2018, Lots 62, 63 and 64. Lot 64, the westernmost part of the Site, contains a three-story building with a cellar along with associated detached storage facilities. A four-story building with a cellar (Lot 63) is currently used as storage/commercial space on the first floor, with one residential unit located on each of the three aboveground floors. A two-story building with cellar is located at 917 Atlantic Avenue (Lot 62) and is currently being used for commercial space with machinery used for wire cutting.

All Site lots are zoned R7-A and Lot 64 is also zoned R6-B, designations which denote medium density areas with high lot coverage buildings. The Site also has a C2-4 commercial overlay, which allows for commercial uses that serve local residential needs. A Site Location Map is included as Figure 1.

The Site has an e-designation placed on the property by the New York City Department of City Planning (NYCDCP). The presence of the e-designation will require implementation of an investigation work plan approved by the Mayor's Office of Environmental Remediation (OER) and in accordance with the City Environmental Quality Review (CEQR) Technical Manual.

The Site is located near several sub-grade transit structures, including the Long Island Rail Road (LIRR) Atlantic Branch along Atlantic Avenue and the NYC Subway C line along Fulton Street. The scope of work included shallow sampling only.

Based on the Phase I ESA performed by Tenen in January 2015, the following Recognized Environmental Conditions (RECs) were identified:

- historic use of the Site for auto repair, printing, and manufacturing;
- historic uses of adjacent and surrounding properties which likely involved the use and disposal of hazardous materials, including paints, solvents, metals and petroleum products; and,

- a historic, potentially existing, underground gasoline storage tank on the property directly west of the Site.

The scope of the due diligence investigation was designed to address the findings of Tenen's Phase I ESA. This investigation did not meet all of the e-designation program requirements; however, samples were collected consistent with City Environmental Quality Review (CEQR) requirements in order that the data could be used as part of the e-designation investigation.

Site Geology and Hydrogeology. The scope of work included the collection of shallow soil samples to a depth of approximately two feet below grade. Approximately six inches of concrete was underlain by fill material including ash, cinders and fine to medium sand at each of the three locations.

Groundwater was not encountered during due diligence investigations. Based on Tenen's Phase I ESA, groundwater is expected to be between 51 and 75 feet below the ground surface. Groundwater flow is assumed to be locally east.

Sampling Methodology. The methodologies used to collect shallow soil and soil vapor samples are summarized below. The investigation was completed on January 9, 2015. A Site Map depicting all sampling locations is included in Figure 2.

Soil. A total of three exterior shallow soil samples were taken within the parking area at the Site from locations under six inches of concrete. Samples were collected using a hand auger. Refusal was encountered in each boring at approximately two feet below grade.

The soil was identified as fill material that was predominately sands, ash and cinders. No odors or staining was observed during due diligence investigations.

Soil Gas Sampling. A total of six soil vapor points were installed below the cellar concrete slabs within the three buildings fronting Atlantic Avenue; two points were installed per building, located at the north and south ends of each. One sample from each location was collected from approximately six inches below the basement slab. The basement slab was identified at a thickness of approximately four to five inches. Sample 911SV-1 was installed adjacent to two fuel oil aboveground storage tanks (ASTs) identified during the Phase I ESA.

Soil screening using a photoionization detector (PID) readings were recorded during the pre-sampling soil vapor point screening for all samples.

A summary of sample designations, media sampled and locations is shown below:

Sample Locations, Sample Designations and Media Sampled

Sample Name (Depth in ft-bg)	Sample Type	PID (ppm)	Description of Location
911SV-1	Soil Vapor	0.0	South end, basement level of 911 Atlantic Avenue
911SV-2	Soil Vapor	0.0	North end, basement level of 911 Atlantic Avenue
915SV-3	Soil Vapor	0.0	North end, basement level of 915 Atlantic Avenue
915SV-4	Soil Vapor	0.0	South end, basement level of 915 Atlantic Avenue
917SV-5	Soil Vapor	0.0	South end, basement level of 917 Atlantic Avenue
917SV-6	Soil Vapor	0.0	North end, basement level of 917 Atlantic Avenue
SS-1 (0-2)	Shallow Soil	0.0	Entrance of storage facility, parking lot

Sample Name	Sample	PID (ppm)	Description of Location
SS-2 (0-2)	Shallow Soil	0.0	Parking area; southwest, center
SS-3 (0-2)	Shallow Soil	0.0	Parking area; southeast, center

Analytical Results

The samples were preserved on ice and sent under chain-of-custody documentation to Alpha Analytical, Inc. (Alpha). Alpha is certified by the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) as LABIDs 11148 and 11627. Soil samples were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs) and Target Analyte List (TAL) metals. Soil vapor samples were analyzed for TO-15 VOCs. Two samples with elevated lead were also analyzed for Toxicity Characteristic Leachate Procedure (TCLP) lead.

The soil results were compared to the New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use soil cleanup objectives (SCOs) as listed in 6 NYCRR Part 375-6.8(a) and Restricted-Residential Use SCOs as listed in 6 NYCRR Part 375-6.8(b) and Commissioner's Guidance CP-51.

Soil vapor results were compared to the New York State Department of Health (NYSDOH) Air Guidance Values (AGVs), Soil Vapor/Indoor Air Matrices and three (3) databases based on background studies and referenced in the NYSDOH Soil Vapor Guidance, including the following:

- Upper fence indoor air values from Table C1, NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes;
- 90th percentile indoor air values from Table C2, EPA 2001: Building Assessment and Survey Evaluation (BASE) Database, and
- 95th percentile indoor air values from Table C5, Health Effects Institute (HEI) 2005: Relationship of Indoor, Outdoor and Personal Air

Note that the AGVs and background values apply to indoor air concentrations; however, they are used in this report to screen the soil vapor results.

Soil vapor and soil sample results are included in Tables 1 through 5. Laboratory deliverables are included in Appendix 2.

Soil

No VOCs or SVOCs were detected in shallow soil samples at concentrations above the Unrestricted Use SCOs. Acetone was the only VOC detected in all three samples; however, concentrations are well below Unrestricted Use SCOs.

The following metals were identified above Restricted-Residential Use include the following: arsenic, barium, cadmium, iron, lead and mercury. The highest concentrations were detected in sample SS3 (0-2). Arsenic was detected at 28 milligrams per kilogram (mg/kg), above the Restricted-Residential SCO of 16 mg/kg. Barium was detected at 640 mg/kg, above the Restricted-Residential SCO of 350 mg/kg. Cadmium was detected at 2.8 mg/kg, above the Restricted-Residential SCO of 2.5 mg/kg. Iron was detected at 30,000 mg/kg, above the Restricted-Residential SCO of 2,000 mg/kg. Lead was detected at 1,100 mg/kg, above the Restricted-Residential SCO of 400 mg/kg. Mercury was detected at 9.6 mg/kg, above the Restricted-Residential SCO of 0.81 mg/kg. TCLP lead was detected at an estimated concentration of 0.20 milligrams per liter (mg/l) in sample SS1 (0-2) and an estimated concentration of 0.48 mg/l in sample SS3 (0-2); both concentrations are below the threshold of 5 mg/l SS1 (a hazardous designation.

At shallow soil location SS3 (0-2), two pesticides, 4,4'-DDE and 4,4'-DDT, were detected above the Unrestricted Use SCOs but well below Restricted-Residential Use SCOs. The PCB Aroclor 1260 was also detected above the Unrestricted Use SCOs but well below Restricted-Residential Use SCOs.

Soil Vapor

Several compounds were detected in the soil vapor samples collected at the Site. No compounds were detected above the NYSDOH AGVs. The only compound detected with an association to a NYSDOH Matrix includes tetrachloroethene, which was detected to be the highest at 911SV-1 with a concentration of 4.88 micrograms per cubic meter (ug/m3), well below the NYSDOH AGV of 30 ug/m3. The matrix associated with this compound (Matrix 2) indicates that no monitoring or mitigation is required for concentrations below 100 ug/m3.

Acetone, a common laboratory artifact, was detected at all six locations. Three petroleum-related compounds were detected above the highest background concentration: 1,3-butadiene (max 8.78 ug/m3 at 911SV2); 1,2,4-trimethylbenzene (max 55.1 ug/m at 911SV-1); and, 1,3,5-trimethylbenzene (max 3.7 ug/m3 at 911SV-2). These concentrations may be related to minor impacts from the nearby ASTs and/or boiler room.

Findings and Conclusions

The due diligence investigation indicated the following:

- two 275-gallon capacity ASTs are present at the Site;
- no evidence of a major petroleum release was detected during the subsurface investigation;
- fill material containing ash and cinders was observed to depth of approximately two feet below grade in the parking area. Refusal was met at approximately two feet in all borings;
- soil sampling indicated the presence of fill-related impacts, in particular elevated metals, above the Restricted-Residential SCOs. TCLP lead sampling indicated that these samples were not hazardous based on the lead concentrations; and,
- groundwater, which was not sampled, is estimated to be between 51 and 75 feet below grade.

Based on these findings, Tenen recommends the following:

- the results of the environmental investigation should be presented to OER along with a work plan to complete additional sampling. Sampling would include, at a minimum, deeper soil samples and groundwater samples. Deeper borings would need to be permitted by relevant transit authorities;
- once the building design is finalized, Remedial Action Plans (RAPs) and a Construction Health & Safety Plan (CHASP) should be developed to address each of the e-designations; and,
- the hazardous materials RAP should include managed off-site disposal of soil, removal of all ASTs in accordance with state and local regulations, implementation of a Community Air Monitoring Plan (CAMP) and installation of a composite cover system that includes a vapor barrier beneath all occupied spaces.

Please contact us if you need any additional information.

Sincerely,
Tenen Environmental, LLC

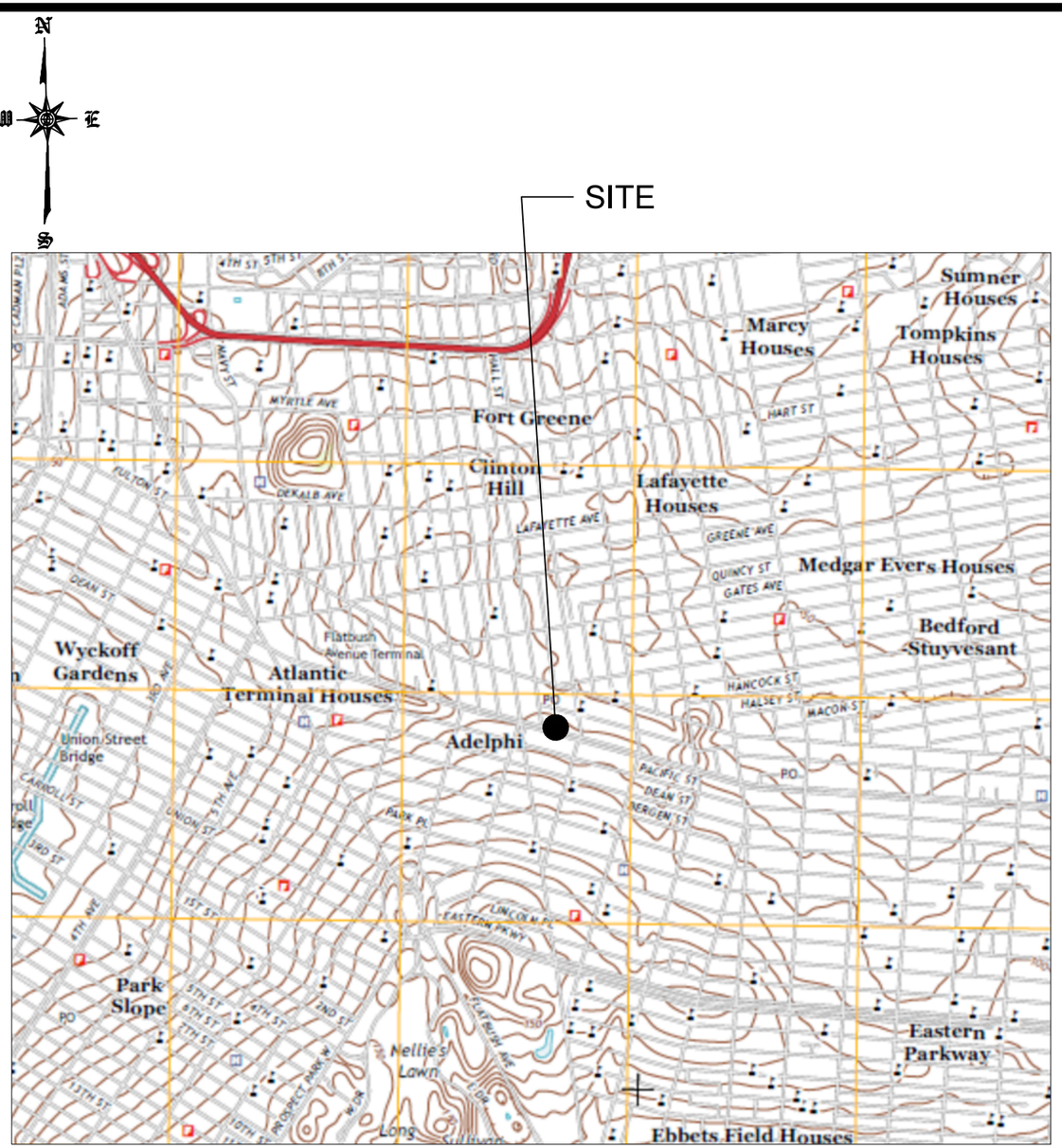
Matthew Carroll, P.E.
Principal / Environmental Engineer

Figure 1 Site Location
Figure 2 Soil and Soil Vapor Sample Locations

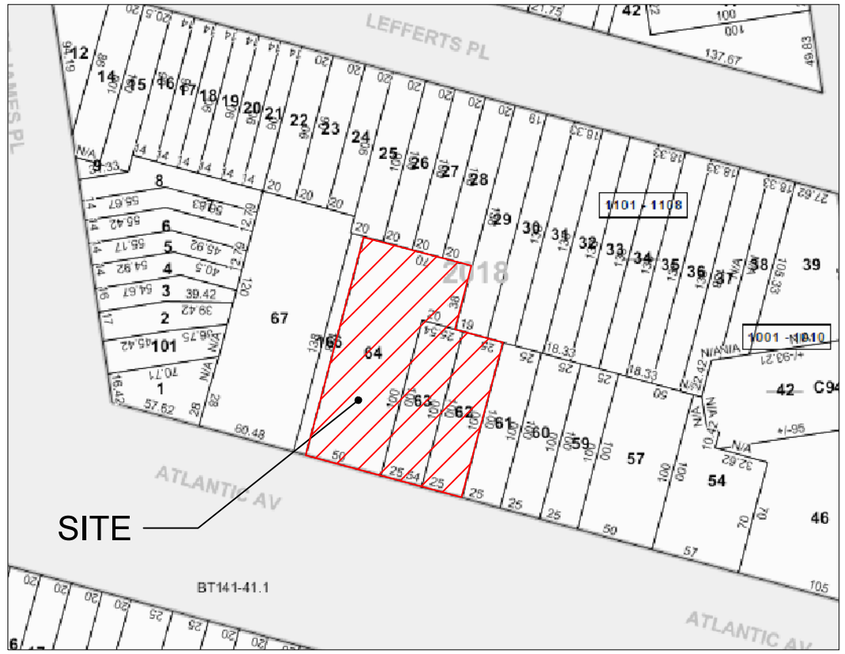
Table 1 Volatile Organic Compounds (VOCs) in Soil
Table 2 Semivolatile Organic Compounds (SVOCs) in Soil
Table 3 Metals in Soil
Table 4 Pesticides and Polychlorinated Biphenyls in Soil
Table 5 Volatile Organic Compounds (VOCs) in Soil Vapor

Attachment 1 Laboratory Deliverables

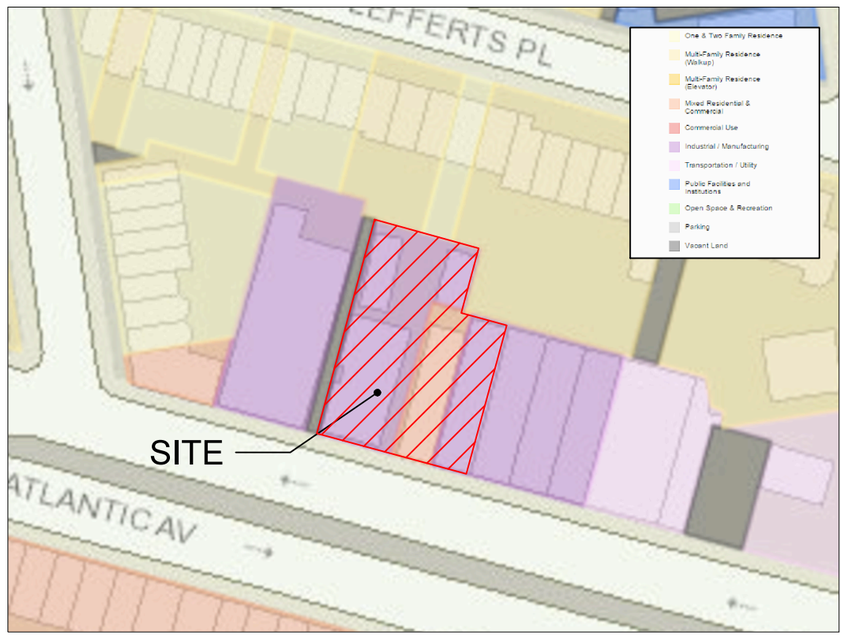
Figures



Re: USGS BROOKLYN - NY - NJ QUADRANGLE, 2013
http://www.usgs.gov



Re: DEPARTMENT OF FINANCE, DIGITAL TAX MAP, 2014
http://gis.nyc.gov/taxmap/map.htm



Re: DEPARTMENT OF CITY PLANNING ZOLA, 2014
http://gis.nyc.gov/doitt/nyscitymap/template?applicationsName=ZOLA

CLIENT
911-917 ATLANTIC AVE
BROOKLYN, NY
BLOCK 2018,
LOTS 62, 63 & 64

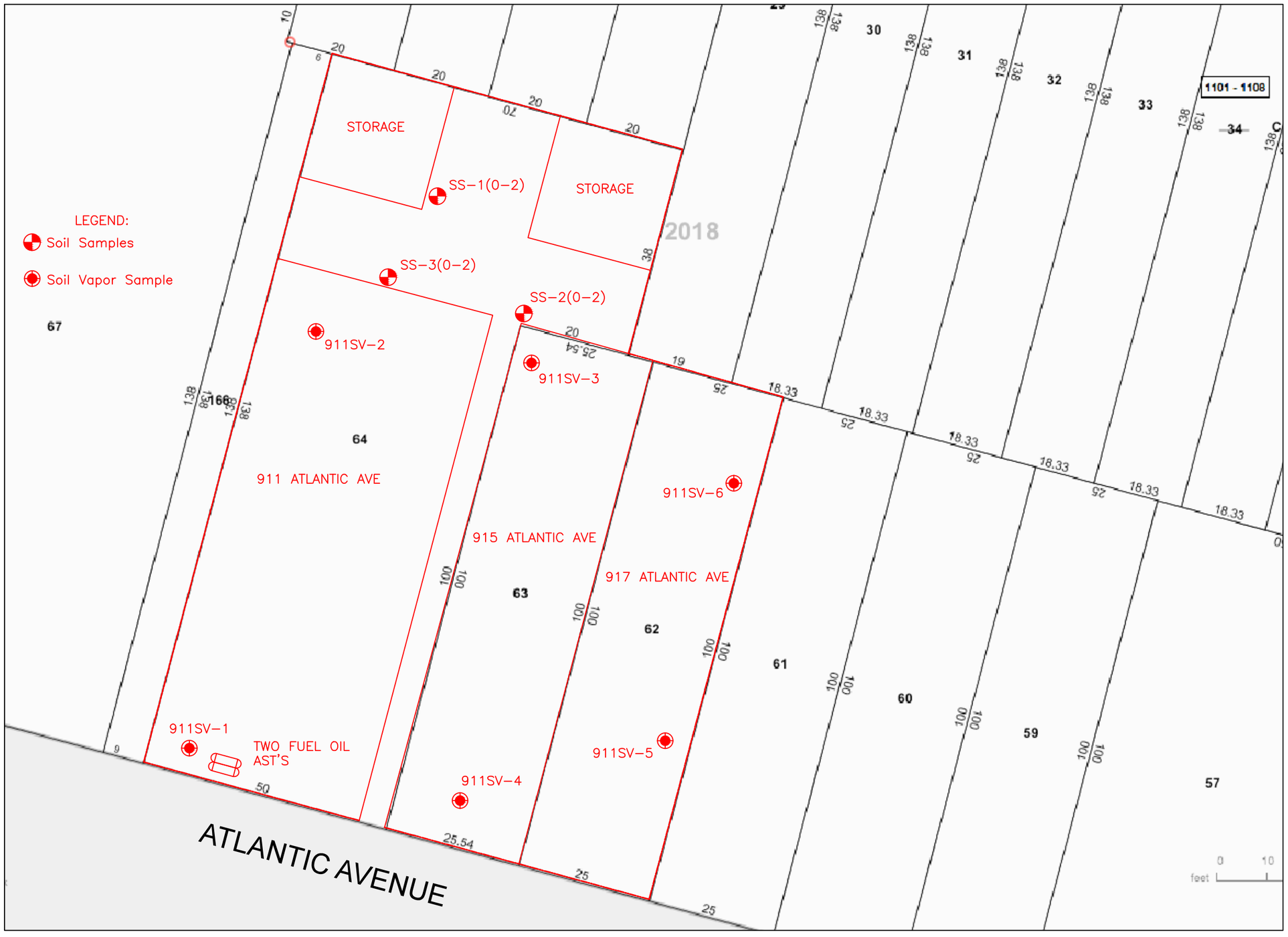
CONSULTANT
TENEN ENVIRONMENTAL

TENEN ENVIRONMENTAL, LLC
121 West 27th Street
Suite 1004
New York, NY 10001
O: 646-606-2332
F: 646-606-2379

DRAWN BY	CHECKED BY	DATE	SCALE
KM	MC	DECEMBER 2014	AS NOTED

DRAWING TITLE: FIGURE 1

DRAWING NO.: SITE LOCATION MAP



RE: DEPARTMENT OF FINANCE, DIGITAL TAX MAP, 2015
http://gis.nyc.gov/taxmap/map.htm

CLIENT
911-917 ATLANTIC AVE
BROOKLYN, NY

CONSULTANT
TENEN ENVIRONMENTAL
TENEN ENVIRONMENTAL, LLC
121 West 27th Street
Suite 1004
New York, NY 10001
O: 646-606-2332
F: 646-606-2379

DRAWN BY	CHECKED BY	DATE	SCALE:
KM	MC	JANUARY 30, 015	AS NOTED

DRAWING TITLE:
SAMPLE LOCATIONS

DRAWING NO.
FIGURE 2

Tables

Table 1 - Volatile Organic Compounds (VOCs) in Soil
911-917 Atlantic Avenue -- Brooklyn, NY

LOCATION SAMPLING DATE LAB SAMPLE ID	Soil Cleanup Objectives (SCOs)		SS1 (0-2) 1/9/2015 L1500485-01		SS2 (0-2) 1/9/2015 L1500485-02		SS3 (0-2) 1/9/2015 L1500485-03	
Units in mg/kg **Volatile Organic Compounds**	**NY-RESR**	**NY-UNRES**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**
Methylene chloride	51	0.05	0.0014	U	0.0013	U	0.0022	U
1,1-Dichloroethane	19	0.27	0.0001	U	0.0001	U	0.00017	U
Chloroform	10	0.37	0.00045	U	0.00045	U	0.00073	U
Carbon tetrachloride	1.4	0.76	0.00026	U	0.00025	U	0.00042	U
1,2-Dichloropropane	--	--	0.00028	U	0.00028	U	0.00045	U
Dibromochloromethane	--	--	0.00019	U	0.00018	U	0.0003	U
1,1,2-Trichloroethane	--	--	0.00037	U	0.00037	U	0.0006	U
Tetrachloroethene	5.5	1.3	0.00017	U	0.00017	U	0.00028	U
Chlorobenzene	100	1.1	0.00043	U	0.00042	U	0.00069	U
Trichlorofluoromethane	--	--	0.00048	U	0.00047	U	0.00077	U
1,2-Dichloroethane	2.3	0.02	0.00014	U	0.00014	U	0.00022	U
1,1,1-Trichloroethane	100	0.68	0.00014	U	0.00013	U	0.00022	U
Bromodichloromethane	--	--	0.00021	U	0.00021	U	0.00034	U
trans-1,3-Dichloropropene	--	--	0.00015	U	0.00015	U	0.00024	U
cis-1,3-Dichloropropene	--	--	0.00014	U	0.00014	U	0.00023	U
1,3-Dichloropropene, Total	--	--	0.00014	U	0.00014	U	0.00023	U
1,1-Dichloropropene	--	--	0.00017	U	0.00017	U	0.00028	U
Bromoform	--	--	0.00029	U	0.00028	U	0.00047	U
1,1,2,2-Tetrachloroethane	35	--	0.00012	U	0.00012	U	0.0002	U
Benzene	2.9	0.06	0.00014	U	0.00014	U	0.00023	U
Toluene	100	0.7	0.00024	U	0.00024	U	0.00039	U
Ethylbenzene	30	1	0.00016	U	0.00015	U	0.00025	U
Chloromethane	--	--	0.00036	U	0.00036	U	0.00058	U
Bromomethane	--	--	0.00041	U	0.00041	U	0.00067	U
Vinyl chloride	0.21	0.02	0.00014	U	0.00014	U	0.00023	U
Chloroethane	--	--	0.00039	U	0.00038	U	0.00063	U
1,1-Dichloroethene	100	0.33	0.00032	U	0.00032	U	0.00052	U
trans-1,2-Dichloroethene	100	0.19	0.00026	U	0.00026	U	0.00042	U
Trichloroethene	10	0.47	0.00015	U	0.00015	U	0.00025	U
1,2-Dichlorobenzene	100	1.1	0.00019	U	0.00018	U	0.0003	U
1,3-Dichlorobenzene	17	2.4	0.00016	U	0.00016	U	0.00027	U
1,4-Dichlorobenzene	9.8	1.8	0.00017	U	0.00017	U	0.00027	U
Methyl tert butyl ether	62	0.93	0.0001	U	0.0001	U	0.00017	U
p/m-Xylene	--	--	0.00024	U	0.00024	U	0.00039	U
o-Xylene	--	--	0.00021	U	0.00021	U	0.00034	U
Xylenes, Total	100	0.26	0.00021	U	0.00021	U	0.00034	U
cis-1,2-Dichloroethene	59	0.25	0.00018	U	0.00017	U	0.00028	U
1,2-Dichloroethene, Total	--	--	0.00018	U	0.00017	U	0.00028	U
Dibromomethane	--	--	0.0002	U	0.0002	U	0.00032	U
Styrene	--	--	0.00049	U	0.00049	U	0.0008	U
Dichlorodifluoromethane	--	--	0.00023	U	0.00023	U	0.00038	U
Acetone	100	0.05	0.015		0.022		0.0037	J
Carbon disulfide	100	--	0.0014	U	0.0013	U	0.0022	U
2-Butanone	100	0.12	0.0032	J	0.0034	J	0.00054	U
Vinyl acetate	--	--	0.00016	U	0.00016	U	0.00026	U
4-Methyl-2-pentanone	--	--	0.0003	U	0.0003	U	0.00048	U
1,2,3-Trichloropropane	80	--	0.0002	U	0.0002	U	0.00032	U
2-Hexanone	--	--	0.00082	U	0.00081	U	0.0013	U
Bromochloromethane	--	--	0.00034	U	0.00033	U	0.00055	U
2,2-Dichloropropane	--	--	0.00028	U	0.00027	U	0.00045	U
1,2-Dibromoethane	--	--	0.00021	U	0.00021	U	0.00035	U
1,3-Dichloropropane	--	--	0.00018	U	0.00018	U	0.00029	U
1,1,1,2-Tetrachloroethane	--	--	0.00039	U	0.00038	U	0.00063	U
Bromobenzene	--	--	0.00026	U	0.00025	U	0.00041	U
n-Butylbenzene	100	12	0.00014	U	0.00014	U	0.00023	U
sec-Butylbenzene	100	11	0.00015	U	0.00015	U	0.00024	U
tert-Butylbenzene	100	5.9	0.00017	U	0.00016	U	0.00027	U
o-Chlorotoluene	--	--	0.0002	U	0.00019	U	0.00032	U
p-Chlorotoluene	--	--	0.00016	U	0.00016	U	0.00026	U
1,2-Dibromo-3-chloropropane	--	--	0.00048	U	0.00048	U	0.00078	U
Hexachlorobutadiene	--	--	0.00028	U	0.00028	U	0.00045	U
Isopropylbenzene	100	--	0.00013	U	0.00012	U	0.0002	U
p-Isopropyltoluene			0.00015	U	0.00015	U	0.00025	U
Naphthalene	100	12	0.00017	U	0.00017	U	0.00027	U
Acrylonitrile	--	--	0.00063	U	0.00062	U	0.001	U
n-Propylbenzene	100	3.9	0.00013	U	0.00013	U	0.00022	U
1,2,3-Trichlorobenzene	--	--	0.00018	U	0.00018	U	0.00029	U
1,2,4-Trichlorobenzene	--	--	0.00022	U	0.00022	U	0.00036	U
1,3,5-Trimethylbenzene	47	8.4	0.00018	U	0.00017	U	0.00028	U
1,2,4-Trimethylbenzene	47	3.6	0.00017	U	0.00017	U	0.00028	U
1,4-Dioxane	9.8	0.1	0.018	U	0.017	U	0.029	U
p-Diethylbenzene	--	--	0.0002	U	0.00019	U	0.00032	U
p-Ethyltoluene	--	--	0.00015	U	0.00015	U	0.00025	U
1,2,4,5-Tetramethylbenzene	--	--	0.00016	U	0.00016	U	0.00026	U
Ethyl ether	--	--	0.00032	U	0.00031	U	0.00052	U
trans-1,4-Dichloro-2-butene	--	--	0.00048	U	0.00047	U	0.00078	U

NY-UNRES = New York State Part 375 Unrestricted Use SCOs
NY-RESR = New York State Part 375 Residential Criteria, NY Restricted Use SCOs
SCO = Soil Cleanup Objective
MDL = Maximum Detection Limit
RL = Reporting Limit
Qual = Laboratory Data Qualifier
Cells highlighted in yellow indicate concentrations above Unrestricted Use SCOs
Cells shaded in grey indicate detection limits above Unrestricted Use SCOs
For U qualified entries, the MDL is shown
U = not detected at or above the MDL
For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
Results and MDL values are in milligrams per kilogram (mg/kg)
Soil sample depths shown in feet below grade
-- = No standard

Table 2 - Semi Volatile Organic Compounds (SVOCs) in Soil
911-917 Atlantic Avenue -- Brooklyn, NY
Due Dilligence Investigation

LOCATION	Soil Cleanup Objectives (SCOs)		SS1 (0-2)		SS2 (0-2)		SS3 (0-2)	
SAMPLING DATE			1/9/2015		1/9/2015		1/9/2015	
LAB SAMPLE ID			L1500485-01		L1500485-02		L1500485-03	
Units in mg/kg	NY-RESR	NY-UNRES	Results	Qual	Results	Qual	Results	Qual
Semivolatile Organic Compounds								
Acenaphthene	100	20	0.041	U	0.041	U	0.066	U
1,2,4-Trichlorobenzene	--	--	0.066	U	0.44		0.1	U
Hexachlorobenzene	0.41	0.33	0.037	U	0.037	U	0.06	U
Bis(2-chloroethyl)ether	--	--	0.056	U	0.056	U	0.09	U
2-Chloronaphthalene	--	--	0.065	U	0.15	J	0.1	U
1,2-Dichlorobenzene	100	1.1	0.066	U	0.45		0.1	U
1,3-Dichlorobenzene	17	2.4	0.063	U	0.5		0.1	U
1,4-Dichlorobenzene	9.8	1.8	0.061	U	0.29		0.098	U
3,3'-Dichlorobenzidine	--	--	0.053	U	0.053	U	0.086	U
2,4-Dinitrotoluene	--	--	0.043	U	0.043	U	0.069	U
2,6-Dinitrotoluene	1.03		0.051	U	0.051	U	0.082	U
Fluoranthene	100	100	0.43		0.24		0.85	
4-Chlorophenyl phenyl ether	--	--	0.061	U	0.06	U	0.098	0.32
4-Bromophenyl phenyl ether	--	--	0.046	U	0.046	U	0.074	0.32
Bis(2-chloroisopropyl)ether	--	--	0.071	U	0.07	U	0.11	0.39
Bis(2-chloroethoxy)methane	--	--	0.061	U	0.06	U	0.097	0.35
Hexachlorobutadiene	--	--	0.057	U	0.056	U	0.091	0.32
Hexachlorocyclopentadiene	--	--	0.13	U	0.13	U	0.21	0.92
Hexachloroethane	--	--	0.036	U	0.036	U	0.058	0.26
Isophorone	100	--	0.053	U	0.053	U	0.086	0.29
Naphthalene	100	12	0.067	U	0.22		0.11	0.32
Nitrobenzene	3.7	--	0.048	U	0.047	U	0.077	0.29
NitrosoDiPhenylAmine(NDPA)/DPA	--	--	0.042	U	0.042	U	0.068	0.26
n-Nitrosodi-n-propylamine	--	--	0.06	U	0.059	U	0.096	0.32
Bis(2-Ethylhexyl)phthalate	50	--	0.18	J	0.052	U	0.78	
Butyl benzyl phthalate	100	--	0.039	U	0.039	U	0.16J	J
Di-n-butylphthalate	100	--	0.071	J	0.038	U	0.099J	J
Di-n-octylphthalate	100	--	0.049	U	0.049	U	0.079	U
Diethyl phthalate	100	--	0.042	U	0.042	U	0.068	U
Dimethyl phthalate	100	--	0.051	U	0.05	U	0.082	U
Benzo(a)anthracene	1	1	0.25		0.1	J	0.38	
Benzo(a)pyrene	1	1	0.26		0.085	J	0.37	
Benzo(b)fluoranthene	1	1	0.34		0.13		0.51	
Benzo(k)fluoranthene	1	0.8	0.12		0.038	U	0.2	
Chrysene	1	1	0.25		0.11	J	0.42	
Acenaphthylene	100	100	0.038	U	0.099	J	0.06	U
Anthracene	100	100	0.06	J	0.046	J	0.1J	
Benzo(ghi)perylene	100	100	0.19		0.063	J	0.26	
Fluorene	100	30	0.058	U	0.057	U	0.092	U
Phenanthrene	100	100	0.29		0.2		0.55	
Dibenzo(a,h)anthracene	0.33	0.33	0.051J	J	0.038	U	0.063	J
Indeno(1,2,3-cd)Pyrene	0.5	0.5	0.21		0.062	J	0.29	
Pyrene	100	100	0.4		0.19		0.72	
Biphenyl	--	--	0.066	U	0.066	U	0.11	U
4-Chloroaniline	100	--	0.053	U	0.052	U	0.085	U
2-Nitroaniline	--	--	0.057	U	0.056	U	0.091	U
3-Nitroaniline	--	--	0.055	U	0.055	U	0.089	U
4-Nitroaniline	--	--	0.054	U	0.054	U	0.087	U
Dibenzofuran	14	7	0.067	U	0.066	U	0.11	U
2-Methylnaphthalene	0.41	--	0.064	U	0.084	J	0.1	U
1,2,4,5-Tetrachlorobenzene	--	--	0.062	U	0.062	U	0.1	U
Acetophenone	--	--	0.062	U	0.062	U	0.1	U
2,4,6-Trichlorophenol	--	--	0.038	U	0.038	U	0.061	U
P-Chloro-M-Cresol	--	--	0.058	U	0.058	U	0.093	U
2-Chlorophenol	100	--	0.061	U	0.06	U	0.097	U
2,4-Dichlorophenol	100	--	0.065	U	0.064	U	0.1	U
2,4-Dimethylphenol	--	--	0.06	U	0.059	U	0.096	U
2-Nitrophenol	--	--	0.063	U	0.062	U	0.1	U
4-Nitrophenol	--	--	0.065	U	0.064	U	0.1	U
2,4-Dinitrophenol	100	--	0.27	U	0.27	U	0.44	U
4,6-Dinitro-o-cresol	--	--	0.073	U	0.073	U	0.12	U
Pentachlorophenol	2.4	0.8	0.043	U	0.042	U	0.069	U
Phenol	100	0.33	0.059	U	0.059	U	0.095	U
2-Methylphenol	100	0.33	0.065	U	0.064	U	0.1	U
3-Methylphenol/4-Methylphenol	34	0.33	0.066	U	0.065	U	0.1	U
2,4,5-Trichlorophenol	100	--	0.065	U	0.064	U	0.1	U
Benzoic Acid	100	--	0.2	U	0.2	U	0.32	U
Benzyl Alcohol	--	--	0.062	U	0.061	U	0.099	U
Carbazole	--	--	0.043	U	0.043	U	0.069	U

NY-UNRES = New York State Part 375 Unrestricted Use SCOs
NY-RESR = New York State Part 375 Residential Criteria, NY Restricted Use SCOs
SCO = Soil Cleanup Objective
MDL = Maximum Detection Limit
RL = Reporting Limit
Qual = Laboratory Data Qualifier
Cells highlighted in yellow indicate concentrations above Unrestricted Use SCOs
Cells shaded in grey indicate detection limits above Unrestricted Use SCOs
For U qualified entries, the MDL is shown
U = not detected at or above the MDL
For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
Results and MDL values are in milligrams per kilogram (mg/kg)
Soil sample depths shown in feet below grade
-- = No standard

Table 3 - Total Metals in Soil
911-917 Atlantic Avenue -- Brooklyn, NY
Due Dilligence Investigation

LOCATION SAMPLING DATE LAB SAMPLE ID	Soil Cleanup Objectives (SCOs)		SS1 (0-2) 1/9/2015 L1500485-01		SS2 (0-2) 1/9/2015 L1500485-02		SS3 (0-2) 1/9/2015 L1500485-03	
Units in mg/kg **Total Metals**	**NY-RESR**	**NY-UNRES**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**
Aluminum, Total	--	--	3100		2500		2700	
Antimony, Total	--	--	4	J	1.4	J	5.6	J
Arsenic, Total	16	13	13		11		28	
Barium, Total	350	350	320		61		640	
Beryllium, Total	14	7.2	0.34	J	0.26	J	0.54	J
Cadmium, Total	2.5	2.5	2.2		0.34	J	2.8	
Calcium, Total	--	--	5900		26000		3400	
Chromium, Total	--	--	19		6.3		34	
Cobalt, Total	30	--	5.5		3.5		8.8	
Copper, Total	270	50	170		51		170	
Iron, Total	2000	--	14000		5300		30000	
Lead, Total	400	63	550		46		1100	
Magnesium, Total	--	--	920		2900		510	
Manganese, Total	2000	1600	150		64		230	
Mercury, Total	0.81	0.18	0.23		0.09		9.6	
Nickel, Total	140	30	24		9.1		22	
Potassium, Total	--	--	380		350		290	J
Selenium, Total	36	3.9	0.64	J	0.65	J	2.2	J
Silver, Total	36	2	0.44	J	0.19	U	1.8	
Sodium, Total	--	--	200		99	J	110	J
Thallium, Total	--	--	0.37	U	0.38	U	0.59	U
Vanadium, Total	100	--	26		18		51	
Zinc, Total	2200	109	510		150		410	

NY-UNRES = New York State Part 375 Unrestricted Use SCOs
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MDL = Maximum Detection Limit
RL = Reporting Limit
Qual = Laboratory Data Qualifier
Cells highlighted in yellow indicate concentrations above Unrestricted Use SCOs
Cells highlited in orange indicate concentrations above the Unrestricted Use and Restricted-Residential Use SCOs
Cells shaded in grey indicate detection limits above Unrestricted Use SCOs
For U qualified entries, the MDL is shown
U = not detected at or above the MDL
For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
Results and MDL values are in milligrams per kilogram (mg/kg)
Soil sample depths shown in feet below grade
-- = No standard

Table 4 - Pesticides and Poly Chlorinated Biphenyls in Soil
911-917 Atlantic Avenue -- Brooklyn, NY
Due Dilligence Investigation

LOCATION SAMPLING DATE LAB SAMPLE ID	Soil Cleanup Objectives (SCOs)		SS1 (0-2) 1/9/2015 L1500485-01		SS2 (0-2) 1/9/2015 L1500485-02		SS3 (0-2) 1/9/2015 L1500485-03	
Units in mg/kg **Pesticides**	**NY-RESR**	**NY-UNRES**	**Result**	**Qual**	**Result**	**Qual**	**Results**	**Qual**
Delta-BHC	100	0.04	0.000372	U	0.000372	U	0.000588	U
Lindane	0.28	0.1	0.000354	U	0.000354	U	0.00056	U
Alpha-BHC	0.097	0.02	0.000225	U	0.000225	U	0.000356	U
Beta-BHC	0.072	0.036	0.00072	U	0.00072	U	0.00114	U
Heptachlor	0.42	0.042	0.000748	J	0.000524	J	0.000761	J
Aldrin	0.019	0.005	0.000669	U	0.000669	U	0.00106	U
Heptachlor epoxide	0.077	--	0.00107	U	0.00107	U	0.00169	U
Endrin	2.2	0.014	0.000324	U	0.000325	U	0.000513	U
Endrin ketone	--	--	0.000489	U	0.000489	U	0.000774	U
Dieldrin	0.039	0.005	0.000594	U	0.000594	U	0.000939	U
4,4'-DDE	1.8	0.0033	0.00228		0.000439	U	0.00377	
4,4'-DDD	2.6	0.0033	0.000678	U	0.000678	U	0.00107	U
4,4'-DDT	1.7	0.0033	0.00239	J	0.00153	U	0.0108	
Endosulfan I	4.8	2.4	0.000449	U	0.000449	U	0.00071	U
Endosulfan II	4.8	2.4	0.000635	U	0.000635	U	0.001	U
Endosulfan sulfate	4.8	2.4	0.000377	U	0.000377	U	0.000596	U
Methoxychlor	100	--	0.00111	U	0.00111	U	0.00175	U
Toxaphene	--	--	0.00997	U	0.00998	U	0.0158	U
cis-Chlordane	0.91	0.094	0.00105	J	0.000662	U	0.00182	J
trans-Chlordane	0.54	--	0.00109	J	0.000627	U	0.0014	J
Chlordane	--	--	0.0118	J	0.00629	U	0.0218	J
Polychlorinated Biphenyls								
Aroclor 1016	1	0.1	0.00307	U	0.00316	U	0.00517	U
Aroclor 1221	1	0.1	0.00359	U	0.00368	U	0.00604	U
Aroclor 1232	1	0.1	0.00456	U	0.00468	U	0.00767	U
Aroclor 1242	1	0.1	0.00476	U	0.00489	U	0.00802	U
Aroclor 1248	1	0.1	0.00328	U	0.00337	U	0.00553	U
Aroclor 1254	1	0.1	0.012	J	0.00328	U	0.0557	J
Aroclor 1260	1	0.1	0.0342	J	0.011	J	0.142	
Aroclor 1262	1	0.1	0.00193	U	0.00198	U	0.00325	U
Aroclor 1268	1	0.1	0.00564	U	0.00579	U	0.00949	U
PCBs, Total	--	--	0.0462	J	0.011	J	0.198	J

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For J qualified entries, the estimated concentration is shown
J = estimated value, indicating the detected value is below the RL, but above the MDL
Results and MDL values are in milligrams per kilogram (mg/kg)
Soil sample depths shown in feet below grade
-- = No standard

Table 5 - Volatile Organic Compounds (VOCs) in Soil Vapor
911-917 Atlantic Avenue -- Brooklyn, NY
Due Dilligence Investigation

LOCATION	NYSDOH Matrix	NYSDOH Air Guidance Value	NYSDOH 2003 Fuel Oil Indoor Air Value	EPA 2001 Indoor Air Value	HEI 2005 Indoor Air Value	911 SV-1		911 SV-2		915 SV-3		915 SV-4		917 SV-5		917 SV-6	
SAMPLING DATE						1/9/2015		1/9/2015		1/9/2015		1/9/2015		1/9/2015		1/9/2015	
LAB SAMPLE ID						L1500504-01		L1500504-02		L1500504-03		L1500504-04		L1500504-05		L1500504-06	
Volatile Organic Compounds (VOCs)						Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Units: ug/m3																	
Dichlorodifluoromethane	--	--	10	16.5	--	1.74		2.58		1.84		4.52		8.21		2.75	
Chloromethane	--	--	4.2	1.1	--	0.413	U	0.653		0.681		0.413	U	0.413	U	0.611	
Freon-114	--	--	0.4	<6.8	--	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Vinyl chloride	1	--	0.4	<1.9	--	0.51	U	0.511	U	0.511	U	0.511	U	0.511	U	0.511	U
1,3-Butadiene	--	--	--	<3.0	--	1.61		8.78		0.442	U	0.442	U	0.529		0.442	U
Bromomethane	--	--	0.5	<1.7	--	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U
Chloroethane	--	--	0.4	<1.1	--	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U
Ethanol	--	--	34	210.0	--	65.8		73.5		47.7		96.3		68.8		138	
Vinyl bromide	--	--	--	--	--	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U
Acetone	--	--	115	98.9	45.8	87.4		75.8		53.7		77.9		82.2		127	
Trichlorofluoromethane	--	--	12	18.1	--	1.55		1.21		1.12	U	2.77		7.19		1.31	
Isopropanol	--	--	--	250	--	34.9		25.6		20.2		31.5		26.8		34.9	
1,1-Dichloroethene	2	--	0.4	<1.4	--	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
Tertiary butyl Alcohol	--	--	--	--	--	2.49		2.24		1.52	U	1.52	U	2.08		1.78	
Methylene chloride	--	60	16	10.0	7.5	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U
3-Chloropropene	--	--	--	--	--	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U
Carbon disulfide	--	--	--	4.2	--	1.37		2.69		0.707		1.88		1.12		0.623	U
Freon-113	--	--	2.5	1.6	--	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U
trans-1,2-Dichloroethene	--	--	--	--	--	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
1,1-Dichloroethane	--	--	0.4	<0.7	--	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U
Methyl tert butyl ether	--	--	14	11.5	36	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U
2-Butanone	--	--	16.0	12.0	--	5.07		3.07		2.51		4.81		3.57		5.25	
cis-1,2-Dichloroethene	2	--	0.4	<1.9	--	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
Ethyl Acetate	--	--	--	5.4	--	2.09		1.8	U	1.8	U	1.8	U	1.8	U	2.35	
Chloroform	--	--	1.2	1.1	6.34	4.18		0.977	U	0.977	U	0.977	U	0.977	U	0.977	U
Tetrahydrofuran	--	--	0.8	--	--	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U
1,2-Dichloroethane	--	--	0.4	<0.9	--	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U
n-Hexane	--	--	14	10.2	--	1.73		1.72		0.74		3.5		1.28		1.08	
1,1,1-Trichloroethane	2	--	0.6	20.6	--	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U
Benzene	--	--	13	9.4	10	1.43		0.91		0.716		0.722		1.25		1.41	
Carbon tetrachloride	1	--	1.3	<1.3	1.1	1.26	U	1.26	U	1.26	U	1.26	U	1.26	U	1.26	U
Cyclohexane	--	--	6.3	--	--	0.688	U	0.688	U	0.688	U	0.688	U	0.688	U	0.688	U
1,2-Dichloropropane	--	--	0.4	<1.6	--	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U
Bromodichloromethane	--	--	5	--	--	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U
1,4-Dioxane	--	--	--	--	--	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U
Trichloroethene	1	5	0.5	4.2	1.36	1.07	U	1.07	U	1.07	U	1.07	U	1.07	U	1.07	U
2,2,4-Trimethylpentane	--	--	5.0	--	--	0.934	U	0.934	U	0.934	U	0.934	U	0.934	U	0.934	U
Heptane	--	--	18	--	--	1.48		0.82	U	0.82	U	0.828		1		1.46	
cis-1,3-Dichloropropene	--	--	0.4	<2.3	--	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U
4-Methyl-2-pentanone	--	--	--	6.0	--	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U
trans-1,3-Dichloropropene	--	--	--	<1.3	--	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U
1,1,2-Trichloroethane	--	--	0.3	<1.5	--	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U
Toluene	--	--	5.1	43.0	39.8	4.45		3.31		2.24		1.99		3.88		2.93	
2-Hexanone	--	--	--	--	--	0.82	U	0.82	U	0.996		0.82	U	0.82	U	0.82	U
Dibromochloromethane	--	--	--	--	--	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
1,2-Dibromoethane	--	--	0.4	<1.5	--	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U
Tetrachloroethene	2	30	100	15.9	6.01	4.88		3.1		1.36	U	2.83		2.56		1.97	
Chlorobenzene	--	--	0.4	<0.9	--	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U
Ethylbenzene	--	--	6.4	5.7	7.62	2.49		0.869	U	0.869	U	0.869	U	0.869	U	0.869	U
p/m-Xylene	--	--	1.0	22.2	22.2	10.8		2.59		1.74	U	1.74	U	2.31		2.18	
Bromoform	--	--	--	--	--	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U
Styrene	--	--	1.4	1.9	5.13	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U
1,1,2,2-Tetrachloroethane	--	--	0.4	--	--	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U
o-Xylene	--	--	7.1	7.9	7.24	4.91		0.886		0.869	U	0.869	U	0.869	U	0.869	U
4-Ethyltoluene	--	--	--	3.6	--	24.7		0.983	U	0.983	U	0.983	U	0.983	U	0.983	U
1,3,5-Trimethylbenzene	--	--	3.9	3.7	--	21		0.983	U	0.983	U	0.983	U	0.983	U	0.983	U
1,2,4-Trimethylbenzene	--	--	1.9	9.5	--	55.1		0.983	U	0.983	U	0.983	U	0.983	U	0.983	U
Benzyl chloride	--	--	--	--	--	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U
1,3-Dichlorobenzene	--	--	0.5	<2.4	--	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
1,4-Dichlorobenzene	--	--	1.2	5.5	344	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
1,2-Dichlorobenzene	--	--	0.5	<1.2	--	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
1,2,4-Trichlorobenzene	--	--	0.5	<6.8	--	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U
Hexachlorobutadiene	--	--	0.5	<6.8	--	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U

NYSDOH AGV = New York State Department of Health Air Guidance Values
NYSDOH Matrix = number of the Soil Vapor/Indoor Air decision matrix from the NYSDOH Soil Vapor Guidance, October 2006
NYSDOH AGV and Matrix values from NYSDOH Soil Vapor Guidance, Octpber 2006, except for the revised NYSDOH AGV
for PCE from Fact Sheet: Tetrachloroethene (PERC) in Indoor & Outdoor Air, September 2013
NYSDOH 2003 Fuel Oil Indoor Air = New York State Department of Health indoor air guidance value, Upper Fence background level
EPA 2001 Indoor Air = Environmental Protection Agency indoor air guidance value, 90th percentile background level
HEI 2005 = Health Effects Institute air guidance value, 95th percentile background level
Cells highlighted in yellow and in bold indicate concentrations above the NYSDOH AGV
Cells highlighted in yellow indicate concentrations above the highest of the background levels
Cells shaded in gray indicate MDL values above the AGV or the highest of the background levels
RL = Reporting Limit
Qual = Laboratory Data Qualifier
For U qualified entries, the RL is shown
U = not detected at or above the RL
Results and RL values are in micrograms per cubic meter (ug/m3)
Matrix actions are described in the report narrative and the NYSDOH Soil Vapor Guidance, October 2006
-- = No Standard

Attachment 1
Laboratory Deliverables

ANALYTICAL REPORT

Lab Number:	L1501140
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 1004 New York City, NY
ATTN:	Matt Carroll
Phone:	(646) 606-2332
Project Name:	911-917 ATLANTIC AVE.
Project Number:	917 ATLANTIC
Report Date:	01/22/15

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 911-917 ATLANTIC AVE.
Project Number: 917 ATLANTIC

Lab Number: L1501140
Report Date: 01/22/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1501140-01	SS1 (0-2)	SOIL	911-917 ATLANTIC AVE.	01/09/15 14:15	01/09/15
L1501140-02	SS3 (0-2)	SOIL	911-917 ATLANTIC AVE.	01/09/15 14:55	01/09/15

Project Name: 911-917 ATLANTIC AVE. **Lab Number:** L1501140
Project Number: 917 ATLANTIC **Report Date:** 01/22/15

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	911-917 ATLANTIC AVE.	**Lab Number:**	L1501140
Project Number:	917 ATLANTIC	**Report Date:**	01/22/15

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative Date: 01/22/15

METALS

Project Name:	911-917 ATLANTIC AVE.	**Lab Number:**	L1501140
Project Number:	917 ATLANTIC	**Report Date:**	01/22/15

SAMPLE RESULTS

Lab ID:	L1501140-01	Date Collected:	01/09/15 14:15
Client ID:	SS1 (0-2)	Date Received:	01/09/15
Sample Location:	911-917 ATLANTIC AVE.	Field Prep:	Not Specified
Matrix:	Soil	TCLP/SPLP Ext. Date:	01/19/15 20:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab											
Lead, TCLP	0.20	J	mg/l	0.50	0.02	1	01/21/15 12:02	01/21/15 16:02	EPA 3015	1,6010C	JH

Project Name: 911-917 ATLANTIC AVE.
Lab Number: L1501140
Project Number: 917 ATLANTIC
Report Date: 01/22/15

SAMPLE RESULTS

Lab ID: L1501140-02
Client ID: SS3 (0-2)
Sample Location: 911-917 ATLANTIC AVE.
Matrix: Soil
Date Collected: 01/09/15 14:55
Date Received: 01/09/15
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 01/19/15 20:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab											
Lead, TCLP	0.48	J	mg/l	0.50	0.02	1	01/21/15 12:02	01/21/15 23:29	EPA 3015	1,6010C	JH

Project Name: 911-917 ATLANTIC AVE.
Project Number: 917 ATLANTIC
Lab Number: L1501140
Report Date: 01/22/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab for sample(s): 01-02 Batch: WG757240-1										
Lead, TCLP	ND		mg/l	0.50	0.02	1	01/21/15 12:02	01/21/15 12:59	1,6010C	JH

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 01/19/15 20:33

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911-917 ATLANTIC AVE.

Project Number: 917 ATLANTIC

Lab Number: L1501140

Report Date: 01/22/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01-02 Batch: WG757240-2								
Lead, TCLP	98		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 911-917 ATLANTIC AVE.
Project Number: 917 ATLANTIC

Lab Number: L1501140
Report Date: 01/22/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG757240-4 QC Sample: L1500919-01 Client ID: MS Sample												
Lead, TCLP	0.73	5.1	5.8	99		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911-917 ATLANTIC AVE.
Project Number: 917 ATLANTIC

Lab Number: L1501140
Report Date: 01/22/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG757240-3 QC Sample: L1500919-01 Client ID: DUP Sample						
Lead, TCLP	0.73	0.69	mg/l	6		20

Project Name: 911-917 ATLANTIC AVE.
Project Number: 917 ATLANTIC

Lab Number: L1501140
Report Date: 01/22/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1501140-01A	Glass 250ml/8oz unpreserved	A	N/A	3.9	Y	Absent	-
L1501140-01X	Plastic 120ml HNO3 preserved spl	A	<2	3.9	Y	Absent	PB-CI(180)
L1501140-01X9	Tumble Vessel	A	N/A	3.9	Y	Absent	-
L1501140-02A	Glass 250ml/8oz unpreserved	A	N/A	3.9	Y	Absent	-
L1501140-02X	Plastic 120ml HNO3 preserved spl	A	<2	3.9	Y	Absent	PB-CI(180)
L1501140-02X9	Tumble Vessel	A	N/A	3.9	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name:	911-917 ATLANTIC AVE.	**Lab Number:**	L1501140
Project Number:	917 ATLANTIC	**Report Date:**	01/22/15

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: DU Report with 'J' Qualifiers

Project Name:	911-917 ATLANTIC AVE.	**Lab Number:**	L1501140
Project Number:	917 ATLANTIC	**Report Date:**	01/22/15

Data Qualifiers

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-9288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 10-Jan-15

ALPHA Job #: L1501140

Client Information

Client: Tenen
Address: 121 W 27th St.
Phone: 646 06 2332
Fax:
Email: mcarroll@tenen-env.com

Project Information

Project Name: 917 Atlantic Ave
Project Location:
Project # 917 Atlantic
(Use Project name as Project #)
Project Manager: Matt Carroll
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date: 16-Jan-15
Rush (only if pre approved) ☐ # of Days: 1/22/15

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☑ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

ANALYSIS

TCLP-Pb

VOCs | SVOCs, PCBs | TAL Metals

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs, PCBs	TAL Metals		Sample Specific Comments
01140-01	SS1 (0-2')	1/9/15	1415	Soil	KM	✓	✓	✓	X	
01140-02	SS2 (0-2')	↓	1445	↓	↓	✓	✓	✓		
01140-03	SS3 (0-2')	↓	1455	↓	↓	✓	✓	✓	X	

Container Type: A | A | A
Preservative: A | A | A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	1/9/15 1630	AAC	1/9/15 1630
	1/9/15 1910	Tom Tenen	1-9-15 1910
Tom Tenen	1-10-15 0033	Graham Phillips	10-Jan-15 0033

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONSTITUTIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1500504
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 1004 New York City, NY
ATTN:	Matt Carroll
Phone:	(646) 606-2332
Project Name:	911-917 ATLANTIC AVE
Project Number:	917 ATLANTIC AVE
Report Date:	01/16/15

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE

Lab Number: L1500504
Report Date: 01/16/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1500504-01	911 SV-1	SOIL_VAPOR	911-917 ATLANTIC AVE	01/09/15 11:08	01/09/15
L1500504-02	911 SV-2	SOIL_VAPOR	911-917 ATLANTIC AVE	01/09/15 11:40	01/09/15
L1500504-03	915 SV-3	SOIL_VAPOR	911-917 ATLANTIC AVE	01/09/15 12:30	01/09/15
L1500504-04	915 SV-4	SOIL_VAPOR	911-917 ATLANTIC AVE	01/09/15 12:55	01/09/15
L1500504-05	917 SV-5	SOIL_VAPOR	911-917 ATLANTIC AVE	01/09/15 14:10	01/09/15
L1500504-06	917 SV-6	SOIL_VAPOR	911-917 ATLANTIC AVE	01/09/15 14:30	01/09/15

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE

Lab Number: L1500504
Report Date: 01/16/15

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	911-917 ATLANTIC AVE	**Lab Number:**	L1500504
Project Number:	917 ATLANTIC AVE	**Report Date:**	01/16/15

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on January 8, 2015. The canister certification results are provided as an addendum.

The sample designated 917 SV-5 (L1500504-05) had a RPD for the pre- and post-flow controller calibration check (78% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 17.7 mL/minute; the final flow rate was 7.8 mL/minute. The final pressure recorded by the laboratory of the associated canister was -5.1 inches of mercury.

The sample designated 917 SV-6 (L1500504-06) had a RPD for the pre- and post-flow controller calibration check (65% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 17.9 mL/minute; the final flow rate was 35.0 mL/minute. The final pressure recorded by the laboratory of the associated canister was -5.7 inches of mercury.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 01/16/15

AIR

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-01
Client ID: 911 SV-1
Sample Location: 911-917 ATLANTIC AVE
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 01/15/15 20:25
Analyst: RY

Date Collected: 01/09/15 11:08
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.352	0.200	--	1.74	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	0.728	0.200	--	1.61	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	34.9	2.50	--	65.8	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	36.8	1.00	--	87.4	2.38	--		1
Trichlorofluoromethane	0.275	0.200	--	1.55	1.12	--		1
Isopropanol	14.2	0.500	--	34.9	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.822	0.500	--	2.49	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.440	0.200	--	1.37	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.72	0.200	--	5.07	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	0.580	0.500	--	2.09	1.80	--		1

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-01
Client ID: 911 SV-1
Sample Location: 911-917 ATLANTIC AVE
Date Collected: 01/09/15 11:08
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	0.856	0.200	--	4.18	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.491	0.200	--	1.73	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.448	0.200	--	1.43	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.360	0.200	--	1.48	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.18	0.200	--	4.45	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.720	0.200	--	4.88	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.573	0.200	--	2.49	0.869	--		1
p/m-Xylene	2.48	0.400	--	10.8	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-01
Client ID: 911 SV-1
Sample Location: 911-917 ATLANTIC AVE
Date Collected: 01/09/15 11:08
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.13	0.200	--	4.91	0.869	--		1
4-Ethyltoluene	5.02	0.200	--	24.7	0.983	--		1
1,3,5-Trimethylbenzene	4.28	0.200	--	21.0	0.983	--		1
1,2,4-Trimethylbenzene	11.2	0.200	--	55.1	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	78		60-140
Bromochloromethane	81		60-140
chlorobenzene-d5	92		60-140

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-02
Client ID: 911 SV-2
Sample Location: 911-917 ATLANTIC AVE
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 01/15/15 20:57
Analyst: RY

Date Collected: 01/09/15 11:40
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.521	0.200	--	2.58	0.989	--		1
Chloromethane	0.316	0.200	--	0.653	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	3.97	0.200	--	8.78	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	39.0	2.50	--	73.5	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	31.9	1.00	--	75.8	2.38	--		1
Trichlorofluoromethane	0.215	0.200	--	1.21	1.12	--		1
Isopropanol	10.4	0.500	--	25.6	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.738	0.500	--	2.24	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.863	0.200	--	2.69	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.04	0.200	--	3.07	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-02
Client ID: 911 SV-2
Sample Location: 911-917 ATLANTIC AVE
Date Collected: 01/09/15 11:40
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.487	0.200	--	1.72	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.285	0.200	--	0.910	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.879	0.200	--	3.31	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.457	0.200	--	3.10	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.597	0.400	--	2.59	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-02
Client ID: 911 SV-2
Sample Location: 911-917 ATLANTIC AVE
Date Collected: 01/09/15 11:40
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.204	0.200	--	0.886	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	82		60-140
Bromochloromethane	80		60-140
chlorobenzene-d5	92		60-140

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-03
Client ID: 915 SV-3
Sample Location: 911-917 ATLANTIC AVE
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 01/15/15 21:29
Analyst: RY

Date Collected: 01/09/15 12:30
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.373	0.200	--	1.84	0.989	--		1
Chloromethane	0.330	0.200	--	0.681	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	25.3	2.50	--	47.7	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	22.6	1.00	--	53.7	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	8.23	0.500	--	20.2	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.227	0.200	--	0.707	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.852	0.200	--	2.51	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-03
Client ID: 915 SV-3
Sample Location: 911-917 ATLANTIC AVE
Date Collected: 01/09/15 12:30
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.210	0.200	--	0.740	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.224	0.200	--	0.716	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.595	0.200	--	2.24	0.754	--		1
2-Hexanone	0.243	0.200	--	0.996	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-03
Client ID: 915 SV-3
Sample Location: 911-917 ATLANTIC AVE
Date Collected: 01/09/15 12:30
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	79		60-140
Bromochloromethane	79		60-140
chlorobenzene-d5	90		60-140

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-04
Client ID: 915 SV-4
Sample Location: 911-917 ATLANTIC AVE
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 01/15/15 22:00
Analyst: RY

Date Collected: 01/09/15 12:55
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.915	0.200	--	4.52	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	51.1	2.50	--	96.3	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	32.8	1.00	--	77.9	2.38	--		1
Trichlorofluoromethane	0.493	0.200	--	2.77	1.12	--		1
Isopropanol	12.8	0.500	--	31.5	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.604	0.200	--	1.88	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.63	0.200	--	4.81	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-04
Client ID: 915 SV-4
Sample Location: 911-917 ATLANTIC AVE
Date Collected: 01/09/15 12:55
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.993	0.200	--	3.50	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.226	0.200	--	0.722	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.202	0.200	--	0.828	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.527	0.200	--	1.99	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.418	0.200	--	2.83	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-04
Client ID: 915 SV-4
Sample Location: 911-917 ATLANTIC AVE
Date Collected: 01/09/15 12:55
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	77		60-140
Bromochloromethane	85		60-140
chlorobenzene-d5	89		60-140

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-05
Client ID: 917 SV-5
Sample Location: 911-917 ATLANTIC AVE
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 01/15/15 22:32
Analyst: RY

Date Collected: 01/09/15 14:10
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.66	0.200	--	8.21	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	0.239	0.200	--	0.529	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	36.5	2.50	--	68.8	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	34.6	1.00	--	82.2	2.38	--		1
Trichlorofluoromethane	1.28	0.200	--	7.19	1.12	--		1
Isopropanol	10.9	0.500	--	26.8	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.687	0.500	--	2.08	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.360	0.200	--	1.12	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.21	0.200	--	3.57	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-05
Client ID: 917 SV-5
Sample Location: 911-917 ATLANTIC AVE
Date Collected: 01/09/15 14:10
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.363	0.200	--	1.28	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.392	0.200	--	1.25	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.245	0.200	--	1.00	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.03	0.200	--	3.88	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.377	0.200	--	2.56	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.532	0.400	--	2.31	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-05
Client ID: 917 SV-5
Sample Location: 911-917 ATLANTIC AVE
Date Collected: 01/09/15 14:10
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	78		60-140
Bromochloromethane	81		60-140
chlorobenzene-d5	88		60-140

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-06
Client ID: 917 SV-6
Sample Location: 911-917 ATLANTIC AVE
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 01/15/15 23:04
Analyst: RY

Date Collected: 01/09/15 14:30
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.556	0.200	--	2.75	0.989	--		1
Chloromethane	0.296	0.200	--	0.611	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	73.1	2.50	--	138	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	53.6	1.00	--	127	2.38	--		1
Trichlorofluoromethane	0.234	0.200	--	1.31	1.12	--		1
Isopropanol	14.2	0.500	--	34.9	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.588	0.500	--	1.78	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.78	0.200	--	5.25	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	0.651	0.500	--	2.35	1.80	--		1

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-06
Client ID: 917 SV-6
Sample Location: 911-917 ATLANTIC AVE
Date Collected: 01/09/15 14:30
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.307	0.200	--	1.08	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.441	0.200	--	1.41	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.356	0.200	--	1.46	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.778	0.200	--	2.93	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.291	0.200	--	1.97	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.501	0.400	--	2.18	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

SAMPLE RESULTS

Lab ID: L1500504-06
Client ID: 917 SV-6
Sample Location: 911-917 ATLANTIC AVE
Date Collected: 01/09/15 14:30
Date Received: 01/09/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	76		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	90		60-140

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/15/15 14:27

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG756031-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/15/15 14:27

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG756031-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE
Lab Number: L1500504
Report Date: 01/16/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/15/15 14:27

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG756031-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE

Lab Number: L1500504
Report Date: 01/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG756031-3								
Chlorodifluoromethane	86		-		70-130	-		
Propylene	102		-		70-130	-		
Propane	80		-		70-130	-		
Dichlorodifluoromethane	84		-		70-130	-		
Chloromethane	89		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	96		-		70-130	-		
Methanol	89		-		70-130	-		
Vinyl chloride	92		-		70-130	-		
1,3-Butadiene	96		-		70-130	-		
Butane	86		-		70-130	-		
Bromomethane	89		-		70-130	-		
Chloroethane	89		-		70-130	-		
Ethyl Alcohol	87		-		70-130	-		
Dichlorofluoromethane	86		-		70-130	-		
Vinyl bromide	94		-		70-130	-		
Acrolein	75		-		70-130	-		
Acetone	95		-		70-130	-		
Acetonitrile	80		-		70-130	-		
Trichlorofluoromethane	95		-		70-130	-		
iso-Propyl Alcohol	93		-		70-130	-		
Acrylonitrile	83		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911-917 ATLANTIC AVE

Project Number: 917 ATLANTIC AVE

Lab Number: L1500504

Report Date: 01/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG756031-3								
Pentane	84		-		70-130	-		
Ethyl ether	83		-		70-130	-		
1,1-Dichloroethene	94		-		70-130	-		
tert-Butyl Alcohol	90		-		70-130	-		
Methylene chloride	96		-		70-130	-		
3-Chloropropene	88		-		70-130	-		
Carbon disulfide	91		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	95		-		70-130	-		
trans-1,2-Dichloroethene	87		-		70-130	-		
1,1-Dichloroethane	93		-		70-130	-		
Methyl tert butyl ether	91		-		70-130	-		
Vinyl acetate	115		-		70-130	-		
2-Butanone	96		-		70-130	-		
cis-1,2-Dichloroethene	109		-		70-130	-		
Ethyl Acetate	92		-		70-130	-		
Chloroform	94		-		70-130	-		
Tetrahydrofuran	82		-		70-130	-		
2,2-Dichloropropane	86		-		70-130	-		
1,2-Dichloroethane	97		-		70-130	-		
n-Hexane	87		-		70-130	-		
Isopropyl Ether	85		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911-917 ATLANTIC AVE

Project Number: 917 ATLANTIC AVE

Lab Number: L1500504

Report Date: 01/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG756031-3								
Ethyl-Tert-Butyl-Ether	83		-		70-130	-		
1,1,1-Trichloroethane	90		-		70-130	-		
1,1-Dichloropropene	88		-		70-130	-		
Benzene	93		-		70-130	-		
Carbon tetrachloride	89		-		70-130	-		
Cyclohexane	88		-		70-130	-		
Tertiary-Amyl Methyl Ether	83		-		70-130	-		
Dibromomethane	88		-		70-130	-		
1,2-Dichloropropane	96		-		70-130	-		
Bromodichloromethane	92		-		70-130	-		
1,4-Dioxane	94		-		70-130	-		
Trichloroethene	94		-		70-130	-		
2,2,4-Trimethylpentane	92		-		70-130	-		
Methyl methacrylate	88		-		70-130	-		
Heptane	81		-		70-130	-		
cis-1,3-Dichloropropene	94		-		70-130	-		
4-Methyl-2-pentanone	86		-		70-130	-		
trans-1,3-Dichloropropene	84		-		70-130	-		
1,1,2-Trichloroethane	93		-		70-130	-		
Toluene	96		-		70-130	-		
1,3-Dichloropropane	93		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911-917 ATLANTIC AVE

Project Number: 917 ATLANTIC AVE

Lab Number: L1500504

Report Date: 01/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG756031-3								
2-Hexanone	104		-		70-130	-		
Dibromochloromethane	92		-		70-130	-		
1,2-Dibromoethane	99		-		70-130	-		
Butyl Acetate	93		-		70-130	-		
Octane	87		-		70-130	-		
Tetrachloroethene	96		-		70-130	-		
1,1,1,2-Tetrachloroethane	89		-		70-130	-		
Chlorobenzene	99		-		70-130	-		
Ethylbenzene	98		-		70-130	-		
p/m-Xylene	98		-		70-130	-		
Bromoform	91		-		70-130	-		
Styrene	100		-		70-130	-		
1,1,2,2-Tetrachloroethane	102		-		70-130	-		
o-Xylene	99		-		70-130	-		
1,2,3-Trichloropropane	93		-		70-130	-		
Nonane (C9)	86		-		70-130	-		
Isopropylbenzene	97		-		70-130	-		
Bromobenzene	94		-		70-130	-		
o-Chlorotoluene	92		-		70-130	-		
n-Propylbenzene	94		-		70-130	-		
p-Chlorotoluene	92		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE

Lab Number: L1500504
Report Date: 01/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG756031-3								
4-Ethyltoluene	90		-		70-130	-		
1,3,5-Trimethylbenzene	96		-		70-130	-		
tert-Butylbenzene	94		-		70-130	-		
1,2,4-Trimethylbenzene	102		-		70-130	-		
Decane (C10)	90		-		70-130	-		
Benzyl chloride	92		-		70-130	-		
1,3-Dichlorobenzene	101		-		70-130	-		
1,4-Dichlorobenzene	103		-		70-130	-		
sec-Butylbenzene	94		-		70-130	-		
p-Isopropyltoluene	86		-		70-130	-		
1,2-Dichlorobenzene	103		-		70-130	-		
n-Butylbenzene	100		-		70-130	-		
1,2-Dibromo-3-chloropropane	90		-		70-130	-		
Undecane	96		-		70-130	-		
Dodecane (C12)	104		-		70-130	-		
1,2,4-Trichlorobenzene	112		-		70-130	-		
Naphthalene	102		-		70-130	-		
1,2,3-Trichlorobenzene	112		-		70-130	-		
Hexachlorobutadiene	109		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE

Lab Number: L1500504
Report Date: 01/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG756031-5 QC Sample: L1500523-01 Client ID: DUP Sample						
Tetrachloroethene	804	804	ppbV	0		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE

Lab Number: L1500504
Report Date: 01/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG756031-5 QC Sample: L1500523-01 Client ID: DUP Sample					
Dichlorodifluoromethane	0.950	0.950	ppbV	0	25
Chloromethane	ND	ND	ppbV	NC	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC	25
Vinyl chloride	ND	ND	ppbV	NC	25
1,3-Butadiene	0.868	0.825	ppbV	5	25
Bromomethane	ND	ND	ppbV	NC	25
Chloroethane	ND	ND	ppbV	NC	25
Ethyl Alcohol	26.4	26.8	ppbV	2	25
Vinyl bromide	ND	ND	ppbV	NC	25
Acetone	180	179	ppbV	1	25
Trichlorofluoromethane	1.34	1.34	ppbV	0	25
iso-Propyl Alcohol	12.1	12.0	ppbV	1	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
tert-Butyl Alcohol	2.68	2.69	ppbV	0	25
Methylene chloride	2.86	2.97	ppbV	4	25
3-Chloropropene	ND	ND	ppbV	NC	25
Carbon disulfide	ND	ND	ppbV	NC	25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE

Lab Number: L1500504
Report Date: 01/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG756031-5 QC Sample: L1500523-01 Client ID: DUP Sample					
1,1-Dichloroethane	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
2-Butanone	10.2	10.3	ppbV	1	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Tetrahydrofuran	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	ND	ND	ppbV	NC	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
Benzene	0.988	1.01	ppbV	2	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
Trichloroethene	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25
Heptane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE

Lab Number: L1500504
Report Date: 01/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG756031-5 QC Sample: L1500523-01 Client ID: DUP Sample					
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	3.39	3.50	ppbV	3	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	2.38	2.26	ppbV	5	25
2-Hexanone	2.03	2.11	ppbV	4	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	806E	812E	ppbV	1	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	0.690	0.682	ppbV	1	25
p/m-Xylene	1.96	1.88	ppbV	4	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	3.03	3.06	ppbV	1	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	1.02	0.965	ppbV	6	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	0.968	0.960	ppbV	1	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE

Lab Number: L1500504
Report Date: 01/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG756031-5 QC Sample: L1500523-01 Client ID: DUP Sample					
Benzyl chloride	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name: 911-917 ATLANTIC AVE

Project Number: 917 ATLANTIC AVE

Lab Number: L1500504

Report Date: 01/16/15

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1500504-01	911 SV-1	0224	#20 SV	01/08/15	113482		-	-	-	Pass	18.0	19.5	8
L1500504-01	911 SV-1	1734	2.7L Can	01/08/15	113482	L1500056-01	Pass	-29.6	-3.2	-	-	-	-
L1500504-02	911 SV-2	0272	#30 SV	01/08/15	113482		-	-	-	Pass	18.0	18.2	1
L1500504-02	911 SV-2	371	2.7L Can	01/08/15	113482	L1500056-01	Pass	-29.6	-4.8	-	-	-	-
L1500504-03	915 SV-3	0210	#16 SV	01/08/15	113482		-	-	-	Pass	17.7	18.0	2
L1500504-03	915 SV-3	538	2.7L Can	01/08/15	113482	L1500056-01	Pass	-29.6	-3.7	-	-	-	-
L1500504-04	915 SV-4	0554	#30 SV	01/08/15	113482		-	-	-	Pass	17.8	17.8	0
L1500504-04	915 SV-4	494	2.7L Can	01/08/15	113482	L1500056-01	Pass	-29.6	-4.8	-	-	-	-
L1500504-05	917 SV-5	0073	#16 SV	01/08/15	113482		-	-	-	Pass	17.7	7.8	78
L1500504-05	917 SV-5	375	2.7L Can	01/08/15	113482	L1500056-01	Pass	-29.6	-5.1	-	-	-	-
L1500504-06	917 SV-6	0042	#30 SV	01/08/15	113482		-	-	-	Pass	17.9	35.0	65
L1500504-06	917 SV-6	130	2.7L Can	01/08/15	113482	L1500056-01	Pass	-29.5	-5.7	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1500056
Report Date: 01/16/15

Air Canister Certification Results

Lab ID: L1500056-01
Client ID: CAN 498 SHELF 7
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/06/15 16:33
Analyst: RY

Date Collected: 12/31/14 13:55
Date Received: 01/03/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1500056
Report Date: 01/16/15

Air Canister Certification Results

Lab ID: L1500056-01
Client ID: CAN 498 SHELF 7
Sample Location:

Date Collected: 12/31/14 13:55
Date Received: 01/03/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1500056
Report Date: 01/16/15

Air Canister Certification Results

Lab ID: L1500056-01
Client ID: CAN 498 SHELF 7
Sample Location:
Date Collected: 12/31/14 13:55
Date Received: 01/03/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1500056
Report Date: 01/16/15

Air Canister Certification Results

Lab ID: L1500056-01
Client ID: CAN 498 SHELF 7
Sample Location:

Date Collected: 12/31/14 13:55
Date Received: 01/03/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Silanol, Trimethyl-	3.2	NJ	ppbV		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1500056
Report Date: 01/16/15

Air Canister Certification Results

Lab ID: L1500056-01
Client ID: CAN 498 SHELF 7
Sample Location:
Date Collected: 12/31/14 13:55
Date Received: 01/03/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1500056
Report Date: 01/16/15

Air Canister Certification Results

Lab ID: L1500056-01
Client ID: CAN 498 SHELF 7
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/06/15 16:33
Analyst: RY

Date Collected: 12/31/14 13:55
Date Received: 01/03/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1500056
Report Date: 01/16/15

Air Canister Certification Results

Lab ID: L1500056-01
Client ID: CAN 498 SHELF 7
Sample Location:

Date Collected: 12/31/14 13:55
Date Received: 01/03/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1500056
Report Date: 01/16/15

Air Canister Certification Results

Lab ID: L1500056-01
Client ID: CAN 498 SHELF 7
Sample Location:
Date Collected: 12/31/14 13:55
Date Received: 01/03/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	92		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	89		60-140

Project Name: 911-917 ATLANTIC AVE
Project Number: 917 ATLANTIC AVE

Lab Number: L1500504
Report Date: 01/16/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**
Cooler
N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1500504-01A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1500504-02A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1500504-03A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1500504-04A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1500504-05A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1500504-06A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	911-917 ATLANTIC AVE	**Lab Number:**	L1500504
Project Number:	917 ATLANTIC AVE	**Report Date:**	01/16/15

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report

Project Name:	911-917 ATLANTIC AVE	**Lab Number:**	L1500504
Project Number:	917 ATLANTIC AVE	**Report Date:**	01/16/15

Data Qualifiers

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L1500504

Client Information

Client: Tenen
Address: 121 W 27th St Suite 10C
Phone: 646 606 2332
Fax:
Email: mcarroll@tenen-env.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 911-917 Atlantic Ave
Project Location: 11
Project #: 917 Atlantic
Project Manager: Matt Carroll
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:

Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS: TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
	911 SV-1	1/9/15	0908	1108	-30.20	-4.10	SV	KM	2.7L	1734	0224		✓						
	911 SV-2		0938	1140	-29.78	-5.81	SV	KM		371 ~~0272~~	0272 ~~371~~		✓						
	915 SV-3		1030	1230	-30.08	~~-7.39~~ -5.99	SV	KM		538	0210		✓						
	915 SV-4		1050	1255	-30.39	-6.71	SV	KM		494	0554		✓						
	917 SV-5		1210	1410	-30.04	-6.90	SV	KM		375	0073		✓						
	917 SV-6		1225	1430	-30.12	-7.60	SV	KM		130	0042		✓						

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
	1/9/15 1630		1/9/15 1630
	1/9/15 1930	Tom Tooker	1-9-15 1930
Tom Tooker	1-10-15 0210		1/10/15 0210

Form No: 101-02 (19-Jun-09)

APPENDIX D
PROPOSED PROJECT PLANS

909 ATLANTIC AVE.

100% CD - 29-JANUARY-2016

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

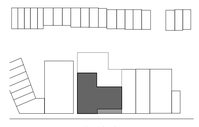
CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

COVER SHEET

DRAWING #: T-000 00

1 of 92

DOB STAMP ZONE

DOB ##### ZONE

1/29/2016 4:35:02 PM

SHEET LIST · 100% CD								
Sheet #	Sheet Name	100% SD	50% DD	100% DD	DOB #1	50% CD	HPD · ISSUE #1	100% CD
00-TITLE								
T-000	COVER SHEET	X	X	X	X	X	X	X
T-001	SHEET INDEX	X	X	X	X	X	X	X
01-GENERAL								
G-000	ABBREVIATIONS & SYMBOLS		X	X	X	X	X	X
G-001	GENERAL NOTES		X	X	X	X	X	X
G-002	NYCECC NOTES		X	X	X	X	X	X
G-003	ACCESSIBILITY NOTES		X	X	X	X	X	X
G-004	MULTIPLE DWELLING NOTES		X	X	X	X	X	X
02-ZONING								
Z-100	ZONING		X	X	X	X	X	X
Z-101	ZONING		X	X	X	X	X	X
Z-102	ZONING		X	X	X	X	X	X
Z-103	ZONING		X	X	X	X	X	X
Z-104	DISTRIBUTION CHARTS						X	X
02.1-BUILDING CODE ANALYSIS & LIFE SAFETY								
EG-001	EGRESS AND AREA PLANS		X	X	X	X	X	X
EG-002	EGRESS AND AREA PLANS		X	X	X	X	X	X
EN-100	ENERGY ANALYSIS			X	X	X		X
EN-101	NYC ENERGY CONSERVATION CODE			X	X	X		X
03-ARCHITECTURAL								
A-001	SITE SURVEY			X	X	X	X	X
A-002	SITE PLAN	X	X	X	X	X	X	X
A-003	SITE PHOTOS						X	X
A-010	SCHEDULES			X	X	X		X
A-020	PARTITION TYPES	X	X	X	X	X		X
A-021	TYP GWB DETAILS		X	X	X	X		X
A-022	TYP GWB DETAILS		X	X	X	X		X
A-023	DOOR DETAILS		X	X	X	X		X
A-040	DOOR TYPES		X	X	X	X		X
A-041	DOOR SCHEDULES		X	X	X	X		X
A-042	DOOR SCHEDULES		X	X	X	X		X
A-043	DOOR SCHEDULES		X	X	X	X		X
A-050	MISC DETAILS							X
A-100	CELLAR PLAN	X	X	X	X	X	X	X
A-101	GROUND FLOOR PLAN	X	X	X	X	X	X	X
A-102	2ND-3RD FLOOR PLAN	X	X	X	X	X	X	X
A-103	4TH-6TH FLOOR	X	X	X	X	X	X	X
A-104	7TH-9TH FLOOR PLAN	X	X	X	X	X	X	X
A-105	ROOF PLAN	X	X	X	X	X	X	X
A-110	FINISH FLOOR PLAN - CELLAR							X
A-111	FINISH FLOOR PLAN - GROUND FLOOR							X
A-112	FINISH FLOOR PLAN - 2ND-3RD FLOOR							X
A-113	FINISH FLOOR PLAN - 4ND-6TH FLOOR							X
A-114	FINISH FLOOR PLAN - 7TH-9TH FLOOR + ROOF							X
A-150	ENLARGED PLANS - BATHROOMS		X	X	X	X	X	X
A-151	ENLARGED PLANS - BATHROOMS		X	X	X	X	X	X
A-152	ENLARGED PLANS - KITCHENS		X	X	X	X	X	X
A-153	ENLARGED PLANS - KITCHENS			X	X	X	X	X
A-154	KITCHEN DETAILS					X	X	X
A-155	ENLARGED PLANS - BICYCLE STORAGE AREA				X	X		X
A-156	ENLARGED RESIDENTIAL FLOOR PLANS - UNIT TYPES				X	X	X	X
A-157	ENLARGED RESIDENTIAL FLOOR PLANS - UNIT TYPES				X	X	X	X
A-200	REFLECTED CEILING PLAN - CELLAR		X	X	X	X		X
A-201	REFLECTED CEILING PLAN - GROUND FLOOR		X	X	X	X		X
A-202	REFLECTED CEILING PLAN - 2ND-3RD FLOOR		X	X	X	X		X
A-203	REFLECTED CEILING PLAN - 4TH-6TH FLOOR PLAN		X	X	X	X		X
A-204	REFLECTED CEILING PLAN - 7TH-9TH FLOOR PLAN		X	X	X	X		X
A-300	SOUTH ELEVATION		X	X	X	X	X	X
A-301	EAST ELEVATION		X	X	X	X	X	X
A-302	NORTH ELEVATION		X	X	X	X	X	X
A-303	WEST ELEVATION		X	X	X	X	X	X
A-304	BRICK LAYOUT ELEVATIONS					X		X
A-330	BUILDING SECTION	X	X	X	X	X		X
A-331	BUILDING SECTION			X	X	X		X
A-360	ENLARGED ELEVATION - BUILDING ENTRY					X		X
A-410	BUILDING AXONOMETRIC				X	X	X	X
A-430	EXTERIOR WALL SECTIONS AND DETAILS			X	X	X		X
A-431	EXTERIOR WALL SECTIONS AND DETAILS			X	X	X		X
A-432	EXTERIOR WALL SECTIONS AND DETAILS			X	X	X		X
A-433	EXTERIOR WALL SECTIONS AND DETAILS							X
A-434	EXTERIOR WALL SECTIONS AND DETAILS							X
A-440	EXTERIOR WALL DETAILS - PLAN			X	X	X		X
A-441	EXTERIOR WALL DETAILS - PLAN					X		X
A-442	TYPICAL EXTERIOR DETAILS							X
A-443	TYPICAL ROOF DETAILS							X
A-444	MOCK UPS							X
A-445	ENTRANCE CANOPY DETAILS					X		X
A-450	FOUNDATION DETAILS			X	X	X		X
A-451	BULKHEAD					X		X
A-490	WINDOW TYPES AND SCHEDULE		X	X	X	X		X
A-491	LOUVER TYPE AND SCHEDULE							X
A-500	STAIR A/B - PLANS		X	X	X	X		X
A-510	STAIR DETAILS		X	X	X	X		X
A-511	RAILING AND WINDOW GUARD DETAILS							X
A-530	REFUSE CHUTE - PLANS & SECTIONS		X	X	X	X		X
A-550	ELEVATOR PLANS & SECTION		X	X	X	X		X
A-551	ELEVATOR PLANS & SECTION							X
A-700	SIGN DETAILS							X
A-701	SIGN DETAILS							X
A-702	SIGN LOCATION PLANS							X
A-703	SIGN LOCATION PLANS							X
A-800	INTERIOR ELEVATIONS - LOBBY			X	X	X		X
A-801	INTERIOR ELEVATIONS - FITNESS AND LOUNGE				X	X		X
A-802	TYPICAL COORIDOR				X	X		X
A-830	LOBBY DETAILS				X	X		X
A-831	LOBBY DETAILS				X	X		X
04-BUILDERS PAVEMENT PLAN								
BPP-100	BUILDERS PAVEMENT PLAN					X		
BPP-200	BUILDERS PAVEMENT PLAN					X		
05-SUPPORT OF EXCAVATION								
SOE-001	COVER SHEET					X		
SOE-100	GENERAL NOTES					X		
SOE-101	SITE PLAN					X		
SOE-102	SITE EXCAVATION PLAN							
SOE-103	CROSS-SECTION					X		
SOE-104	SECTION AND DETAILS					X		

SHEET LIST · 100% CD								
Sheet #	Sheet Name	100% SD	50% DD	100% DD	DOB #1	50% CD	HPD · ISSUE #1	100% CD
06-LANDSCAPE								
L-100	MATERIALS & LAYOUT PLAN			X		X		X
L-101	GRADING & PLANTING PLAN			X		X		X
L-102	IRRIGATION PLAN AND DETAILS			X		X		X
L-200	SITE DETAILS			X		X		X
L-201	SITE DETAILS			X		X		X
L-202	SITE DETAILS			X		X		X
07-STRUCTURAL								
S-100.00	FOUNDATION / CELLAR FRAMING PLAN	X	X	X		X		X
S-101.00	FIRST FLOOR FRAMING PLAN	X	X	X		X		X
S-200.00	SECOND FLOOR FRAMING PLAN	X	X	X		X		X
S-201.00	THIRD FLOOR FRAMING PLAN	X	X	X		X		X
S-202.00	FOURTH FLOOR FRAMING PLAN	X	X	X		X		X
S-203.00	FIFTH AND SIXTH FLOOR FRAMING PLAN	X	X	X		X		X
S-204.00	SEVENTH FLOOR FRAMING PLAN	X	X	X		X		X
S-205.00	EIGHTH AND NINTH FLOOR FRAMING PLAN	X	X	X		X		X
S-300.00	ROOF FRAMING PLAN	X	X	X		X		X
S-400.00	GENERAL STRUCTURAL NOTES	X	X	X		X		X
S-401.00	SCHEDULES	X	X	X		X		X
S-402.00	TYPICAL DETAILS	X	X	X		X		X
S-403.00	TYPICAL DETAILS	X	X	X		X		X
S-404.00	TYPICAL DETAILS	X	X	X		X		X
S-500.00	FOUNDATION DETAILS	X	X	X		X		X
S-501.00	FOUNDATION DETAILS	X	X	X		X		X
S-502.00	FOUNDATION DETAILS							X
S-600.00	FRAMING DETAILS	X	X	X		X		X
S-601.00	FRAMING DETAILS	X	X	X		X		X
S-602.00	FRAMING DETAILS	X	X	X		X		X
S-603.00	FRAMING DETAILS							X
08-MECHANICAL								
M-100.00	MECHANICAL SYMBOLS, NOTES & ABBREVIATIONS			X		X		X
M-300.00	MECHANICAL CONSTRUCTION PLAN - CELLAR		X	X		X		X
M-301.00	MECHANICAL CONSTRUCTION PLAN – GROUND FLOOR			X		X		X
M-302.00	MECHANICAL CONSTRUCTION PLAN - 2ND & 3RD FLOOR		X	X		X		X
M-303.00	MECHANICAL CONSTRUCTION PLAN – 4TH – 6TH FLOOR			X		X		X
M-304.00	MECHANICAL CONSTRUCTION PLAN – 7TH – 9TH FLOOR			X		X		X
M-305.00	MECHANICAL CONSTRICTION PLAN – ROOF			X		X		X
M-600.00	MECHANICAL SCHEDULES (1 OF 2)			X		X		X
M-601.00	MECHANICAL SCHEDULES (2 OF 2)			X		X		X
M-700.00	MECHANICAL DETAILS (1 OF 2)			X		X		X
M-701.00	MECHANICAL DETAILS (2 OF 2)			X		X		X
09-ELECTRICAL								
E-100.00	ELECTRICAL SYMBOLS, NOTES & ABBREVIATIONS		X	X		X		X
E-300.00	ELECTRICAL POWER PLAN - CELLAR		X	X		X		X
E-301.00	ELECTRICAL POWER PLAN – GROUND FLOOR			X		X		X
E-302.00	ELECTRICAL POWER PLAN – 2ND-3RD FLOOR		X	X		X		X
E-303.00	ELECTRICAL POWER PLAN – 4TH-6TH FLOOR			X		X		X
E-304.00	ELECTRICAL POWER PLAN – 7TH-9TH FLOOR			X		X		X
E-305.00	ELECTRICAL POWER PLAN – ROOF			X		X		X
E-400.00	ELECTRICAL LIGHTING PLAN – CELLAR			X		X		X
E-401.00	ELECTRICAL LIGHTING PLAN – GROUND FLOOR			X		X		X
E-402.00	ELECTRICAL LIGHTING PLAN – 2ND & 3RD FLOOR			X		X		X
E-403.00	ELECTRICAL LIGHTING PLAN – 4TH-6TH FLOOR			X		X		X
E-404.00	ELECTRICAL LIGHTING PLAN – 7TH-9TH FLOOR & ROOF			X		X		X
E-500.00	ELECTRICAL RISER DIAGRAM		X	X		X		X
E-600.00	ELECTRICAL PANEL SCHEDULES			X		X		X
E-700.00	ELECTRICAL DETAILS (1 OF 2)			X		X		X
E-701.00	ELECTRICAL DETAILS (2 OF 2)			X		X		X
E-800.00	ELECTRICAL SPECIFICATIONS			X		X		
E-900.00	TYPICAL APARTMENT ELECTRICAL LAYOUTS (1 OF 2)			X		X		X
E-901.00	TYPICAL APARTMENT ELECTRICAL LAYOUTS (2 OF 2)			X		X		X
10-FIRE ALARM								
FA-100.00	FIRE ALARM SYMBOLS, NOTES & RISER DIAGRAM		X	X		X		X
FA-300.00	FIRE ALARM CONSTRUCTION PLAN - CELLAR		X	X		X		X
FA-301.00	FIRE ALARM CONSTRUCTION PLAN - GROUND FLOOR		X	X		X		X
FA-302.00	FIRE ALARM CONSTRUCTION PLAN - 2ND-3RD FLOOR		X	X		X		X
FA-303.00	FIRE ALARM CONSTRUCTION PLAN - 4TH-6TH FLOOR		X	X		X		X
FA-304.00	FIRE ALARM CONSTRUCTION PLAN - 7TH-9TH FLOOR		X	X		X		X
FA-305.00	FIRE ALARM CONSTRUCTION PLAN - ROOF		X	X		X		X
FA-800.00	FIRE ALARM SPECIFICATIONS		X	X		X		
11-PLUMBING								
P-100.00	PLUMBING SYMBOLS, NOTES & ABBREVIATIONS			X		X		X
P-300.00	PLUMBING CONSTRUCTION PLAN – UNDER SLAB							X
P-301.00	PLUMBING CONSTRUCTION PLAN – CELLAR		X	X		X		X
P-302.00	PLUMBING CONSTRUCTION PLAN – GROUND FLOOR			X		X		X
P-303.00	PLUMBING CONSTRUCTION PLAN – 2ND & 3RD FLOOR		X	X		X		X
P-304.00	PLUMBING CONSTRUCTION PLAN – 4TH-6TH FLOOR			X		X		X
P-305.00	PLUMBING CONSTRUCTION PLAN – 7TH-9TH FLOOR			X		X		X
P-306.00	PLUMBING CONSTRUCTION PLAN – ROOF			X		X		X
P-500.00	PLUMBING RISER DIAGRAM (1 OF 7)		X	X		X		X
P-501.00	PLUMBING RISER DIAGRAM (2 OF 7)			X		X		X
P-502.00	PLUMBING RISER DIAGRAM (3 OF 7)			X		X		X
P-503.00	PLUMBING RISER DIAGRAM (4 OF 7)			X		X		X
P-504.00	PLUMBING RISER DIAGRAM (5 OF 7)			X		X		X
P-505.00	PLUMBING RISER DIAGRAM (6 OF 7)			X		X		X
P-506.00	PLUMBING RISER DIAGRAM (7 OF 7)			X		X		X
P-600.00	PLUMBING SCHEDULES			X		X		X
P-700.00	PLUMBING DETAILS			X		X		X
12-SPRINKLER								
SP-100.00	SPRINKLER SYMBOLS, NOTES & ABBREVIATIONS			X		X		X
SP-300.00	SPRINKLER CONSTRUCTION PLAN - CELLAR		X	X		X		X
SP-301.00	SPRINKLER CONSTRUCTION PLAN – GROUND FLOOR			X		X		X
SP-302.00	SPRINKLER CONSTRUCTION PLAN - 2ND-3RD FLOOR		X	X		X		X
SP-303.00	SPRINKLER CONSTRUCTION PLAN – 4TH-6TH FLOOR			X		X		X
SP-304.00	SPRINKLER CONSTRUCTION PLAN – 7TH-9TH FLOOR			X		X		X
SP-305.00	SPRINKLER CONSTRUCTION PLAN – ROOF			X		X		X
SP-500.00	SPRINKLER RISER DIAGRAM		X	X		X		X
SP-600.00	SPRINKLER SCHEDULES & DETAILS			X		X		X
SP-800.00	SPRINKLER SPECIFICATIONS			X		X		
13-STORM DETENTION								
SD-000	STORM DETENTION					X		

DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

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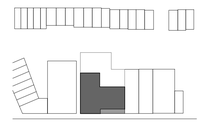
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

SHEET INDEX

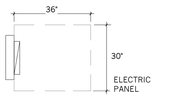
DRAWING #: T-001.00

2 of 92

DOB ##### ZONE

1/29/2016 4:35:08 PM

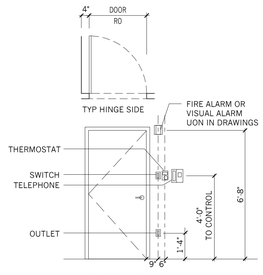
PLAN LEGEND



WASHER/DRYER HOOK UP

VERIZON TELEPHONE/ INTERNET/ CABLE TV NID BOX

GAS RISER - SEE 29/A021



MINIMUM LIVING ROOM SPACE REQUIRED AS PER HMC 27 -2074 REFER TO ENLARGED PLANS

** INDICATES 1 1/2 HR. FIRE RATED ULC LABELED DOOR AND PRESSED STEEL FRAME WITH DOOR CLOSER WITH HEAVY DUTY LATCH SET AND DEAD PER 1008.4.2

SD SMOKE DETECTOR - PHOTOELECTRIC TYPE - ALSO REFER TO FA DWGS

SC SMOKE/CARBON MONOXIDE DETECTOR ALSO REFER TO ELEC DWGS

FDNY ACCESS PATH

SYMBOLS LEGEND

EARTH

RIGID INSULATION

BRICK WALL

CMU WALL

CAST IN PLACE CONCRETE

1 HR RATED ENCLOSURE

2 HR RATED ENCLOSURE

STRUCTURAL GRID CENTER LINE

PROPERTY LINE

NORTH ARROW

1 VIEW NAME
1/8" = 1'-0"
DRAWING IDENTIFIER

99 STRUCTURAL GRID IDENTIFIER

COLUMN COORDINATE MARKER

1i COLUMN NUMBER

1 / AA-999 SECTION MARKER

1 / AA-999 BUILDING ELEVATION

1 / 1 AA.000 1 / 1 INTERIOR ELEVATION TAG

1 / AA-999 DETAIL CALLOUT

Room
150 SF
ROOM TAG

999A DOOR TAG

77.13 ELEVATION DATUM/TEXT

ELEVATION MARKER

1i FINISH TAG

LOAD CAPACITY 999 OCCUPANTS
DOOR OCCUPANCY LOAD TAG

EGRESS DIST
Egress Distance
EGRESS DISTANCE TAG

9999 PARTITION TYPE

1t WINDOW TAG

RD ROOF DRAIN

FD FLOOR DRAIN

AD AREA DRAIN

DC SECURITY DOOR CONTACT

R SECURITY READER

IC SECURITY INTERCOM

KEYPAD SECURITY KEYPAD

ELECTRICAL PANEL

TEL/DATA PANEL

ABBREVIATIONS

ABV	ABOVE
AIR	BAR AIR BARRIER
A/C	AIR CONDITIONING
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADDL	ADDITIONAL
ADJ	ADJACENT
ADJT	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
ASPH	ASPHALT
ATTEN	ATTENUATION
AUTO	AUTOMATIC
AWP	ACOUSTIC WALL PANEL
BB	BOND BREAKER
BD	BOARD
BR	BEDROOM
BHD	BEHIND
BIT	BITUMINOUS
BKR	BACKER
BKSPL	BACKSPLASH
BLCK	BLACK
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLNKT	BLANKET
BLW	BELOW
BM	BEAM
B.O.	BY OWNER/ BY OTHERS/ BOTTOM OF
BOT	BOTTOM
BPL	BASEPLATE, BEARING PLATE
BRKT	BRACKET
BSMT	BASEMENT
BTH	BATH
BTM	BOTTOM
BTW	BETWEEN
BUR	BUILT-UP ROOFING
BYD	BEYOND
B/I	BUILT-IN
B/O	BUILD-OUT
B/U	BUILT-UP
BVL	BEVELED
CAB	CABINET
CATV	CABLE TELEVISION
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TELEVISION
CER	CERAMIC
CEL	CELLAR
CEM	CEMENT/CEMENTITIONS
CG	CORNER GUARD
CHLK	CHAIN LINK
CJ	CONTROL JOINT
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CLKG	CAULKING
CLST	CLOSET
CLSR	CLOSER
CF	COMMUNITY FACILITY
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CS	CRAWLSPACE
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTR	CENTER
C/I	CAST IRON
C/P	CONTROL POINT
C/T	COUNTERTOP
CPT	CARPET
CTSK	COUNTERSUNK
CV	COVE
CW	COLD WATER
CWL	CURTAIN WALL
CWR	COLD WATER RETURN
CWS	COLD WATER SUPPLY
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLISH
DEP	DEPRESSED
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIF	DIFFUSER
DIM	DIMENSION
DISP	DISPENSER
DIST	DISTANCE
DLO	DAYLIGHT OPENING
DN	DOWN
DR	DOOR
DRY	DRYER
DS	DOWNSPOUT
DSW	DISCONNECT SWITCH
DTL	DETAIL
DWG	DRAWING
DWR	DRAWER
DYLT	DAYLIGHT
E	EAST
EA	EACH
EBH	ELECTRICAL BASEBOARD HEATER
EIFS	EXTERIOR INSULATION FINISHING SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
EL	ELEVATION
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
EP	ELECTRICAL PANEL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQP	EQUIPMENT
ESC	ESCALATOR
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION / EXPOSED
EXT	EXTERIOR / EXTEND
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAI	FRESH AIR INTAKE
FBGL	FIBERGLASS
FBO	FURNISHED BY OTHERS
FBOIBC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR
FCNG	FENCING
FD	FLOOR DRAIN
FNDN	FOUNDATION
FE	FREIGHT ELEVATOR
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FH	FIRE HYDRANT / FLATHEAD
FHSE	FIRE HOSE
FHC	FIRE HOSE CABINET
FHVC	FIRE HOSE VALVE CABINET
F/I	FURNISH and INSTALL
FIN	FINISH(ED)
FL	FLUSH
FLSHG	FLASHING
FLR	FLOOR
FLUOR	FLUORESCENT
FND	FOUNDATION
FOB	FACE OF BUILDING
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOSTL	FACE OF STEEL
F/O	FURNISH ONLY
FP	FIRE PROOFING
FPL	FIREPLACE
FPSC	FIRE PROTECTED SELF-CLOSING
FR	FIRE-RESISTANT
FRM	FRAME
FRP	FIBER REINFORCED PLASTIC
FRCB	FIBER REINFORCED CEMENT BOARD
FT	FOOT/FEET
FTG	FOOTING
FURG	FURRING
FXT	FIXTURE
F/R	FIRE RETARDANT
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GR	BM GRADE BEAM
GRTG	GRATING
GL	GLASS/GLAZING
GR	GRADE
GRND	GROUND
GRT	GROUT
GTR	GUTTER
GWB	GYPSUM WALL BOARD
H	HIGH; HEIGHT
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAD; HAND DRYER
HDR	HEADER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HSE	HOUSE
HT	HEIGHT
HTG	HEATING
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HYD	HYDRANT
ID	INSIDE DIAMETER
IE	INTERIOR ELEVATION
ILT	INLET
IN	INCH(ES)INCLINCLUDING
INFO	INFORMATION
INSUL	INSULATION
INST	INSTALL
INT	NTERIOR
INV	NVERT
I/O	INSTALL ONLY
JC	JANITOR'S CLOSET
JMB	JAMB
JST	JOIST
JT	JOINT
KIT	KITCHEN
KD	KILN DRIED
KKEPC	KOVER KRACK ELASTOMERIC PATCHING COMPOUND
KO	KNOCK OUT
K/D	KNOCK DOWN
KXE	KITCHEN EXHAUST
L	LENGTH
LAB	LABORATORY
LBL	LABEL
LBS	POUNDS
LAM	LAMINATE
LAV	LAVATORY
LDR	LEADER
LF	LINEAR FEET/FOOT
LH	LEFT HAND
LHRB	LEFT HAND REVERSE BEVEL
LIN	LINEAR
LKR	LOCKER
LTL	LINTEL
LP	LOW POINT
LT	LIGHT
LTG	LIGHTING
LTWT	LIGHT WEIGHT
LVR	LOUVER
MNFR	MANUFACTURER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBL	MARBLE
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOD	MODIFIED
MOV	MOVABLE
MP	METAL PANEL
MTD	MOUNTED
MTL	METAL
MULL	MULLION
M/R	MOISTURE RETARDANT
N	NORTH
NAT	NATURAL
NIC	NOT IN CONTRACT
NLR	NAILER
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
NUM	NUMBER
N/A	NOT APPLICABLE
O/	OVER
OA	OVERALL
OBSC	OBSCURE
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OFF	OFFICE
OH	OPPOSITE HAND
OPG	OPENING
OPP	OPPOSITE
OVHD	OVERHEAD
PC	POLISHED CHROME
PCF	POUNDS PER CUBIC FOOT
PE	PASSENGER ELEVATOR
PED	PEDESTAL
PERF	PERFORATED
PD	PLAN DETAIL
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
PWDR	POWDER
PLUMB	PLUMBING
POL	POLISHED
PR	PAIR
PROG	PROGRAM
PTD	PAINTED
PTD-FF	PAINTED FLAT FINISH
PTN	PARTITION
PG	PAINT GRADE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PVC	POLYVINYL CHLORIDE
PVT	PIVOT
PVMT	PAVEMENT
QT	QUARRY TILE
QTY	QUANTITY
R	RISER(S)
RA	RETURN AIR
RAG	RETURN AIR GRILLE
RAD	RADIATOR; RADIUS
RBL	RUBBLE
RCP	REFLECTED CEILING PLAN; REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REC	RECESSED
RECP	RECEPTACLE
REF	REFERENCE; REFRIGERATOR
REG	REGISTER
REINF	REINFORCEMENT
REM	REMOVE
REQ	REQUIRED
RES	RESILIENT
REV	REVISE; REVISION
RH	RIGHT HAND
RHRB	RIGHT HAND REVERSE BEVEL
RL	RAIL
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
S	SOUTH
SAB	SOUND ATTENUATION BLANKET
SAN	SANITARY
SAT	SATIN
SC	SOLID CORE
SCL	SELF-CLOSING
SCHED	SCHEDULE
SD	STORM DRAIN / SECTION DETAIL
SE	SERVICE ELEVATOR
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SL	SLOPE
SLNT	SEALANT
SLPR	SLEEPER
SO	SHUTOFF
SP	STARTING POINT
SPEC	SPECIFICATION
SQ	SQUARE
S/R	SLIP RESISTANT
SLPSK	SLOP SINK
SSTL	STAINLESS STEEL
ST	STONE
STA	STATION
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STOR	STORAGE
STL	STEEL
STRUCT	STRUCTURAL
SURF	SURFACE
SUSP	SUSPENDED
SYM	SYMMETRICAL
SYS	SYSTEM
S/B	SANDBLASTED
SW	SWITCH
T T	READ(S)
T/C	TERRA COTTA
T/G	TONGUE AND GROOVE
TBD	TO BE DETERMINED
TCSS	TERNE COATED STAINLESS STEEL
TEL	TELEPHONE
TEMP	TEMPERED
TERR	TERRAZZO
TFSB	THERMA FIBER SAFETY BLANKET
THK	THICK
TKT	TICKET
TL	TILE
TLT	TOILET
TOC	TOP OF CURB
TOP	TOP OF PAVEMENT
TOS	TOP OF SLAB
TOSTL	TOP OF STEEL
TOW	TOP OF WALL
TPO	THERMOPLASTIC POLYOLEFIN
TPTN	TOILET PARTITIONTS
TAT	THERMOSTAT
TUN	TUNNEL
TV	TELEVISION
TXE	TOILET EXHAUST
TYP	TYPICAL
U	UP
UON	UNLESS OTHERWISE NOTED
U/S	UNDERSIDE
U/C	UNDERCOUNTER
VAP	BAR VAPOR BARRIER
VAV	VARIABLE AIR VOLUME
VB	VINYL BASE
VDR	VAPOR DIFFUSION RETARDER
VEN	VENEER
VERT	VERTICAL
VEST	VESTIBULE
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
VLV	VALVE
VPL	VENEER PLASTER
W	WEST; WIDE; WIDTH
WW	WASH WASHER
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
W/D	WASHER/DRYER
WHT	WHITE
WKPT	WORKPOINT
WM	WIRE MESH
WNDW	WINDOW
WWF	WELDED WIRE FABRIC
W/	WITH
W/C	WATER COOLER
W/O	WITH OUT
WP	WATER PROOF(ING)
WR	WATER RESISTANT
WS	WEATHER STRIPPING
WT	WEIGHT
WSCT	WAINSCOT
WV	WOOD VENEER
WWF	WELDED WIRE FABRIC
&	AND
@	AT
+/-	PLUS OR MINUS
%	PERCENT
+	AND
#	NUMBER OR POUND

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

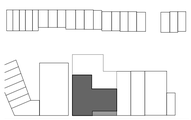
CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

ABBREVIATIONS & SYMBOLS

DRAWING #: G-000 00

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DOB STAMP ZONE

DOB ##### ZONE

BUILDING CODE SUMMARY

CODE REVIEW: 2014 NYC BUILDING CODE
CONSTRUCTION CLASS: TYPE IB
FIRE RESISTANCE RATING: THE FIRE RESISTANCE RATING OF BUILDING ELEMENTS SHALL BE DETERMINED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E 119 OR IN ACCORDANCE WITH SECTION 703.2 2014 NYC BUILDING CODE.

CONSTRUCTION CLASS IB (PER TABLE 601)	REQUIRED	PROVIDED	NOTES
PRIMARY STRUCTURAL FRAME	2	2	COMPLIES
BEARING WALLS EXTERIOR INTERIOR	 2 2	 2 2	COMPLIES
NONBEARING WALLS AND PARTITIONS EXTERIOR	SEE TABLE 602	COMPLIES	COMPLIES
NONBEARING WALLS AND PARTITIONS INTERIOR	0	0	COMPLIES
FLOOR CONSTRUCTION AND SECONDARY MEMBERS	2	2	COMPLIES
ROOF CONSTRUCTION AND SECONDARY MEMBERS	1	2	COMPLIES

ALSO COMPLIES 705.1.1, 705.5,705.6

NOTE 2014 NYC CITY BUILDING CODE SECTION 705.5: THE FIRE RESISTANCE RATING OF EXTERIOR WALLS WITH A FIRE SEPARATION DISTANCE OF GREATER THAN 10 FEET SHALL BE RATED FOR EXPOSURE TO FIRE FROM THE INSIDE. THE FIRE-RESISTANCE RATING OF EXTERIOR WALLS WITH A FIRE SEPARATION DISTANCE OF 10 FEET OR LESS SHALL BE RATED FOR EXPOSURE TO FIRE FROM BOTH SIDES.

ALL WORK DONE UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS AND ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

ELECTRICAL: NATIONAL ELECTRIC CODE.
MECHANICAL: CODES, RULES AND REGULATIONS OF THE CITY OF NEW YORK 2014.
PLUMBING: CODES, RULES AND REGULATIONS OF THE CITY OF NEW YORK 2014.
ACCESSIBILITY: CHAPTER 11, 2014 NYC BUILDING CODE AND ICC A117.1.

TABLE 503 - ALLOWABLE HEIGHTS AND BUILDING AREAS BUILDING CLASSIFICATION TYPE IB CONSTRUCTION AS PER BC 602.1 AND IN COMPLIANCE WITH BC 602.2

B HEIGHT: UL; AREA: UL
R-2 HEIGHT: UL; AREA: UL

TYPE IB CONSTRUCTION AS PER BC 602.1 AND IN COMPLIANCE WITH BC 602.2 PER BC 508.3.3 NON SEPARATED OCCUPANCIES. SEPARATION. NO SEPARATION IS REQUIRED BETWEEN OCCUPANCIES.

TABLE 602
FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE

FIRE SEPARATION DISTANCE	TYPE OF CONSTRUCTION	OCCUPANCY	OCCUPANCY
	IB	F-1,M,S-1	A,B,E,F-2,I,R,S-2,U
< 5		2	1
≥ 5 TO <10		1	1
≥ 10 TO <30		1	1
≥ 30		0	0

TABLE 803.1 -INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY

GROUP	SPRINKLERED		
	EXIT ENCLOSURE AND EXIT PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES
B	B	B	B
R-2	B	B	C

TABLE 1004.1.1 - MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

USE OF SPACE	FLOOR AREA IN SQ.FT. PER OCCUPANT
RESIDENTIAL	200 GROSS WITHIN DWELLING UNIT
BUSINESS AREA	100 GROSS
ACCESSORY MECH AREAS	300 GROSS
ASSEMBLY	15 NET
MERCANTILE	30 GROSS@CELLAR,@GRADE; 60@ > GRADE
EXERCISE ROOM	50 GROSS

PER BC 1008.4.4 INTERCOMMUNICATION SYSTEM, A BUILDING INTERCOMMUNICATION SYSTEM IS REQUIRED FOR THE BUILDINGS CONTAINING MORE THAN EIGHT UNITS

TABLE 1018.1.1 - INTERIOR CORRIDOR RATES

OCCUPANCY	OCCUPANT LOAD SERVED BY INTERIOR CORRIDOR	REQUIRED FIRE-RESISTANCE RATING (HOURS) WITH SPRINKLER SYSTEM
F,M	GREATER THAN 30	0
R	GREATER THAN 10	0

TABLE 1018.1.2 - PUBLIC CORRIDOR RATES

OCCUPANCY	REQUIRED FIRE-RESISTANCE RATING (HOURS)	PROVIDED
F, M	1	1
R-2 (NONCOMBUSTIBLE)	1	2

PROJECT INFORMATION

PROJECT DESCRIPTION
A. NEW CONSTRUCTION 9 STRY - RESIDENTIAL
B. PROPOSED BUILDING LOT IS NOT LOCATED IN A FLOOD HAZARD ZONE
C. PROPOSED BUILDING IS AN INCLUSIONARY HOUSING PROJECT WITH 78 UNITS OF WHICH 77 WILL BE AFFORDABLE UNITS IN COMPLIANCE WITH ZR 23-90.

SECTION 1. ZONING INFORMATION
A. BLOCK: 2018
B. LOT: 62, 63, 64
C. ZONING DISTRICT: R6B, R7A/C2-4, R7A/C2-4, INCLUSIONARY HOUSING AREA
D. COMMUNITY BOARD: CB-2 BROOKLYN
E. LANDMARK: NO
F. LOT AREA: 1,330/1,330/10,054 SF
G. ZONING MAP: 16C
H. SPECIAL DISTRICT: DB

SECTION 2. APPLICATIONS FILED SEPARATELY
A. ELEVATOR
B. FIRE ALARM
C. SIDEWALK SHED
D. FIRE PROTECTION PLAN
E. SPRINKLERS/STANDPIPE
F. SCAFFOLD
G. UNDERPINNING
H. BUILDER'S PAVEMENT PLAN
I. UNDERGROUND PLUMBING
J. DEMOLITION
K. SIGNAGE
L. EMERGENCY POWER SYSTEMS (GENERATORS)
M. S.O.E. (SHEETING, SHORING, AND BRACING)
N. SITE SAFETY PLAN

SECTION 3. SPECIAL INSPECTION ITEMS

OWNER WILL ENGAGE AND PAY FOR A SPECIAL INSPECTOR AND AN INDEPENDENT TESTING AGENCY TO PERFORM THE FOLLOWING SPECIAL INSPECTION AND TESTING AS SPECIFIED ON THE APPLICABLE SECTIONS OF THE NEW YORK CITY BUILDING CODE, CHAPTER 17, SECTION 1704. TECHNICAL REPORT STATEMENT OF RESPONSIBILITY TR-1 FORM SHALL BE FILED WITH THE BUILDING DEPARTMENT FOR APPROVAL OF SPECIAL INSPECTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE PRIOR NOTICE FOR COMPLETION OF INSPECTIONS.

1. AS INDICATED IN THE DRAWINGS
2. SPECIAL INSPECTIONS PER BC-1704 LISTED BELOW
3. ENERGY CODE PROGRESS INSPECTION PER 1RCNY §5000-01 LISTED BELOW

SPECIAL INSPECTIONS

STRUCTURAL STEEL - WELDING -	BC 1704.3.1
STRUCTURAL STEEL - DETAILS -	BC 1704.3.2
STRUCTURAL STEEL - HIGH-STRENGTH BOLTING -	BC 1704.3.3
STRUCTURAL COLD-FORMED STEEL -	BC 1704.3.4
CONCRETE - CAST-IN- PLACE -	BC 1704.4
CONCRETE - PRECAST	BC 1704.4
CONCRETE - PRESTRESSED	BC 1704.4
MASONRY -	BC 1704.5
SUBGRADE INSPECTION	BC 1704.7.1
SOILS - DURING FILL PLACEMENT -	BC 1704.7.2
SOILS - EVALUATION OF IN-PLACE DENSITY -	BC 1704.7.3
SOILS - INVESTIGATIONS (BORINGS/TEST PITS) -	BC 1704.7.4
DEEP FOUNDATION ELEMENTS	BC 1704.8
MECHANICAL SYSTEMS -	BC 1704.16
EXCAVATION - SHEETING, SHORING AND BRACING -	BC 1704.20.2
UNDERPINNING -	BC 1704.20.3, BC 1814
SPRINKLER SYSTEM	BC 1704.23
FLOOD ZONE COMPLIANCE -	BC 1704.29, BCG105
POST-INSTALLED ANCHORS -	BC 1704.32
SEISMIC ISOLATION SYSTEMS -	BC 1707.8
CONCRETE DESIGN MIX -	BC 1905.3
CONCRETE SAMPLING AND TESTING	BC 1905.6, BC 1913.10
HEATING SYSTEMS -	BC 1704.25
FIRE-RESISTANT PENETRATIONS AND JOINTS	BC 1704.27
WALL PANELS, CURTAIN WALLS AND VENEERS -	BC 1709.10

PROGRESS INSPECTION ITEMS

FOOTING AND FOUNDATION -	BC 110.3.1
ENERGY CODE COMPLIANCE INSPECTIONS -	BC 110.3.5
FIRE-RESISTANCE RATED CONSTRUCTION -	BC 110.3.4

ENERGY CODE PROGRESS INSPECTION PER 1RCNY §5000-01

PROTECTION OF FOUNDATION INSULATION -	(IIA1)
INSULATION PLACEMENT AND R VALUES -	(IIA2)
FENESTRATION U-FACTOR AND PRODUCT RATINGS	(IIA3)
FENESTRATION AIR LEAKAGE	(IIA4)
FENESTRATION AREAS -	(IIA5)
AIR SEALING AND INSULATION - TESTING	(IIA7)
VESTIBULE -	(IIA9)
SHUTOFF DAMPERS	(IIB2)
HVAC AND SERVICE WATER HEATING EQUIPMENT -	(IIB3)
HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS -	(IIB4)
HVAC INSULATION AND SEALING	(IIB5)
DUCT LEAKAGE TESTING -	(IB6)
ELECTRICAL ENERGY CONSUMPTION	(IIC1)
LIGHTING IN DWELLING UNITS -	(IIC2)
INTERIOR LIGHTING POWER -	(IIC3)
EXTERIOR LIGHTING POWER -	(IIC4)
LIGHTING CONTROLS -	(IIC5)
EXIT SIGNS -	(IIC6)
ELECTRICAL MOTORS	(IIC7)
MAINTENANCE INFORMATION -	(IID1)

GENERAL NOTES

1. All work and materials furnished shall comply with the 2014 New York City building, fire, plumbing, mechanical and fuel gas codes, the State of New York regulations, the regulations of the national board of fire underwriters, national fire protective association requirements and all federal, state, and municipal authorities having jurisdiction over the work.
2. Before ordering any materials or doing any work, each trade shall verify all measurements with at the building and shall be responsible for the correctness of the same. No extra charge or compensation will be allowed on account of difference between actual dimensions and the measurements indicated on the drawings; any discrepancies between the drawings and field conditions which may be found shall be submitted to the architect for consideration and clarification before proceeding with the work. The contractor shall be responsible for any deviation from the contract documents.
3. All of the architect's drawings and construction notes are complimentary and what is called for be either will be binding as if called for by all; any work shown or referred to on any one drawing shall be provided as though shown on all drawings.
4. The work to be performed consists of furnishing all labor, equipment, tools, transportation, supplies, fees, materials, and services in accordance with these notes and drawings; and includes performing all operations necessary to construct and install complete, in satisfactory condition, the various materials and equipment at the locations shown.
5. Full size or large scale details or drawings shall govern small scale drawings which they are intended to amplify. Any conflicts must be brought to the attention of the architect prior to fabrication.
6. The standard specifications of the manufacturer for products called for in the drawings and notes are hereby made a part of these notes with the same force and effect as though herein written out in full..
7. All materials required for the performance of this work shall be new and of the best quality of the kinds specified. The use of old or second hand materials is strictly forbidden, except for locations on the drawings that refer to removal and relocation of materials or equipment. Materials shall be used in accordance with the manufacturer's specifications. The contractor shall submit all product warranties. The contractor will warranty all work as per New York state regulations.
8. The premises and job site shall be maintained in a reasonably neat and orderly condition and kept free from accumulations of waste materials and rubbish during the entire construction period. The contractor shall remove all crates, cartons and other trash from the work areas each day, and shall be responsible for its proper disposal. The premises shall be protected throughout construction and shall be turned over in spotless and orderly condition. All fixtures and equipment will be left in undamaged, bright, clean and polished condition.
9. Contractor to field verify all dimensions and elevations for clearances and will notify the Architect of any discrepancies between the drawings and actual conditions.
10. All work shall be subject to final inspection by the architect.
11. All plumbing and electrical work shall be performed by persons licensed in their trades.
12. The contractor shall take all necessary precautions to insure the safety of the building, its occupants, and the general public during construction.
13. The contractor will abide by all the rules and regulations set forth by the building's legal management agent; noting particularly any restrictions on noise, use of public entries, use of power tools, timely and proper debris removal, materials storage, and established working hours.
14. Contractor to maintain adequate access and egress for building during construction as included in, but not limited to the nyc building code.
15. Contractor to provide and coordinate all demolition as required for all trades whether indicated expressly on demolition drawings or in other divisions.
16. Abatement: all hazardous materials to be removed as per nyc code.
17. Construction access and staging to be approved by owner, D.O.T., and N.Y.C. D.O.B. General contractor responsible to maintain adequate pedestrian access and protection.
18. Protection: all items to remain to be fully protected by general contractor.
19. General contractor to maintain and protect all spaces and building services and access for building employees and tenants.
20. General contractor responsible to propose for approval and implement all environmental controls including but not limited to dust, smoke, noise, run-off, etc.
21. Temporary structural shoring is the contractors responsibility and not within the scope of this drawing set.
22. Mechanical equipment and building systems shall be constructed, installed and maintained in accordance with the 2014 New York City mechanical code and the 2014 New York City fuel gas code. BC 2801.1
23. Building, structures and parts thereof are designed and constructed in accordance with strength design, load and resistance factor design, allowable stress design, empirical design or conventional construction methods, as per 2014 New York City building code. Refer to structural application.
25. Per BC 2901.1 Plumbing system and equipment shall be constructed, installed, and maintained in accordance with the 2014 New York City building code.refer to plumbing application.
24. ALL ELEVATIONS SHOWN REFER TO THE **NAVD 1988** DATUM WHICH IS **1.467'** ABOVE BROOKLYN DATUM.

FIRE SAFETY NOTES

1. All building materials stored at the construction area, and/or in any area of the building are to be secured in a locked area. Access to such areas to be controlled by the owner and/or the general contractor.
2. All materials are to be stored in an orderly manner.
3. All flammable materials to be kept tightly sealed in their respective containers. Such materials are to be kept away from all heat sources.
4. All flammable materials to be used and stored in an adequately ventilated space
5. All electrical power to be shut off where there is exposed conduit.
6. All electrical power in the construction area to be shut off after working hours.
7. The contractor will at all times make sure that there is no leakage of natural gas in the building, or any flammable gas used in construction.

BUILDING DEPARTMENT NOTES

1. All work is new construction.
2. Demolition scope filed under separate application.
3. All construction will conform to all applicable codes, including the NYC Department of Buildings.
4. Facility to be fully protected with automatic sprinkler system.

SMOKE & CARBON DIOXIDE DETECTORS

1. Smoke detectors shall be installed as required by section 907.1 of nyc building code and in accordance with nfpa 72 as modified in appendix Q and the nyc electrical code.
2. Carbon monoxide detectors shall be installed as required by 908.7 of nyc building code and in accordance with sections 908.7.1 through 908.7.3.
3. Detectors shall be either ionization chamber or photoelectric type and to comply with rs 17-11
4. Units to be approved by board of standards and appeals, accepted pursuant to rules and regulations promulgated by the commissioner or listed by an acceptable testing laboratory, such as:
   (a) underwriter's laboratory, northbrook,illinois,mea lab ;
   (b) canadian standard association, ontario, canada,
   (c) underwriter's lab. Of canada ontario, mea lab.
5. Units shall be installed in areas designated in plans; they shall be located on or near the ceiling and within 15'-0" of any rooms used for sleeping purposes; for dwelling units with multiple levels, when any level has only one means of egress, units shall be provided at all levels.
6. Smoke detectors shall be installed as follows:
   (a) ceiling mount - closest edge of unit shall be minimum of 4" from any wall.
   (b) wall mount - closest edge of unit shall be a minimum of 6" and a maximum of 12" from the ceiling.
7. Detectors to comply with nyc building code sections 907.2.10.1.1 and 907.2.10.2.
8. Detectors shall be interconnected per nyc building code section 907.2.10.3

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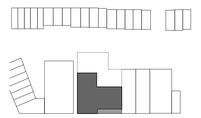
Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED
OWNER ATHENA HOUSING ASSOCIATES LLC.
STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.
MEP ENGINEER EP ENGINEERING
CODE CONSULTING DESIGN 2147
ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES
LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

GENERAL NOTES

REGISTERED ARCHITECT JONATHAN JOVA MARVEL No. 021481 STATE OF NEW YORK

DRAWING #: G-001 00

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2014 New York City Energy Conservation Code (NYCECC)

2011 NYCECC Continuous Air Barrier Requirement -

1. Except in unheated structures and as permitted by this section (Chapter 5 Commercial Energy Efficiency), a continuous air barrier shall be installed; sealing all seams, openings, and penetrations of the building and shall be sealed with caulking materials or closed with gasketing systems compatible with the construction materials and location.

2. Joints and seams shall be sealed in the same manner or taped or covered with a moisture vapor-permeable wrapping material. Sealing materials spanning joints between construction materials shall allow for expansion and contraction of the construction materials.

3. Such air barrier shall have all the following characteristics:
A. Continuous throughout the envelope with all joints and seams sealed and with sealed connections between all transitions in planes and changes in materials and at all penetrations.
B. Joined and sealed in a flexible manner to the air barrier component of adjacent assemblies, allowing for the relative movement of these assemblies and components.
C. Installed in accordance with the manufacturer's instructions and in such a manner as to achieve the performance requirements.
D. Penetrations of the continuous air barrier shall be made in a way such that the integrity of the continuous air barrier is maintained.

4. Compliance for continuous air barriers may be demonstrated using anyone of the following three methods:
A. Materials. Using individual materials that have an air permeability not to exceed 0.02 L/s m2 under a pressure differential of 75 Pa [0.004 cfm/ft2 under a pressure differential of 0.3 in. water (1.57 lb/ft2)] when tested in accordance with ASTM E 2178.
B. Assemblies. Assemblies of materials and components shall have an average air leakage not to exceed 0.2 L/s m2 under a pressure differential of 75 Pa [0.04 cfm/ft2 under a pressure differential of 0.3 in. water (1.57 lb/ft2) when tested in accordance with ASTM E 2357 or ASTM E 1677. In addition these assemblies must meet the requirement for joints per Section 502.4.3.
C. Building. Testing the completed building and demonstrating that the air leakage rate of the building envelope does not exceed 2.0 L/s·m^2 under a pressure differential of 75 Pa [0.4 cfm/ft2 under a pressure differential of 0.3 in. water (1.57 lb/ft2)] in accordance with ASTM E 779 or an equivalent approved method.

Building Envelope Insulation

1. In all cases where rigid insulation board is to be installed (e.g. below grade, above grade, roof), the insulation shall be tightly adjoined with no gaps between boards and flat against the respective substrate.

2. Interior and cavity insulation must be protected from air intrusion, moisture intrusion, and free of voids, gaps, and compression.

3. Cavity insulation must be in contact with the interior wall surface (e.g. drywall) and completely fill the interior wall cavity.

4. Batt insulation must be installed properly using splices to surround wires, electrical outlet/switch/junction boxes, pipes, and other obstructions within the insulated cavity.

5. Insulation that is intended to be continuous (interior or exterior) must be installed without breaks and at full thickness at all locations.

6. Insulation must be installed such that they achieve RESNET-defined Grade I installation or, alternatively, Grade II for walls with continuous insulation.

7. Metal-framed buildings must have continuous wall insulation.

8. Vapor impermeable air barriers for general coverage should only be specified on the warm side of insulation (i.e. interior side of insulation in predominately heating dominated climates). Vapor permeable air barriers should be specified in other cases.

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Exterior Air Barrier Application

1. Sealant Materials: Sealants shall have an expected life of at least 20 years as applied and be compatible with all substrate materials.

2. Masonry Wall Preparation: Ensure gaps are filled, joints struck, CMU is dry, and all snags are gone.

3. General Coverage (Liquid Membrane): Verify proper thickness of liquid-applied membranes using a wet mil gauge. At a minimum, substrate must not be visible.

4. General Coverage at Adjacent Building Conditions (Liquid Membrane): Where unable to install air barrier on the exterior of the building, a low VOC product shall be installed on the interior at full height (top of plank to bottom of plank at each floor). This shall happen before any interior framing is installed.

5. General Coverage / Transition Membrane Seams: Transition membranes shall be installed and sealed before insulation is installed on top. Seams shall be sealed with mastic type liquid membrane or with compatible sealant.

6. Air Barrier Penetrations: Air barrier penetrations shall be sealed with sealants compatible with all surfaces. Transition membranes shall be used to patch as necessary with seams sealed appropriately.

7. Rough Openings (Concrete Masonry Construction) - Windows and Doors:
A. Liquid air barrier shall wrap in at masonry rough openings to be flush with inside edge of window or door frame.
B. Sheet membrane or metal panel enclosure can be used as alternative as long as it is clear the air barrier is continuous and any gaps are sealed with back rod as necessary and sealant compatible with all surfaces.

8. Rough Openings (Steel Stud Construction) - Windows and Doors: Rough opening must be wrapped with sheet membrane all the way inside to be flush with inside edge.

9. Rough Openings - Pipes, Conduits, Ducts, Etc: Gaps shall be filled with backer rod as necessary and sealant compatible with all surfaces. Where smooth surfaces are present, mechanical gasket seals can be used.

10. Rough Openings - Cast Stone Sills: Cast stone sill shall be sealed to sill pan using compatible sealant where not sealed by grout.

11. Rough Openings - Gap at Window Frames: Gaps between window frame (header, jambs, sill) and rough opening shall be sealed on the interior with backer rod as necessary and sealant that is compatible with all surfaces.

12. Rough Openings - Gap at Exterior Door Frames: Gaps between door frame (header, jambs, threshold) and rough opening shall be sealed on the interior with backer rod as necessary and sealant that is compatible with all surfaces.

13. Rough Openings - A/C Sleeves:
A. Gaps between A/C sleeves and rough openings shall be sealed on the interior with backer rod as necessary and sealant that is compatible with all surfaces where not sealed by grout.
B. Insulated interior cover with compressible gasket must be provided for A/C sleeves.

14. Plank Edges (Steel Stud Construction) - At plank / exterior sheathing joint:
A. Transition membranes must be installed to span the sheathing / plank edge joint creating a bellows with backer rod. Transition membrane shall extend a minimum of 3" on each adjacent surface or per manufacturer's instructions.
B. Termination seams must be sealed with compatible sealant

15. Plank Edges (Concrete Masonry Construction) - At plank / CMU joint
A. Option 1 - If gap is greater then 1/4" Transition Membrane must be used to seal the gap with minimum 3" over lap
B. Option 2 - If gap is less then 1/4" Liquid Membrane can be used to seal the gap
C. Option 3 - When shelf angles are to be installed, through wall flashing must be draped from above to completely cover the joints at top and bottom edges of the plank and sealed to the shelf angle. The Liquid Membrane shall be installed continuously prior to shelf angle installation

16. Plank Edges - At plank / steel girder joint
A. Through wall flashing must be draped from above to completely cover this joint and the entire face of the girder and sealed to the shelf angle.
B. If the girder is solid and air tight, this detail can be sealed with a transition membrane spanning the top flange and interior underside of the plank if allowed by local code.

17. Steel Columns - Steel / CMU joints: Transition membrane to be installed after fire proofing has been applied, and span steel column and adhered to the adjacent CMU surfaces. Fire proofing may need to be applied thicker to keep the required R-Value.

18. Wall to Roof Connections: Liquid air barrier must be brought up over grout edge part of roof plank and shall be sealed over the plank / grout joint.

19. All Exterior, Stairwell-Corridor, Apartment-Corridor, and any Door separating a space that is vented to the outdoors (Boiler room, meter room, etc)
A. Install weatherstripping with rigid fastener and compressible closed cell foam insert
B. Sample manufacturers
a. Ultrafab Incorported
b. Pemko Manufacturing Company Inc.
c. Accurate Metal Weather-Strip

Recessed Lighting

1. Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces.

2. All recessed luminaires shall be IC-rated and labeled as meeting ASTM E 283 when tested at 1.57 psf (75 Pa) pressure differential with no more than 2.0 cfm (0.944 L/s) of air movement from the conditioned space to the ceiling cavity.

3. All recessed luminaires shall be sealed with a gasket or caulk between the housing and interior wall or ceiling covering.

Interior Air Tightness (Compartmentalization)

1. Apartment Air Sealing Testing & Verification
A. Apartments shall be sealed to reduce air exchange between the apartment and outside as well as the apartment and other adjacent spaces. Enclosed apartments must be fan pressure tested as an independent unit in accordance with either ASTM E779 2010 or ASTM E1827. The target maximum air leakage rate is 0.3 CFM per square foot of the enclosure bounding the apartment at an induced pressure difference of 50 pascals.

2. Firestopping
A. Ensure all penetrations in plank and CMU are sealed to reduce air infiltration and stack effect.

3. Demising Wall between Units
A. During drywall installation, leave space for demising wall drywall to be inserted.
B. Drywall sequence must take into account sealing the vertical joint of the demising wall drywall to the exterior wall. Use caulk or one component polyurethane foam along vertical joints.
C. Drywall sequence must also take into account sealing the portion of the demising drywall that becomes inaccessible once the perimeter drywall is installed (see figure below). Use a continuous bead of caulk or one component polyurethane foam to seal the inset portion of the drywall to the concrete plank/slab at the ceiling and floor.
D. All notches in drywall made for electrical cable, plumbing braces, etc. to be sealed with one component polyurethane foam or caulk.

4. Party Wall within a Unit
A. During drywall installation, leave space so that perimeter drywall is continuous.
B. Drywall sequence must take into account sealing the gap at the ceiling and floor between the layers of party wall drywall before the party wall is installed. Apply a continuous bead of sealant to all gaps between the drywall, ceiling and floor.
C. All notches in drywall made for electrical cable, plumbing braces, etc. to be sealed with one component polyurethane foam or caulk.

5. Drywall to Concrete Floor Plank Connection Interior Partitions and Exterior Walls
A. During installation of self-leveling compound, ensure that the gap between gypsum board and the concrete floor is completely sealed by the self-leveling compound.
B. Any remaining gaps must be sealed with caulk or foam sealant before baseboard heaters are installed on exterior walls.
C. If gap is 3/8" or less, use caulk. If gap is greater than 3/8", use foam.

6. Drywall to Concrete Ceiling Plank Interior Partitions and Exterior Walls
A. After installation of sheetrock, apply a continuous bead of sealant to the gap between the sheetrock and plank.
B. If installing a dropped ceiling, the concrete plank must be sealed to the drywall before installation of the dropped ceiling.

7. Recessed Medicine Cabinets
A. Seal all joints between gypsum board with tape and joint compound, foam, or caulk so the cavity is completely sealed before installing medicine cabinets.

8. Interior Door Frames (Bathrooms, Closets, Bedrooms, etc.)
A. Seal entire perimeter between door frame and drywall with caulk on both sides of all interior doors.

9. Electrical and Telecommunication Panels
A. Seal entire perimeter gap between panel and drywall using caulk.
B. Installed closed cell neoprene foam tape on the interior side of the panel door. Ensure door tightly seals to panel when closed.

10. Outlet and Electrical Boxes - Exterior and Demising Walls
A. Install Putty Pads
I. http://www.acousticalsolutions.com/firestop-putty-pads3
B. Use insulated, self closing outlet covers instead of conventional outlet covers
C. No outlets to be placed back to back on demising walls.

11. A/C Sleeve and Interior Drywall
A. Seal all joints between A/C sleeve and drywall with caulk. If necessary, insert backer rod into gap.

12. Underside of Window Sill to Drywall Connection
B. Seal joint between underside of the window sill and drywall with caulk.

13. HVAC Access Doors
A. Seal all gaps between the drywall and perimeter of the access door frame.
B. Add closed cell neoprene foam tape to an access door that is not originally weather stripped and ensure it closes tightly.

14. Heating Pipe Penetrations
A. Seal all heating pipe penetrations using foam or other sealant product rated for 200°F.

15. Plumbing Penetrations
A. Fill rough opening with gypsum compound, foam or caulk to seal plumbing penetrations before installation of escutcheon.
B. Areas include around shower heads, and under bathroom and kitchen sinks including around drain lines.

16. Sprinkler, Gas Line, and Wiring Penetrations
A. Fill opening with gypsum compound, foam or caulk to seal around all penetrations through drywall.

17. Door Latch Hole
A. If a blower test indicates significant leakage at this location, spray one part polyurethane foam above and below latch hole in door frame cavity. Cut away any foam that expands into operating area of the latch hole if necessary.

Damper Air Leakage Ratings

1. Outdoor air intakes and exhaust openings
A. Stair and elevator shaft vents and other outdoor air intakes and exhaust openings integral to the building envelope shall be equipped with not less than a Class I motorized, leakagerated damper with a maximum leakage rate of 4 cfm per square foot (6.8 L/s · m2) at 1.0 inch water gauge (w.g.) (1250 Pa) when tested in accordance with AMCA 500D.
B. Exception: Gravity (nonmotorized) dampers are permitted to be used in buildings less than three stories in height above grade.

Duct Sealing

1. All ducts, air handlers and filter boxes shall be sealed. Joints and seams shall comply with Section 603.9 of the Mechanical Code of NYC and the NYC Construction Codes. Use low-VOC mastic or equivalent UL-181 compliant material and install according to manufacturer's requirement. Do not apply mastic below recommended temperature range.

2. Duct Tightness Verification and Balancing

A. Central exhaust ducts shall be tested by SWA after all take-offs are installed, but before enclosed with drywall.
B. Central exhaust duct leakage shall be no more than 10 CFM/floor/grill inclusive of roof curbs, take offs, etc. for Performance Path projects (5 CFM for Prescriptive Path projects)
C. After roof fan start-up, all fans shall be adjusted to achieve 0.2-0.3" WC static pressure at grille farthest from the fan.

3. Traverse Joint Sealing
A. Apply mastic continuously at all transverse joints including any gaps between the finished drywall and duct.
B. After starting the male fitting into the female fitting and prior to seating the joint; apply a 2" wide band of mastic 20 – 30 mils thick to the exposed part of the male fitting. Fully seat the joint and mechanically fasten with sheet metal screws or rivets. Next apply a 2.5" wide band of mastic 20 – 30 mils thick to the outside of the joint covering the screws or rivets and joint gap.

4. Take Off Duct Sealing
A. Apply mastic continuously around all joints between take-off ducts and shafts.
B. Apply mastic to the outside of joint in minimum 2" wide band covering the screws or rivets and joint gap.

5. Roof Fan Curb Sealing
A. Before installation of roof curbs, seal gaps between ductwork and roofing plank.

Exceptions:
A. Factory installed piping within HVAC equipment tested and rated in accordance with a test procedure referenced by this code.
B. Factory installed piping within room fan coils and unit ventilators tested and rated according to AHRI Standards 440 (except that the sampling and variation provisions of Section 6.5 shall not apply) and 840, respectively.
C. Piping that conveys fluids that have not been heated or cooled through the use of fossil fuels or electric power.
E. Runout piping not exceeding 4 feet (1219 mm) in length and 1 inch (25 mm) in diameter between the control valve and HVAC coil.

· Piping shall be insulated prior to installation into hangers or other supports.

Cored holes drilled through the plank shall be large enough to allow the full thickness of insulation to pass through as required by pipe size and fluid type

Maintenance Information and Manuals

1. Maintenance instructions shall be furnished for equipment and systems that require preventive maintenance. Required regular maintenance actions shall be clearly stated and incorporated on a readily accessible label. The label shall include the title or publication number for the operation and maintenance manual for that particular model and type of product.

2. An operating and maintenance manual must be provided to the building owner by the mechanical contractor. The manual shall include, at least, the following:
A. Equipment capacity (input and output) and required maintenance actions.
B. Equipment operation and maintenance manuals.
C. HVAC system control maintenance and calibration information, including wiring diagrams, schematics, and control sequence descriptions. Desired or field-determined set points shall be permanently recorded on control drawings, at control devices or, for digital control systems, in programming comments.
D. A complete written narrative of how each system is intended to operate.

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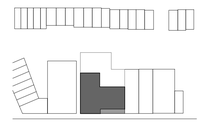

KEY PLAN:NTS

MA PROJECT NO. 1505
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909 ATLANTIC AVE.
BROOKLYN, NY 11238

NYCECC NOTES

DRAWING #: G-002 00

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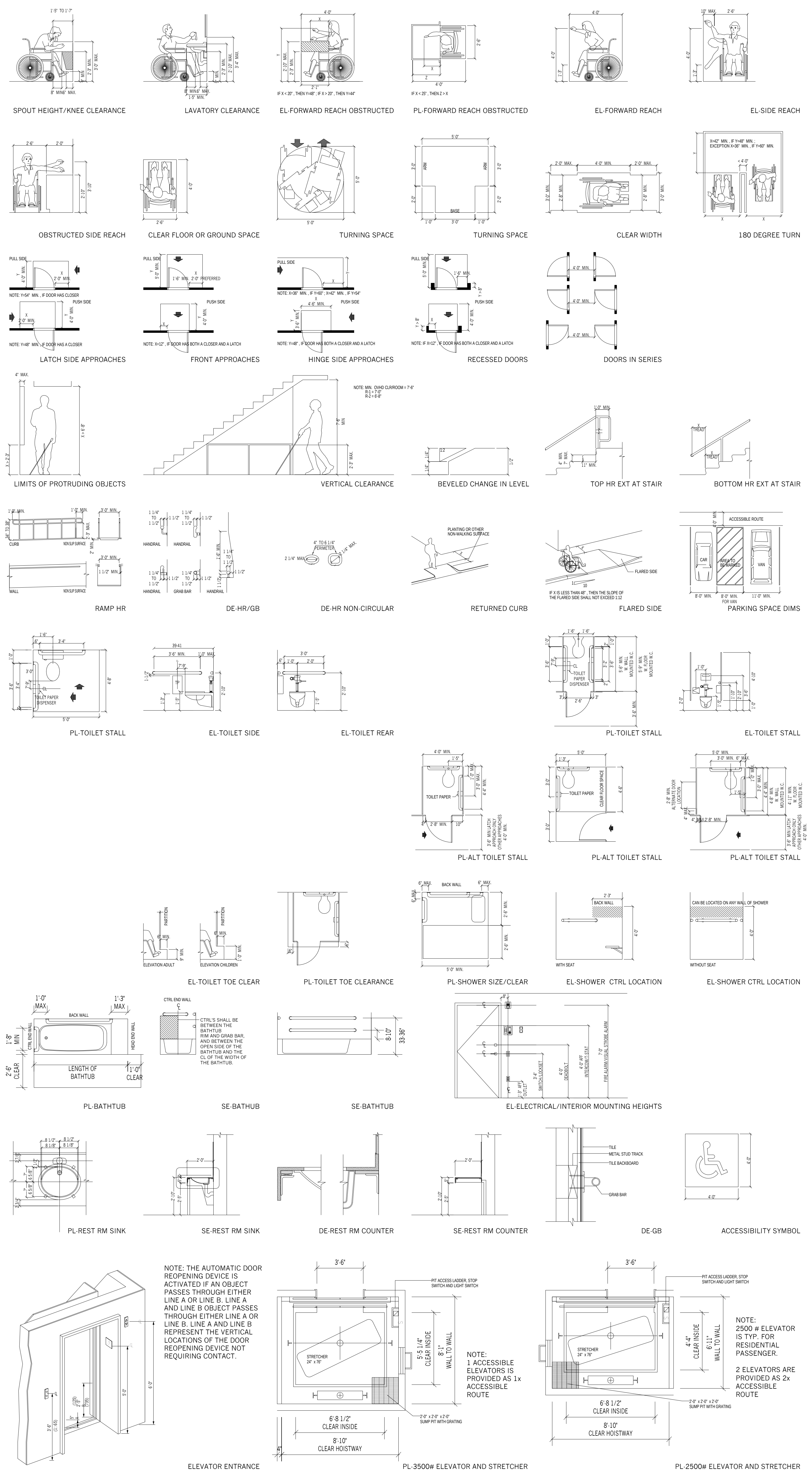

SPOUT HEIGHT/KNEE CLEARANCE
LAVATORY CLEARANCE
EL-FORWARD REACH OBSTRUCTED
PL-FORWARD REACH OBSTRUCTED
EL-FORWARD REACH
EL-SIDE REACH
OBSTRUCTED SIDE REACH
CLEAR FLOOR OR GROUND SPACE
TURNING SPACE
TURNING SPACE
CLEAR WIDTH
180 DEGREE TURN
LATCH SIDE APPROACHES
FRONT APPROACHES
HINGE SIDE APPROACHES
RECESSED DOORS
DOORS IN SERIES
LIMITS OF PROTRUDING OBJECTS
VERTICAL CLEARANCE
BEVELED CHANGE IN LEVEL
TOP HR EXT AT STAIR
BOTTOM HR EXT AT STAIR
RAMP HR
DE-HR/GB
DE-HR NON-CIRCULAR
RETURNED CURB
FLARED SIDE
PARKING SPACE DIMS
PL-TOILET STALL
EL-TOILET SIDE
EL-TOILET REAR
PL-TOILET STALL
EL-TOILET STALL
PL-ALT TOILET STALL
PL-ALT TOILET STALL
PL-ALT TOILET STALL
EL-TOILET TOE CLEAR
PL-TOILET TOE CLEARANCE
PL-SHOWER SIZE/CLEAR
EL-SHOWER CTRL LOCATION
EL-SHOWER CTRL LOCATION
PL-BATHTUB
SE-BATHUB
SE-BATHTUB
EL-ELECTRICAL/INTERIOR MOUNTING HEIGHTS
PL-REST RM SINK
SE-REST RM SINK
DE-REST RM COUNTER
SE-REST RM COUNTER
DE-GB
ACCESSIBILITY SYMBOL

NOTE: THE AUTOMATIC DOOR REOPENING DEVICE IS ACTIVATED IF AN OBJECT PASSES THROUGH EITHER LINE A OR LINE B. LINE A AND LINE B OBJECT PASSES THROUGH EITHER LINE A OR LINE B. LINE A AND LINE B REPRESENT THE VERTICAL LOCATIONS OF THE DOOR REOPENING DEVICE NOT REQUIRING CONTACT.

NOTE:
1 ACCESSIBLE ELEVATORS IS PROVIDED AS 1x ACCESSIBLE ROUTE

NOTE:
2500 # ELEVATOR IS TYP. FOR RESIDENTIAL PASSENGER.

2 ELEVATORS ARE PROVIDED AS 2x ACCESSIBLE ROUTE

ELEVATOR ENTRANCE
PL-3500# ELEVATOR AND STRETCHER
PL-2500# ELEVATOR AND STRETCHER

ACCESSIBILITY NOTES

NYCBC: 1104.3 CONNECTED SPACES. WHEN A BUILDING, OR PORTION OF A BUILDING, IS REQUIRED TO BE ACCESSIBLE, AN ACCESSIBLE ROUTE SHALL BE PROVIDED TO EACH PORTION OF THE BUILDING, TO ACCESSIBLE BUILDING ENTRANCES CONNECTING ACCESSIBLE PEDESTRIAN WALKWAYS AND THE PUBLIC WAY.

ADAAG: 206.2.2 WITHIN A SITE. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE.
ADAAG: 206.2.5 RESTAURANTS AND CAFETERIAS. IN RESTAURANTS AND CAFETERIAS, AN ACCESSIBLE ROUTE SHALL BE PROVIDED TO ALL DINING AREAS, INCLUDING RAISED OR SUNKEN DINING AREAS, AND OUTDOOR DINING AREAS.

ADAAG: 303 CHANGES IN LEVEL
303.2 VERTICAL. CHANGES IN LEVEL OF ¼ INCH (6.4 MM) HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL.
303.3 BEVELED. CHANGES IN LEVEL BETWEEN ¼ INCH (6.4 MM) HIGH MINIMUM AND ½ INCH (13 MM) HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.
303.4 RAMPS. CHANGES IN LEVEL GREATER THAN ½ INCH (13 MM) HIGH SHALL BE RAMPED.

ADAAG: 304 TURNING SPACE
AS SHOWN IN THE DRAWINGS

ADAAG: PROTRUDING OBJECTS:
307.3 POST-MOUNTED OBJECTS. FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS SHALL OVERHANG CIRCULATION PATHS 12 INCHES (305 MM) MAXIMUM WHEN LOCATED 27 INCHES (685 MM) MINIMUM AND 80 INCHES (2030 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE A SIGN OR OTHER OBSTRUCTION IS MOUNTED BETWEEN POSTS OR PYLONS AND THE CLEAR DISTANCE BETWEEN THE POSTS OR PYLONS IS GREATER THAN 12 INCHES (305 MM), THE LOWEST EDGE OF SUCH SIGN OR OBSTRUCTION SHALL BE 27 INCHES (685 MM) MAXIMUM OR 80 INCHES (2030 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

ADAAG: 308 REACH
AS SHOWN IN THE DRAWINGS

ADAAG: 404 DOORS, DOORWAYS, AND GATES
404.2.3 CLEAR WIDTH. DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES (815 MM) MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES (610 MM) DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES (915 MM) MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES (865 MM) ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES (865 MM) AND 80 INCHES (2030 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES (100 MM).

404.2.9 DOOR AND GATE OPENING FORCE. FIRE DOORS SHALL HAVE A MINIMUM OPENING FORCE ALLOWABLE BY THEE IS ESSENTIAL TO THE FUNCTION OF THE WORK BEING PERFORMED.
405.3 CROSS SLOPE. CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48.
405.6 RISE. THE RISE FOR ANY RAMP RUN SHALL BE 30 INCHES (760 MM) MAXIMUM.
405.8 HANDRAILS. RAMP RUNS WITH A RISE GREATER THAN 6 INCHES (150 MM) SHALL HAVE HANDRAILS.
EXCEPTION: WITHIN EMPLOYEE WORK AREAS, HANDRAILS SHALL NOT BE REQUIRED WHERE RAMPS THAT ARE PART OF COMMON USE CIRCULATION PATHS ARE DESIGNED TO PERMIT THE INSTALLATION OF COMPLIANT HANDRAILS.
405.9.2 CURB OR BARRIER. A CURB OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4 INCH (100 MM) DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4 INCHES (100 MM) OF THE FINISH FLOOR OR GROUND SURFACE.

ADAAG: 407 ELEVATORS
407.1 GENERAL. ELEVATORS SHALL COMPLY WITH ADAAG AND WITH ASME A17.1 (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1). THEY SHALL BE PASSENGER ELEVATORS AS CLASSIFIED BY ASME A17.1. ELEVATOR OPERATION SHALL BE AUTOMATIC.

ADAAG: 503 PASSENGER LOADING ZONES
503.2 VEHICLE PULL-UP SPACE. PASSENGER LOADING ZONES SHALL PROVIDE A VEHICULAR PULL-UP SPACE 96 INCHES (2440 MM) WIDE MINIMUM AND 20 FEET (6100 MM) LONG MINIMUM.
503.3 ACCESS AISLE. PASSENGER LOADING ZONES SHALL PROVIDE ACCESS AISLES ADJACENT TO THE VEHICLE PULL-UP SPACE. ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE AND SHALL NOT OVERLAP THE VEHICULAR WAY.
503.3.1 WIDTH. ACCESS AISLES SERVING VEHICLE PULL-UP SPACES SHALL BE 60 INCHES (1525 MM) WIDE MINIMUM.
503.3.2 LENGTH. ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE VEHICLE PULL-UP SPACES THEY SERVE.

ADAAG: 504 STAIRWAYS
504.2 TREADS AND RISERS. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTHS. RISERS SHALL BE 4 INCHES (100 MM) HIGH MINIMUM AND 7 INCHES (180 MM) HIGH MAXIMUM. TREADS SHALL BE 11 INCHES (280 MM) DEEP MINIMUM.
504.5 NOSINGS. THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE ½ INCH (13 MM) MAXIMUM. NOSINGS THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 30 DEGREES MAXIMUM FROM VERTICAL. THE PERMITTED PROJECTION OF THE NOSING SHALL EXTEND 1½ INCHES (38 MM) MAXIMUM OVER THE TREAD BELOW.
504.7 WET CONDITIONS. STAIR TREADS AND LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.

ADAAG: 505 HANDRAILS
505.4 HEIGHT. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES (865 MM) MINIMUM AND 38 INCHES (965 MM) MAXIMUM VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES
505.5 CLEARANCE. CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL BE 1½ INCHES (38 MM) MINIMUM.
505.7.1 CIRCULAR CROSS SECTION. HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1¼ INCHES (32 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM.
505.7.2 NON-CIRCULAR CROSS SECTIONS. HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES (100 MM) MINIMUM AND 6¼ INCHES (160 MM) MAXIMUM, AND A CROSS-SECTION DIMENSION OF 2¼ INCHES (57 MM) MAXIMUM.
505.8
505.10.2 TOP EXTENSION AT STAIRS. AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305 MM) MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
505.10.3 BOTTOM EXTENSION AT STAIRS. AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE AT LEAST EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. EXTENSION SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

ADAAG: 604 WATER CLOSETS AND TOILET COMPARTMENTS
SEE ADA DIAGRAMS THIS SHEET.

604.9 WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDREN'S USE.
604.9.1 LOCATION. THE WATER CLOSET SHALL BE LOCATED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 12 INCHES (305 MM) MINIMUM AND 18 INCHES (455 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION, EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES (430 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION IN THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT.
604.9.3 HEIGHT. THE HEIGHT OF WATER CLOSETS SHALL BE 11 INCHES (280 MM) MINIMUM AND 17 INCHES (430 MM) MAXIMUM MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.
604.9.5 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL BE INSTALLED 36 INCHES (915 MM) MAXIMUM ABOVE THE FINISH FLOOR. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.
604.9.6 DISPENSERS. TOILET PAPER DISPENSERS SHALL BE 7 INCHES (180 MM) MINIMUM AND 9 INCHES (230 MM) MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE 14 INCHES (355 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM ABOVE THE FINISH FLOOR. THERE SHALL BE A CLEARANCE OF 1½ INCHES (38 MM) MINIMUM BELOW THE GRAB BAR. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW.

ADAAG: 606 LAVATORIES AND SINKS
606.3 HEIGHT. LAVATORIES AND SINKS SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34 INCHES (865 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
606.5 EXPOSED PIPES AND SURFACES. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

ADAAG: 607 BATHTUBS
607.2 CLEARANCE. CLEARANCE IN FRONT OF BATHTUBS SHALL EXTEND THE LENGTH OF THE BATHTUB AND SHALL BE 30 INCHES (760 MM) WIDE MINIMUM. A LAVATORY COMPLYING WITH 606 SHALL BE PERMITTED AT THE CONTROL END OF THE CLEARANCE. WHERE A PERMANENT SEAT IS PROVIDED AT THE HEAD END OF THE BATHTUB, THE CLEARANCE SHALL EXTEND 12 INCHES (305 MM) MINIMUM BEYOND THE WALL AT THE HEAD END OF THE BATHTUB.

ADAAG: 608 SHOWER COMPARTMENTS
608.2.1 TRANSFER TYPE SHOWER COMPARTMENTS. TRANSFER TYPE SHOWER COMPARTMENTS SHALL BE 36 INCHES (915 MM) BY 36 INCHES (915 MM) CLEAR INSIDE DIMENSIONS MEASURED AT THE CENTER POINTS OF OPPOSING SIDES AND SHALL HAVE A 36 INCH (915 MM) WIDE MINIMUM ENTRY ON THE FACE OF THE SHOWER COMPARTMENT. CLEARANCE OF 36 INCHES (915 MM) WIDE MINIMUM BY 48 INCHES (1220 MM) LONG MINIMUM MEASURED FROM THE CONTROL WALL SHALL BE PROVIDED.

608.3 GRAB BARS. GRAB BARS SHALL BE PROVIDED.
WHERE MULTIPLE GRAB BARS ARE USED, REQUIRED HORIZONTAL GRAB BARS SHALL BE INSTALLED AT THE SAME HEIGHT ABOVE THE FINISH FLOOR.

ADAAG: 609 GRAB BARS
609.4 POSITION OF GRAB BARS. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 INCHES (840 MM) MINIMUM AND 36 INCHES (915 MM) MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE, EXCEPT THAT AT WATER CLOSETS FOR CHILDREN'S USE, GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION 18 INCHES (455 MM) MINIMUM AND 27 INCHES (685 MM) MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE.

EXCEPTIONS:
1. GRAB BARS SHALL NOT BE REQUIRED TO BE INSTALLED IN A SHOWER LOCATED IN A BATHING FACILITY FOR A SINGLE OCCUPANT ACCESSED ONLY THROUGH A PRIVATE OFFICE, AND NOT FOR COMMON USE OR PUBLIC USE PROVIDED THAT REINFORCEMENT HAS BEEN INSTALLED IN WALLS AND LOCATED SO AS TO PERMIT THE INSTALLATION OF GRAB BARS.

2. IN RESIDENTIAL DWELLING UNITS, GRAB BARS SHALL NOT BE REQUIRED TO BE INSTALLED IN SHOWERS LOCATED IN BATHING FACILITIES PROVIDED THAT REINFORCEMENT HAS BEEN INSTALLED IN WALLS AND LOCATED SO AS TO PERMIT THE INSTALLATION OF GRAB BARS.

ADAAG: 703 SIGNS
703.1 GENERAL. WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED.
703.2 RAISED CHARACTERS. RAISED CHARACTERS SHALL BE DUPLICATED IN BRAILLE.
703.2.1 DEPTH. RAISED CHARACTERS SHALL BE 1/32 INCH (0.8 MM) MINIMUM ABOVE THEIR BACKGROUND.
703.2.2 CASE. CHARACTERS SHALL BE UPPERCASE.
703.2.3 STYLE. CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
703.2.5 CHARACTER HEIGHT. CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH (16 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".

703.4.1 HEIGHT ABOVE FINISH FLOOR OR GROUND. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1220 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
703.4.2 LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.
EXCEPTION:

1107.2.1 TYPE B UNIT DOORS AND DOORWAYS IN R-2 OCCUPANCY. DOORS AND DOORWAYS AT THE ENTRANCE(S) TO THE DWELLING OR SLEEPING UNIT SHALL HAVE MANEUVERING CLEARANCES AS SHOWN IN THE DRAWINGS.

EXCEPTIONS:

3. MANEUVERING CLEARANCE AT DOORS. WHERE PULL SIDE, LATCH APPROACH MANEUVERING CLEARANCE IS REQUIRED WITHIN THE DWELLING OR SLEEPING UNIT FOR A DOOR WITHOUT A CLOSER THE MINIMUM MANEUVERING CLEARANCE PERPENDICULAR TO THE DOORWAY SHALL BE PERMITTED TO BE REDUCED TO 42 INCHES (1067 MM).

4. DOOR HARDWARE. DOOR HARDWARE ON DOORS WITHIN THE DWELLING OR SLEEPING UNIT, EXCEPT ON ENTRANCE DOORS, SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 404.2.6 (DOOR HARDWARE) OF ICC A117.1 PROVIDED SUCH HARDWARE IS READILY REPLACEABLE WITHOUT THE REMOVAL OR REPLACEMENT OF THE DOOR.

5. FUTURE REVERSIBILITY FOR BEDROOM DOORS. BEDROOM DOORS AND FRAMES SHALL BE PERMITTED TO BE PROVIDED WITH MORTISED HINGE AND LATCH BLANKS TO PERMIT FUTURE REVERSAL OF THE DOOR ON THE SAME FRAME USING COMMON HAND TOOLS AND WITHOUT FURTHER ALTERATIONS TO THE DOOR AND FRAME, PROVIDED SUCH FUTURE SWING OF THE DOOR WILL NOT OBSTRUCT THE MANEUVERING CLEARANCES REQUIRED AT THE DOOR OR DOORWAY.

6. FLEX-CLOSET. WHERE FRONT APPROACH, PULL SIDE MANEUVERING CLEARANCE IS REQUIRED AT A MANUAL SWINGING DOOR SUCH CLEARANCE SPACE MAY BE USED FOR A READILY REMOVABLE STORAGE CLOSET PROVIDED THAT:
· SUCH CLOSET IS SO CONSTRUCTED THAT THE FRONT APPROACH, PULL SIDE MANEUVERING CLEARANCE CAN BE RESTORED BY REMOVING THE CLOSET DOORS, FLOOR TRACKS, AND SHELVES USING COMMON HAND TOOLS AND WITHOUT ALTERATIONS TO THE FLOOR OR FLOORING, WALLS OR PARTITIONS; AND
· IN ANY DWELLING UNIT OR SLEEPING UNIT CONTAINING A FLEX-CLOSET, THE DWELLING UNIT OR SLEEPING UNIT MUST CONTAIN THE FOLLOWING ADDITIONAL CLOSETS:
a. AN ACCESSIBLE NONFLEX-CLOSET IN EACH BEDROOM EQUIVALENT TO AT LEAST ONE 4 FEET (1219 MM) WIDE BY 2 FEET, 6 INCHES (762 MM) DEEP AND 5 FEET (1524 MM) HIGH OR, IN AN EFFICIENCY APARTMENT, AT LEAST ONE SUCH CLOSET; AND
ii. AN ACCESSIBLE NONFLEX-CLOSET EQUAL IN CUBIC FOOTAGE TO THE FLEX CLOSET THAT IS LOCATED OUTSIDE OF BEDROOMS, KITCHEN OR BATHROOM.

7. SUPPLEMENTAL TOILET AND BATHING FACILITIES. WHERE ONE TYPE A TOILET AND BATHING FACILITY IS PROVIDED IN A TYPE B UNIT IN ACCORDANCE WITH THE EXCEPTION IN SECTION 1107.2.2, THE DOORS AND DOORWAYS TO ALL OTHER TOILET AND BATHING FACILITIES IN THAT DWELLING UNIT SHALL NOT BE REQUIRED TO COMPLY WITH MANEUVERING CLEARANCES, BUT SHALL COMPLY WITH SECTION 1004.5.2 (USER PASSAGE DOORWAYS) OF ICC A117.1 AND SHALL PROVIDE CLEAR OPENING WIDTH OF 32 INCHES (813 MM) MINIMUM.

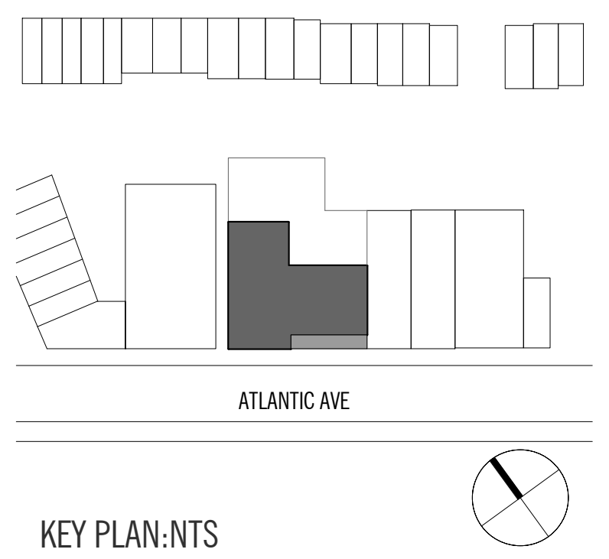
1107.2.5 TYPE B MULTISTORY UNITS IN R-2 OCCUPANCY. MULTISTORY DWELLING OR SLEEPING UNITS SHALL COMPLY WITH THE FOLLOWING:
1. ONE OF THE STORIES WITH AN ACCESSIBLE ENTRANCE SHALL BE DESIGNATED AS THE PRIMARY ENTRY STORY TO THE UNIT;
2. ALL ROOMS, SPACES AND DOORS ON THE PRIMARY ENTRY STORY SHALL COMPLY WITH SECTION 1107.2; AND;
3. ROOMS, SPACES OR DOORS LOCATED ON OTHER THAN THE PRIMARY ENTRY STORY, AND INTERIOR ROUTES THERETO, NEED NOT COMPLY WITH SECTION 1107.2 WHERE THE PRIMARY ENTRY STORY CONTAINS EQUIVALENT FUNCTIONAL FACILITIES.
EXCEPTION: FUNCTIONAL FACILITIES IN COMPLIANCE WITH SECTION 1107.2 MAY BE LOCATED ON ANY STORY WITHIN THE DWELLING OR SLEEPING UNIT, PROVIDED THAT ALL ROOMS, SPACES AND DOORS LOCATED ON SUCH STORY CONTAINING SUCH FUNCTIONAL FACILITIES COMPLY WITH SECTION 1107.2. IN ADDITION, A TOILET FACILITY COMPLYING WITH SECTION 1107.2.2 SHALL BE PROVIDED ON THE PRIMARY ENTRY STORY, AND ONE OF THE FOLLOWING CONDITIONS SHALL BE MET:
1. AN ACCESSIBLE EXTERNAL ELEVATOR IS PROVIDED TO CONNECT ALL SUCH STORIES OF THE MULTISTORY DWELLING OR SLEEPING UNIT; OR
2. A STAIRWAY COMPLYING WITH SECTION 504 (STAIRWAYS) OF ICC A117.1 WITH A MINIMUM CLEAR WIDTH OF 36 INCHES (914 MM) IS PROVIDED WITHIN THE MULTISTORY DWELLING OR SLEEPING UNIT TO CONNECT ALL SUCH STORIES OF THE UNIT; OR
3. AN ACCESSIBLE ROUTE COMPLYING WITH SECTION 402 (ACCESSIBLE ROUTES) OF ICC A117.1 IS PROVIDED WITHIN THE DWELLING OR SLEEPING UNIT TO CONNECT ALL SUCH STORIES OF THE UNIT.

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

ACCESSIBILITY NOTES

REGISTERED ARCHITECT
JONATHAN JOVA MARVEL
No. 021651
STATE OF NEW YORK

DRAWING #: G-003.00

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DOB ##### ZONE

DOB STAMP ZONE

MULTIPLE DWELLING NOTES

1. D26-12.01 PAINTING OF PUBLIC PARTS AND WITHIN DWELLINGS

A. In the public parts of a multiple dwelling, the owner shall:
(1) Paint or cover the walls and ceilings with wallpaper or other acceptable wall covering: and
(2) Repaint or re-cover the walls and ceilings with wallpaper or other acceptable wall covering whenever necessary in the judgment of the department to keep such surfaces sanitary.

B. In occupied dwelling units in a multiple dwelling, the owner shall:
(1) Paint or cover the walls and ceilings with wallpaper or other acceptable wall coverings: and
(2) Repaint or re-cover the walls and ceilings with wallpaper or other acceptable wall covering every three years, and more often when required by contract or other provisions of law.

C. The department may require a tenant of a dwelling unit in a multiple dwelling to repaint or recover the interior walls and ceilings of his dwelling unit with wallpaper or other acceptable wall covering if such walls and ceiling become unsanitary at any time within three years from the date of the last refinishing by the owner. However, if the tenant can show, to the satisfaction of the department or neglect of his own or of his family or guests, the department may require the owner to repaint or re-cover the same. This subsection does not relieve the owner from his duties under subsection (B) (2) of this section.

D. The owner and tenant of any dwelling unit in a multiple dwelling may, by voluntary agreement, provide that the owner need not repaint in such unit as required by subsection (B)(2) of this section for such additional period, not to exceed two years, as may be agreed upon. Such an agreement to extend the time for repainting shall not be valid unless it has been entered into not earlier than one month prior to the expiration of the three-year period, and shall not form part of any agreement of lease. The department may prescribe the form of such agreements, require them to be filed, and may make such other regulations as may be necessary to avoid abuse, and to further the purpose of this article. Notwithstanding any agreement, the department may, during the period for which repainting is deferred by agreement, order repainting by the owner in any dwelling unit when deemed necessary to keep the walls and ceiling of such unit sanitary. This sub-section shall not affect the applicability of sub-section (C) of this section during the three years after any repainting or re-covering.

E. Neither the owner nor a tenant of a dwelling unit shall place wallpaper or wall coverings upon a wall or ceiling in the public or tenant-occupied parts of a dwelling unless existing wallpaper or wall covering is first removed and such wall or ceiling is cleaned and repaired. However, if wallpaper or wall covering is in good condition, free from vermin and a coat of acceptable paint or sizing is applied, one additional layer of wallpaper or wall covering may be applied.

F. Nothing contained in the section shall be deemed to require the owner of a dwelling to cover with wallpaper or other acceptable covering a wall or ceiling not previously covered so covered by him. When a wall or ceiling of a dwelling unit has been decorated with paper, wood paneling, or other material over which paint normally is not applied, the owner shall be relieved of his obligation to repaint or re-cover such wall or ceiling so long as the same remains in a sanitary condition, in the judgment of the department. When the department requires redecoration of such wall or ceiling, material which he himself has applied before the owner is required to clean and repair and repaint or re-cover. However, if the owner or former tenant has applied paper, or wall covering, wood paneling, or other material, the owner shall be responsible for its removal before redecoration.

G. The owner of a multiple dwelling shall keep and maintain records relating to the refinishing of public parts and dwelling units showing when such parts were last painted, papered, or covered with acceptable material and who performed the work. Such records shall be open to inspection by the department and shall be submitted to the department upon request.

H. (1) The owner of a multiple dwelling shall remove or cover in a manner approved by the department. Any paint or other similar surface-coating material having a reading of .7 milligrams of lead per square centimeter or greater containing more than .5 percent of metallic lead based on the non-volatile content of the paint or other similar surface-coating material on the interior walls, ceilings, doors, window sills or moldings in any dwelling unit in which a child or children six (6) years of age or under reside.

(2) In any multiple dwelling erected prior to January 1, 1960 in which paint of other similar surface coating material is found to be peeling on the interior walls, ceilings, doors, window sills or moldings in any dwelling unit in which a child or child six (6) years of age or under reside, it shall be presumed that the peeling substance contains more than 0.5 percent or metallic lead based on the non-volatile content of the paint of other similar surface-coating material or having a reading of 0.7 milligrams of lead per square centimeter or greater.

(3) The existence of paint or other similar surface square-coating material having a reading of 0.7 milligrams of lead per square centimeter or greater or containing more than 0.5 percent of metallic lead based on the non-volatile content of the paint of similar surface-coating material on the interior walls, ceilings, doors, window sills, or moldings in any dwelling unit in a multiple dwelling in which a child or children six (6) years of age and under reside shall constitute a class C violation rebutted by the owner of the multiple dwelling. Such proof shall be in immediately hazardous violation and subject the owner of such multiple form and substance acceptable to the department or a court of dwelling to the penalties of such violation provided in article 51 of competent jurisdiction.

(4) The department shall transmit to the department of health a list of violations p0laced pursuant to this section by premises.

(5) The department shall establish procedures for the enforcement of this subdivision.

2. D26-13.03 RODENT AND INSECT ERADICATION: MANDATORY EXTERMINATION

A. The owner or occupant in control of a dwelling shall keep the premises free from rodents and from infestations of insects and other pests and from any condition conducive to rodent or insect and other pest life.

B. When any premises is subject to infestation by rodents or insects and other pests, the owner or occupant in control shall apply continuous eradication measures.

C. When the department makes the determination that any premises are infested by rodents, insects, or other pests, it may order such eradication measures as the department deems necessary.

3. D26-13.05 ELIMINATION OF HARBORAGES

A. All building material, lumber, boxes, cartons, barrels, containers, machinery, raw material, fabricated goods, junk, food, animal feed, and any other substances which may afford harborage or provide food for such rodents or insects and other pests shall be kept stored or handled by the owner and tenants of every dwelling in such manner as the department may require. The department may make orders to eliminate rat harborage to the person who is responsible for the conditions. The department shall uncover and inspect periodically all structural harborages which cannot be eliminated from dwellings.

4. D26-14.01 DEFINITIONS

A. When used in this article:
(1) Organic wastes shall mean all wastes produced by or from living organisms.
(2) Inorganic wastes shall mean all wastes other than organic wastes, including discarded lumber, wood shavings, and furniture.
(3) Household wastes shall mean all wastes, organic and inorganic, which are produced within a dwelling unit.

5. D26-14.03 RECEPTACLES FOR WASTE MATTER

A. The owner or occupant in control of a dwelling shall provide and maintain metal cans, or other receptacles jointly approved as to specifications by the department, the environmental protection administration and the department of health, for the exclusive use of each building, which shall be of sufficient size and number to contain the wastes accumulated in such building during a period of 72 hours. No respectable shall be filled to a height so as to prevent the effective closure thereof and no receptacle shall weight more than 100 pounds when filled. The receptacles shall be so constructed as to hold their contents without leakage. Metal cans shall be effectively provided with tight-fitting covers and other receptacles shall be effectively closed. When requested by the Environmental Protection Administration the owner or occupant in control shall separate and place in separate receptacles ashes, organic and inorganic wastes. Nothing contained in this subsection shall prevent the department of health from jointly approving as to specifications other systems for the disposal of waste or utilizing containers of larger size and different construction as may be appropriate for such systems.

B. Metal cans shall be kept within the dwelling or as required by the department until the time for removal of their contents when they shall be placed in front of the dwelling. When inside storage is required, receptacles of other materials shall be kept in a metal can or a rat-proof and fire-proof room until the time of their removal when they shall be removed from the metal can and be neatly stacked in front of the dwelling. After the contents have been removed by the Environmental Protection Administration, any receptacles remaining shall be returned promptly to their place of storage. Metal cans shall be kept covered at all times and shall de disinfected regularly and maintained in a sanitary condition. Yard sweepings, hedge cuttings, grass, leaves, earth, stone, or bricks shall not be mixed with household wastes.

C. Newspapers, wrapping paper, or other inorganic wastes which are likely to be blown or scattered about the streets shall be securely bundled, tied, or repacked before being placed for collection. Such materials shall be kept and placed for collection in the same manner as the receptacles.

6. D26-14.05 FREQUENCY OF COLLECTION WASTE MATTER FROM DWELLING UNITS IN MULTIPLE DWELLINGS

A. The owner of a multiple dwelling shall not allow the accumulation except in a lawful receptacle of ashes or any type of waster matter in any part of the premises.

B. In multiple dwellings where the owner provides dumbwaiter service, all waste matter shall be collected at least once daily and deposited in separate receptacles.

C. In multiple dwellings where no dumbwaiter service is provided, the owner shall provide between the hours of seven A.M. and ten A.M. or between five P.M. and eight P.M. daily:

(1) A sufficient number of receptacles but in no event less than two within the dwelling or other area approved by the department which are accessible to the tenants. Such receptacles shall be removed promptly upon the expiration of the selected time period and taken to their place of storage: or

(2) A pick-up service at each dwelling unit to collect ashes and wastes for deposit in the receptacles referred to in section 26-14.03 of this article.

(3) The owner shall post and maintain a notice in a conspicuous place in the dwelling informing the tenants of the hour and method of collection. A new notice shall be posted and maintained within 48 hours preceding any change in such hour or method.

D. The tenant of a multiple dwelling shall dispose of waste matter in accordance with the method provided by the owner under subsection (B) or (C) of this section. The tenant shall not accumulate any waste matter in his dwelling unit so as to create a condition which is unsanitary or a fire hazard in the judgment of the department.

E. Subsections (B), (C), and (D) shall not apply to any multiple dwelling where regular incinerator services or other means of disposal approved by the department are provided. The tenant in such a dwelling shall dispose of waste matter in an incinerator or by such other approved means of disposal and shall not permit wastes to accumulate so as to create a condition which is unsanitary or a fire hazard in the judgment of the department.

7. D26-18.03 DRAINAGE OF ROOFS AND COURT YARDS

A. The owner of a dwelling shall grade and maintain the grading of all roofs, terraces, shafts, courts, yards, and other open spaces on the lot, and shall provide and maintain unobstructed drainage from these areas and spaces through a drain connected to a street storm-water main or combined sewer and street storm-water main. The department may permit the storm water from such areas to drain into a street gutter leading to a natural channel, water course, or dry well.

B. The owner of a dwelling shall provide and maintain drainage from all roofs to carry off storm water to prevent it from dripping to the ground, or from causing dampness in walls, ceilings, and open spaces.

C. The department may require the owner of a dwelling to surface that, with respect to private dwellings, the department may permit shafts, courts, yards, and other open spaces on the lot with the surfacing of such areas with bituminous aggregate or other concrete, and to pitch the surfaces of such areas towards a similar material.

D. The owner of a dwelling may plant grass, sod, shrubs, trees, and other vegetation in yards and courts, unless the department orders its removal because in its opinion such vegetation interferes with proper drainage, light, ventilation, or egress.

8. D26-19.01 DUTY TO PROVIDE ELECTRIC LIGHTING EQUIPMENT IN ALL DWELLINGS

A. The owner shall equip every dwelling for lighting by electricity. He shall provide and maintain light fixtures to provide lighting for all public parts in a dwelling, including the means of egress, for every room, water-closet compartment and bathroom in every dwelling unit, and for every fixture, the owner shall install and maintain such receptacle outlets as may be required by the electrical code, the owner may substitute an additional receptacle outlet for a required light fixture in living rooms other than kitchens.

9. D26-19.03 ELECTRIC LIGHTING FIXTURES IN CERTAIN PUBLIC PARTS OF DWELLINGS; FIXTURES AND LIGHTS REQUIRED

A. In every multiple dwelling and tenant-occupied two-family dwelling the owner shall provide electric lighting fixtures for every public hall, stair, fire-stair, and fire-tower on every floor, in accordance with the following requirements:

(1) If an incandescent lighting fixture is provided, it shall be capable of providing illumination of at least ten watts per 25 square feet of floor area or fraction thereof. Each lighting fixture shall be provided with one or more lights of a total of not less than 60 watts. Where, under this requirement, the number of watts per fixture would exceed 100, one of more additional fixtures shall be provided and shall be located as may be prescribed by the department, except where the distance from the fixture to the farthest intersecting wall does not exceed 20 feet.

(2) If a fluorescent lighting fixture is provided, it shall be capable of providing illumination of at least four watts cool white fluorescent light per 25 square feet of floor-area or fraction thereof. Each lighting fixture shall be provided with one or more lights of a total of not less than 20 watts. Where, under this requirement, the number of watts per fixture would exceed 40, one or more additional fixtures shall be provided and shall be located as may be prescribed by the department except where the distance from the fixture to the farthest intersecting wall does not exceed 20 feet.

(3) In every multiple dwelling hereafter erected, in addition to other lighting requirements, a sufficient number of incandescent or fluorescent fixtures shall be provided so that the distance between fixtures is not more than 30 feet and so that no wall is more than 15 feet distant from a fixture.

B. Notwithstanding any other requirement of this section, the department may require fixtures to be so located and additional fixtures to be installed, in order to assure that every part of every public hall, stair, fire-stair, for fire-tower is adequately lighted.

10. D26-19.05 LIGHTING TO BE PROVIDED AT NIGHT: OWNER'S RESPONSIBILTY

A. The owner of a multiple dwelling shall turn on all required lights in every public hall and stair at sunset every day and keep them on until sunrise the day following.

B. The owner of a multiple dwelling shall keep all required lights burning continuously: (1) In every fire-stair and fire tower; (2) In every stair and public hall where there is no window opening on a street, court, yard, space above a setback, or on a shaft; and (3) In every stair and public hall where there is a window which is in the opinion of the department does not provide adequate natural light.

C. The owner of the multiple dwelling shall provide electric light at all hours of the day and night in rooms or spaces in multiple dwellings in which laundry equipment is provided for the common use of the occupants whenever natural light is insufficient in the opinion of the department.

D. The owner of a multiple dwelling shall install and maintain in working condition a lighting fixture that can be turned on by a tenant or by the mail carrier directly over a mail box or other receptacle for mail if the natural light in the public halls is not sufficient to read the name on each mail box or receptacle.

E. The owner of a multiple dwelling shall not be responsible if any required light becomes extinguished and remains so if he can show to the satisfaction of the department or court that it became and remained extinguished without his knowledge or consent.

11. D26-19.07 LIGHTS NEAR ENTRANCE WAYS AND IN YARDS AND COURTS OF MULTIPLE DWELLINGS

A. The owner of a multiple dwelling shall install and maintain one or more lights at or near the outside of the front entrance way of the building which shall in the aggregate provide not less than 50 watts incandescent illumination or its equivalent for a building with a frontage in excess of 22 feet and front entrance doors with a combined width in excess of five (5) feet. The owner shall install at least two lights, one on each side of the entrance way, with an aggregate illumination of 150 watts incandescent illumination or its equivalent. If the minimum level of illumination is maintained, the owner may determine details of location, design, and installation of lighting fixtures, subject, however, to regulations of the department with respect to the minimum height above or distance from the entrance way of such fixtures, and the electrical and other safety of their installation. The lights required by this subsection shall be burning from sunset on each day to sunrise on the day following.

B. The owner of a multiple dwelling shall install and maintain in every yard and court, one or more lights of at least 40 watts of incandescent illumination or its equivalent, in such locations as the department may prescribe. The lights required by the subsection shall be kept burning from sunset on each day to sunrise on the day following.

12. D26-20.01 PEEPHOLES

A. In every dwelling, the owner shall provide and maintain a peephole in the entrance floor of each dwelling unit. Such peephole shall be located, as prescribed by the department, in such a place that the person in each dwelling unit may view from the inside any person immediately outside the entrance door.

13. D26-20.03 MIRRORS IN ELEVATORS

A. The owner of a multiple dwelling in which there are one or more self-service elevators shall affix and maintain in each such elevator a mirror which enables persons to view its interior before entering the same. The mirror shall meet such requirements as the department shall by regulation prescribe.

14. D26-20.05 LOCKS IN DWELLING UNIT DOORS

A. The owner of a dwelling shall provide a key lock in the entrance door to each dwelling unit and at least one key. In a Class A multiple dwelling such door shall be equipped with a heavy duty latch set and a heavy duty dead bolt operable by key from the outside and a thumb-turn from the inside.

B. Each dwelling unit entrance door in a class a multiple dwelling shall also be equipped with a chain door guard so as to permit partial opening of the door.

15. D26-21.01 MAIL SERVICE

A. The owner of a multiple dwelling shall either
(1) Arrange for mail to be delivered to himself, his agents, or employees for prompt distribution to the occupants; or
(2) Provide and maintain approved mail receptacles and directories of persons living in the dwelling as provided by federal law.

16. D26-21.03 FLOOR SIGNS

A. the owner of a multiple dwelling more than two stories in height shall post and maintain a sign of sufficient size to be readily seen, which states that number of the floor, such signs shall be located in the public hall near the stairs and elevator, and within any stair enclosure.

17. STREET NUMBERS

A. The owner of a multiple dwelling post and maintain street numbers on the dwelling, which are plainly visible from the sidewalk in front of the dwelling, in accordance with section 82(3) -1.0 of the administration code and the rules and regulations issued by the Borough of Presidents there under.

18. D26-22.03 OBLIGATIONS OF OWNER

A. The owner of a multiple dwelling shall provide adequate janitorial services.

B. In a multiple dwelling of nine or more dwelling units, the owner shall either:
(1) Perform the janitorial services himself, if he is a resident owner; or
(2) Provide a janitor; or
(3) Provide for janitorial services to be performed on a 24-hour-a-day basis in a manner approved by the department.

C. The owner of a multiple dwelling or his managing agent in control shall post and maintain in such dwelling a legible sign, conspicuously displayed, containing the janitor's name, address (including apartment number and telephone number). A new identification sign shall be posted and maintained within five days following a change of janitor.

MULTIPLE DWELLING COMPLIANCE

SECT	TITLE	COMPLIANCE
26	HEIGHT, BULK, OPEN SPACE	COMPLIES WITH GPP/BBPDC
28	TWO OR MORE BUILDINGS ON SAME LOT	COMPLIES
29	PAINTING OF COURTS AND SHAFTS	COMPLIES
30	LIGHTING AND VENTILATION OF ROOMS	COMPLIES
31	SIZE OF ROOMS-SUBDIVISION 6	COMPLIES
32	ALCOVES	COMPLIES
33	COOKING SPACES	COMPLIES: SEE MECH DRAWINGS
34	ROOMS IN BASEMENTS AND CELLARS	INAPPLICABLE
35	ENTRANCE DOORS AND LIGHTS	COMPLIES
36	WINDOWS AND SKYLIGHTS FOR PUBLIC HALLS AND STAIRS	COMPLIES
37	ARTIFICIAL HALL LIGHTING	COMPLIES
50	ENTRANCE HALLS	COMPLIES
50A	ENTRANCES: DOORS, LOCKS AND INTERCOM SYSTEMS	COMPLIES
50C	RIGHTS OF TENANTS TO OPERATE A LOBBY ATTENDANT	COMPLIES
51	SHAFTS, ELEVATORS AND DUMBWAITERS	COMPLIES
51A	PEEPHOLES	COMPLIES
51B	MIRRORS IN CONNECTION WITH SELF-SERVICE ELEVATORS	COMPLIES
51C	RIGHTS OF TENANTS TO INSTALL LOCKS IN ENTRANCE DOORS	COMPLIES
52	STAIRS	COMPLIES
53	FIRE ESCAPES	INAPPLICABLE
54	CELLAR ENTRANCE	COMPLIES
55	WAINSCOTING	COMPLIES
56	FRAME BUILDINGS AND EXTENSIONS	COMPLIES
57	BELLS; MAIL RECEPTACLES	COMPLIES
58	INCOMBUSTIBLE MATERIALS	COMPLIES
59	BAKERIES AND FAT BOILING	COMPLIES
60	MOTOR VEHICLE STORAGE	COMPLIES
61	BUSINESS USES	COMPLIES
62	PARAPETS, GUARD RAILINGS AND WIRES-SUBDIVISION 2	COMPLIES
63	SUB-CURB USES	COMPLIES
64	LIGHTING; GAS METERS	COMPLIES
65	BOILER ROOMS	COMPLIES
66	LODGING HOUSES	INAPPLICABLE
67	HOTELS AND CERTAIN OTHER CLASS A AND B DWELLINGS	COMPLIES
75	WATER SUPPLY	COMPLIES
76	WATER-CLOSET AND BATH ACCOMMODATIONS	COMPLIES
77	PLUMBING AND DRAINAGE	COMPLIES
78	REPAIRS	COMPLIES
79	HEATING	COMPLIES
80	CLEANLINESS	COMPLIES
81	RECEPTACLES FOR WASTE MATTER	COMPLIES
82	PRIVACY	COMPLIES
83	JANITOR OR HOUSEKEEPER	COMPLIES
84	CONSTRUCTION STANDARDS FOR THE CONTROL OF NOISE	COMPLIES

MULTIPLE DWELLING LAW NOTES:

1. SOUNDPROOFING BETWEEN APARTMENTS SHALL COMPLY WITH SECTION 84 OF THE MDL.
2. PUBLIC HALL PARTITIONS SHALL BE FIRE STOPPED AS PER SECTIONS 152 AND 234 OF THE MDL.
3. PARTITIONS AND CEILINGS ENCLOSING KITCHENETTES SHALL BE FIRE RETARDED WITH 5/8" FC-60 GYPSUM WALL BOARD.
4. ALL COMBUSTIBLE MATERIALS WITHIN 1'-0" OF GAS RANGES SHALL BE FIRE RETARDED WITH 5/8" FC-60 GYPSUM WALL BOARD.
5. GAS RANGES SHALL BE AGA APPROVED AND/OR BSA APPROVED AS PER SECTION 33 OF THE MDL.
6. CLEARANCES ABOVE GAS RANGES SHALL BE A MINIMUM OF 2'0".
7. PREMISES SHALL COMPLY WITH MDL SECTION 64 FOR LIGHTING, GAS METERS AND APPLIANCES.
8. HOUSE NUMBERS SHALL BE PROPERLY DISPLAYED AS PER SECTION 886 OF THE NEW YORK CITY CHARTER.
9. PROVIDE GOVERNMENT APPROVED TYPE MAILBOXES AS INDICATED ON DRAWINGS AND AS PER SECTION 57 OF THE MDL.
10. PROVIDE PEEP HOLES (DOOR VIEWERS) AT EACH APARTMENT ENTRANCE DOOR AS PER SECTION 51 OF THE MDL.
11. PROVIDE FRONT, COURT, AND REAR YARD LIGHTING AS PER SECTION 26, SUBCHAPTER 7 AND SECTION 35 OF THE MDL.
12. PROVIDE HALL LIGHTS AS PER SECTION 37 AND 21 OF THE MDL.
13. SUPERINTENDENT'S APARTMENT SHALL COMPLY WITH SECTIONS 34 AND 216 OF THE MDL.
14. ALL STAIRS SHALL COMPLY WITH SECTION 52 OF THE MDL.
15. PROVIDE SKYLIGHTS IN STAIR BULKHEADS AS PER SECTION 217 OF THE MDL.
16. ALL EXTERIOR STEPS TO COMPLY WITH SECTION 52 OF THE MDL.

DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED

OWNER ATHENA HOUSING ASSOCIATES LLC.

STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.

MEP ENGINEER EP ENGINEERING

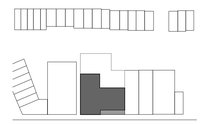
CODE CONSULTING DESIGN 2147

ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES

LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 50% DD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

MULTIPLE DWELLING NOTES

REGISTERED ARCHITECT JONATHAN JOVA MARVEL No. 021401 STATE OF NEW YORK

DRAWING #: G-004 00

7 of 92

DOB ##### ZONE

Unit Height Distribution Chart A

Floor #	Inclusionary Housing Apartment Numbers														Total # of IH Units/Floor
9	9A	9B	9C			9F		9H							5
8	8A	8B	8C	8D	8E		8G	8H							7
7	7A	7B	7C	7D	7E	7F	7G	7H							8
6	6A	6B	6C	6D	6E	6F	6G	6H							8
5	5A	5B	5C	5D		5F	5G	5H	5J						8
4	4A	4B	4C	4D	4E		4G	4H	4J						8
3	3A	3B	3C	3D	3E	3F	3G	3H	3J						9
2	2A	2B	2C	2D	2E	2F	2G	2H	2J						9
1	1A	1B	1C	1D				1H	1J						6
Form 07-16-2012															**68** Total DU

Horizontal Unit Distribution Chart B

Construction Floor #	Marketing Floor #	Total # of Units Per Floor	IH Units Per Floor	Staff Units Per Floor	Non-IH Units Per Floor	IH %-age
9	9	8	5	0	0	62.50%
8	8	8	7	0	0	87.50%
7	7	8	8	0	0	100.00%
6	6	9	8	0	0	88.89%
5	5	9	8	0	0	88.89%
4	4	9	8	0	0	88.89%
3	3	9	9	0	0	100.00%
2	2	9	9	0	0	100.00%
1	1	9	6	1	0	66.67%
		78	68	1	0	

IH = 60% of 80% AMI Units
Form 07-16-2012

Form 07-16-2012

Unit Bedroom Mix Chart C

IH Unit Types	No. of Units	% Breakdown	Non-IH Unit Types*	No. of Units	% Breakdown	Super/Staff Units	TOTAL No. of Units
Studio	33	48.53%	Studio	4	44.44%	0	37
1-bd	21	30.88%	1-bd	3	33.33%	0	24
2-bd	12	17.65%	2-bd	1	11.11%	1	14
3-bd	2	2.94%	3-bd	1	11.11%	0	3
Total	**68**	**100.00%**	Total	**9**	**100.00%**	**1**	**78**

*Excludes Super/Staff Units
"IH" = 60% and 80% AMI UNITS
"Non-IH" = 100% and 165% AMI UNITS

FOR COMPLIANCE WITH ZR 23-96(c) THE BEDROOM MIX IS AT LEAST PROPORTIONAL TO THE BEDROOM MIX OF THE DWELLING UNITS IN THE GENERATING SITE, OTHER THAN THE SUPER'S UNIT PER ZR 23-96(c)(1)(i)
Form 07-16-2012

Unit Size Chart D

100% + 165% AMI

Unit Summary		Construction Floor #	Marketing Floor #	Apt #	# Bdrms	Net Sq. Ft.
# Bdrms	Units					
0 Bdrm	4	1	1	1E	1	579
1 Bdrm	3	1	1	1F	0	425
2 Bdrm	1	4	4	4F	0	425
3 Bdrm	1	5	5	5E	1	579
Total	9	6	6	6J	2	939
		8	8	8F	0	442
		9	9	9D	1	582
		9	9	9E	3	988
		9	9	9G	0	415
						5374

Super / Resident Manager Unit(s)

Construction Floor #	Marketing Floor #	Apt #	# Bdrms	Net Sq. Ft.
1	1	1G	2	787

60% + 80% AMI "IH" UNITS

Unit Summary		Construction Floor #	Marketing Floor #	Apt #	# Bdrms	Net Sq. Ft.
# Bdrms	Units					
0 Bdrm	33	1	1	1A	1	600
1 Bdrm	21	1	1	1B	0	422
2 Bdrm	12	1	1	1C	0	409
3 Bdrm	2	1	1	1D	1	582
Total	68	1	1	1H	0	401
		1	1	1J	0	402
		2	2	2A	1	600
		2	2	2B	0	422
		2	2	2C	0	409
		2	2	2D	1	582
		2	2	2E	1	579
		2	2	2F	0	425
		2	2	2G	2	776
		2	2	2H	0	402
		2	2	2J	2	847
		3	3	3A	1	600
		3	3	3B	0	422
		3	3	3C	0	409
		3	3	3D	1	582
		3	3	3E	1	579
		3	3	3F	0	425
		3	3	3G	2	776
		3	3	3H	0	402
		3	3	3J	2	847
		4	4	4A	1	600
		4	4	4B	0	422
		4	4	4C	0	409
		4	4	4D	1	581
		4	4	4E	1	579
		4	4	4G	2	815
		4	4	4H	0	415
		4	4	4J	2	939
		5	5	5A	1	600
		5	5	5B	0	422
		5	5	5C	0	409
		5	5	5D	1	582
		5	5	5F	0	425
		5	5	5G	2	815
		5	5	5H	0	415
		5	5	5J	2	939
		6	6	6A	1	600
		6	6	6B	0	422
		6	6	6C	0	409
		6	6	6D	1	581
		6	6	6E	1	579
		6	6	6F	0	425
		6	6	6G	2	815
		6	6	6H	0	415
		7	7	7A	1	600
		7	7	7B	0	422
		7	7	7C	0	409
		7	7	7D	1	582
		7	7	7E	3	988
		7	7	7F	0	442
		7	7	7G	0	415
		7	7	7H	2	939
		8	8	8A	1	600
		8	8	8B	0	422
		8	8	8C	0	409
		8	8	8D	1	582
		8	8	8E	3	988
		8	8	8G	0	415
		8	8	8H	2	939
		9	9	9A	1	600
		9	9	9B	0	422
		9	9	9C	0	409
		9	9	9F	0	442
		9	9	9H	2	939
						38477

Form 07-16-2012

UNIT MIX

ATLANTIC					
FLOOR	STUDIO	1 BED	2 BED	3 BED	TOTAL
9	4	2	1	1	8
8	4	2	1	1	8
7	4	2	1	1	8
6	4	3	2	0	9
5	4	3	2	0	9
4	4	3	2	0	9
3	4	3	2	0	9
2	4	3	2	0	9
1	5	3	1	0	9
C	-	-	-	-	0
TOTAL	37	24	14	3	78
	47%	31%	18%	4%	100%
REQ'D @ ATL	30	18	11	2	
REMAINDER	7	6	3	1	

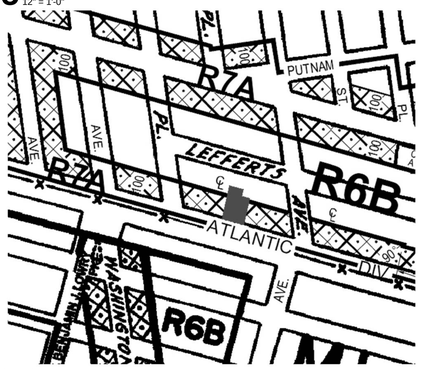
78 DU
81 MAX DU
4 REMAINDER

MASTER DEDUCTIONS

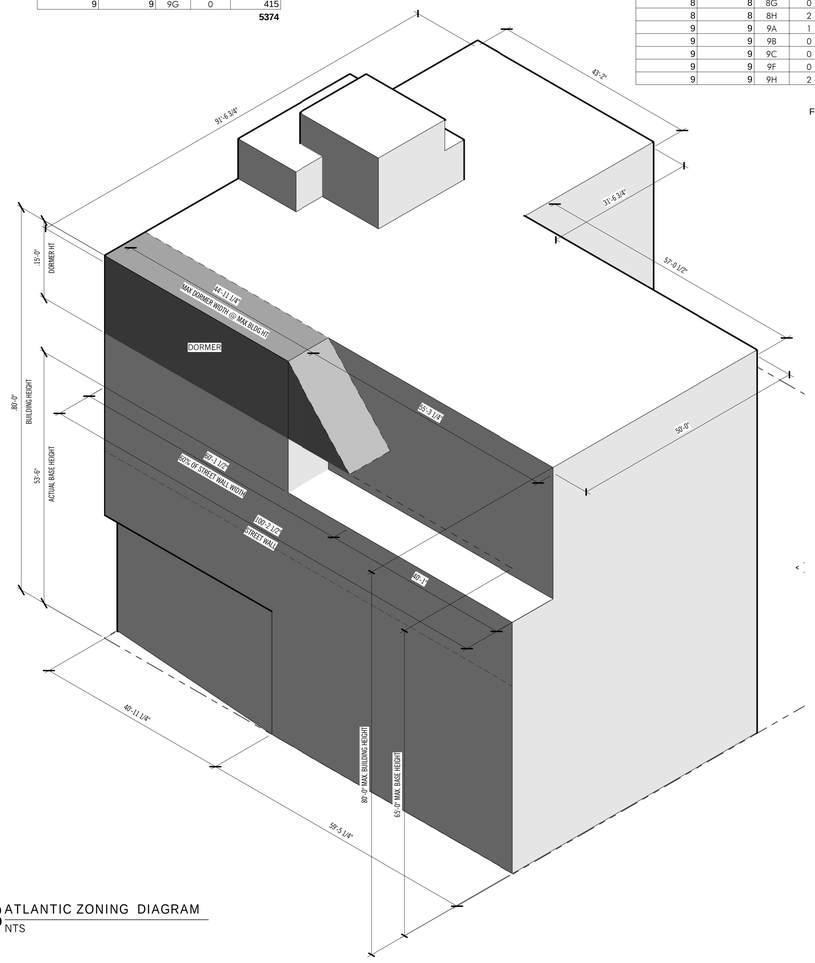
Name	Area
LEVEL 1	
Corridor Deductions	937.19 SF
Mechanical Deductions	200.08 SF
Trash Deductions	22.13 SF
Wall Deductions	265.48 SF
	1424.88 SF
LEVEL 2-3	
Corridor Deductions	676.30 SF
Mechanical Deductions	186.36 SF
Trash Deductions	22.13 SF
Wall Deductions	265.80 SF
	1150.58 SF
LEVEL 4-6	
Corridor Deductions	676.30 SF
Mechanical Deductions	186.48 SF
Trash Deductions	22.13 SF
Wall Deductions	237.43 SF
	1122.33 SF
LEVEL 7-9	
Corridor Deductions	593.69 SF
Mechanical Deductions	171.86 SF
Trash Deductions	22.13 SF
Wall Deductions	237.39 SF
	1025.07 SF
ROOF	
Stair Deductions	119.60 SF
Wall Deductions	71.56 SF
	191.16 SF

Level	Gross (SF)	Deductions (SF)	Proposed Zoning FAR (SF)
Cellar	6894.19	0.00	0.00
1	7205.00	1424.88	5780.12
2	7221.14	1150.58	6070.56
3	7221.14	1150.58	6070.56
4	7374.84	1122.33	6252.51
5	7374.84	1122.33	6252.51
6	7374.84	1122.33	6252.51
7	6818.14	1025.68	5792.46
8	6818.14	1025.68	5792.46
9	6818.14	1025.68	5792.46
TOTAL	**71120.41**	**10170.07**	**54056.15**

5 Proposed Floor Area
12" = 1'-0"



4 ZONING MAP
NTS



3 ATLANTIC ZONING DIAGRAM
NTS

ZR 28-00	**Quality Housing**				
ZR 26-40	**Street Tree Planting**				
	Trees required: 1 Tree per 25' of street frontage				
	100'/25'= 4 Trees Required				**COMPLIES - See Site Plan**
	Trees proposed: 4 trees				
ZR 28-21	**Size of Dwelling Unit**				
	Minimum DU Size Required: 400 SF				
	Minimum DU Size Provided: 401 SF				**COMPLIES - See Unit Size Chart D on Z-100**
ZR 28-22	**Windows**				
	All Residential Windows to be Double-glazed				**COMPLIES**
ZR 28-23	**Refuse Storage and Disposal**				
	Refuse Disposal room to be provided on each story that has entrances to dwelling units, Minimun size required: 12 SF, Minimum dimension required 3'-0", provided: 39 sf at all floors				**COMPLIES - see plans**
	Refuse Storage Room to be provided in an enclosed area within the zoning lot @ 2.9 cubic feet per dwelling unit. 2.9 cubic feet x 77 DU= 223.3 cubic feet required				
	386 sq ft x 10 ft = 3860 cubic feet provided				
ZR 28-25(a)	**Daylight in Corridors**				
	50% of the SF of a corridor may be excluded from the floor area if a window of at least 20 SF is provided and visible from the vertical circulation core				**APPLIES**
ZR 28-31	**Recreation Space Required**				
	3.3% of the Total Residential floor area= 54,053 SF x 3.3%= 1,784SF				
	Recreation Space provided = 2,346 SF (Outdoors)				
					COMPLIES
ZR 28-32	**Standards for Recreation Space**				
	A) All recreation space shall be accessible to the residents of the building				**COMPLIES**
	B) Minimum dimension: 15 feet				
	Minimum size outdoor: 225 SF				
	C) Outdoor recreation space shall be open to the sky except for building projections not to exceed seven feet in depth				
ZR 28-41	**Density per Corridor**				
	R6, R7- if 11 units or less are served by a corridor per story, 50% of the square feet of the corridor serving such dwelling unit may be excluded from the floor area				**APPLIES**

2 Quality Housing Calculations
12" = 1'-0"

	ZONING ANALYSIS	=			
	Address	=	909 Atlantic Ave		
	Block	=	2018		
	Lot	=	62, 63, 64		
	Zone	=	R6B, R7A/C2-4, R7A/C2-4 Inclusionary Housing Designated Area		
	Zoning map		16C		
	Community board		Brooklyn CB-2		
	Lot Area	=	1,330/ 1,330/ 10,054 SF		
ZR-77-02	**Zoning Lot did not Exist Prior to Distrcit Boundary**	=	12,714 sf. (1,330 R6B / 1,330 R7A/C2-4 / 10,054 R7A/C2-4 Inclusionary Housing Designated Area)		
ZR-32-10	**Uses Permitted**				
	R6B, R7A/C2-4, R7A/C2-4/IH	=	UG 1-9 & 14		
	Uses Proposed				
	R6B, R7A/C2-4, R7A/C2-4/IH	=	UG 2 Residential		
ZR 23-145	**FAR Permitted**				
ZR 23-952	**Note: development will participate in Inclusionary Housing designated areas program**				43,786 sf. of low income floor area will be provided in this building as the generating site for 1 Clinton Street.
	Residential R6B/C2-4	=	2.00 FAR		
	Residential R7A/C2-4		4.00 FAR		
	Residential R7A/C2-4/IH	=	4.60 FAR		Affordable Housing provided
					ZR 77-22(a); Floor Area Ration; For Auality Housing buildings in R6 and R7 districts, the residential floor area ratio of the portion of the zoning lot fronting on and winthin 100 ft. of a wide street may exceed the maximum permitted residential floor area for the portion of the zoning lot by up to 20 percent, provided that the maximum residential floor area ratio for the zoning lot does not exceed the adjusted maximum floor area ratio applicable to such zoning lot. Adjusted maximum residential FAR = 4.27 [(4.60 x 79.09% = 3.64) + (4.00 x 10.46% = 0.42) + (2.00 x 10.46% = 0.21)]
					20% Increase: 4.60 x 120% = 5.52 FAR x 10,050 sf. = 55,476 sf.
					4.27 FAR x 12,714 sf. = 54,288 sf.
	Max. Zoning Floor Area (ZFA) Permitted				
	Within 100' of Atlantic Ave 4.27 x 12,714 sf.	=	54,288 ZFA		
	Floor Area Proposed (See Floor area schedules this sheet)				
	Total ZFA	=	**54056.15**	**SF**	
					Per ZR 23-952, for each 1 sf. of low income floor area provided, the floor area on the zoning lot may be increased by 1.25 sf., up to a maximum of 4.6 FAR. The maximum R7A/C2-4/IH residential floor area is 46,248 sf (4.6 x 10,054 sf.). 20% of the maximum residential floor area must be affordable to generate the maximum FAR of 4.6, so 9,250 sf. of the R7A/C2-4/IH portion must be low income floor area to generate the 4.6 FAR for this portion of the zoning lot.
	Total ZFA Provided	=	54,056.15		
	Affordable ZFA to generate ZFA 911-917 at Atlantic	=	9,250		
	Affordable ZFA to generate ZFA at 1 Clinton	=	35,334		
ZR 23-145	**Lot Coverage**				
	Maximum Lot Coverage for Quality Housing Building				Per ZR 23-145, the maximum lot coverage in the R7A/C2-4/IH and R7A/C2-4 portions is 65%. The maximum lot coverage in the R6B portion of the lot is 60%.
	R7A/C2-4 11,384 x 65%	=	7,400 permitted / 7,317 (?) proposed / **Complies**		
			R6B		
23-22	**Density**				
	Residential Floor Area Allowed		54,288 SF		
	Gross Area per Dwelling Unit		680 SF/DU		
	Permitted DU (73245.60/680)		80 UNITS		
	Proposed DU's	=	78 UNITS		
ZR 23-47 ZR 34-231 ZR 34-232	**Yard Regulations**	=			
	Front yard	=	Not required		
	Side yard	=	Not required but if provided must be 8'-0"		
	Rear yard	=	30' required complies		See plot plan - this sheet
ZR 23-633	**Height & Setback**				
	Note: Development will comply with Quality Housing				
	Min Base Height	=	40 ft.	Complies	See plans
	Max Base Height	=	65 ft.	Complies	See plans
	Max Building Height	=	80 ft.	Complies	See plans
	Min Req Setback (Wide street)	=	10 ft.	Complies	See plans
ZR 23-633(a)(1)	Add 23-633(a)(1): Street wall may be located no closer to the street line than the closest street wall of an existing building within 150 ft. of the building in the same block				
ZR 23-631(c)	**Permitted Obstruction in certain districts (Dormer)**				
	Dormer allowed within required setback: aggregate width <60% of length of street wall-				
	1% per foot of height above maximum base height				
	Dormer- Atlantic Avenue- 8th Floor				
	Street wall width: 100'-2 1/2" = 100.19				
	Actual Dormer Height: 15.00"= 15.00'				
	Actual Dormer Width: 44'-11 1/4" = 44.96'				
	Calculations				
	Allowable dormer width @ Max Ht= 60% of street wall				
	.60 x 100'= 60'-0"= 60.00'				
	Dormer width shall decrease by 1% of the street wall width				
	of the highest story entirely below the max base height.				
	Dormer Reduction per vertical foot		1% of 100.19'= 1'		
	Dormer Height above Max Base Ht		80.00-65.00= 15.00'		
	Dormer Width Decrease Required		15.00'x1'= 15.00'		
	Max width of Dormer @ Max Dormer Height		60.00-15'= 45.00'		
	6th Floor Dormer is in Compliance		44.96'<45.00'		
ZR 123-62	**Permitted Obstruction to penetrate max height limit**				
ZR 23-62(g)	Elevator or stair bulkheads (Including shafts and vestibules not larger than 60 SF				
	in area providing access to a roof), roof tanks and accessory mechanical equipment				
	(including enclosures), other then solar or wind energy systems, provided that:				
	1) Such obstructions shall be located not less than 10 feet from the street wall of a building				
	Distance of bulkhead from Streetwall is 41'-11" > 10', Complies				
	2) All mechanical equipment shall be screened on all sides				
	3) The product of the aggregate width of the street wall of obstructions times average				
	height shall not exceed an area equal to 8'X width of street wall of building facing such frontage				
	10' (wd) x 8'-7 1/4" (ht) + x 19'-3 1/4" (wd) x 16'-7" (ht) =				
	86.04 + 319.57 = 405.61 SF				
	100' wide street wall x 8= 800 SF				
	405.61< 800, Complies				
	Elevator Vestibule (Interior Floor Area)= 0 S.F., **Complies**				
ZR 23-62(j)	Parapet walls, not more than four feet high				
ZR 23-80	**Court Regulations**				
ZR 23-84	Outer Court Regulations	=	Complies see drawings		
ZR 23-85	Inner Court Regulations	=	Complies see drawings		
ZR 23-852	Inner court recesses	=	None		
ZR 25-23	**Required accessory off-street parking spaces for residences**				
ZR 36-23	Residential (100% Affordable)	=	78 TOTAL DU		
ZR 25-25 (e)	Public Housing Developments or #Dwelling Units# for Low Income Tenants (R7A = 15%)				
	Low Income Units - 69 DUs x (15%)	=	10 spaces		
	Non Low Income Units - 9 DUs x (50%)	=	5 spaces		
	Total required residential spaces				
ZR 25-261	Parking Requirement waived < 15 or fewer spaces		WAIVED		
ZR 25-80	**Bike Storage**	=			
	UG2 RES program proposed DU's	=	78 DU		
	UG2 RES required for 50% of DUs	=	39 spaces		
	Total spaces required	=	39		Complies see Z102
ZR 25-85	Required spaces @ 9sf/bike (39* 9sf)	=	351 sf		Complies see Z101
ZR 25-85	Floor area exemption	=	N/A Bike parking located in cellar		

1 Zoning Analysis
12" = 1'-0"

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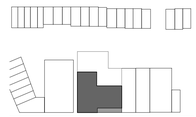
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

ZONING

REGISTERED ARCHITECT
JONATHAN JOSEPH MARVEL
No. 026260
STATE OF NEW YORK

DRAWING #: Z-100 00

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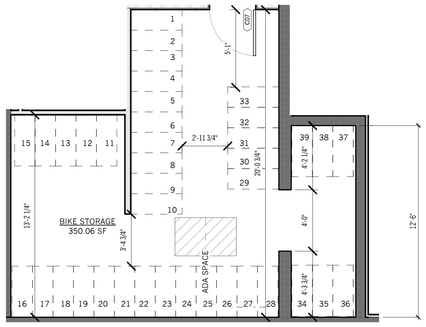
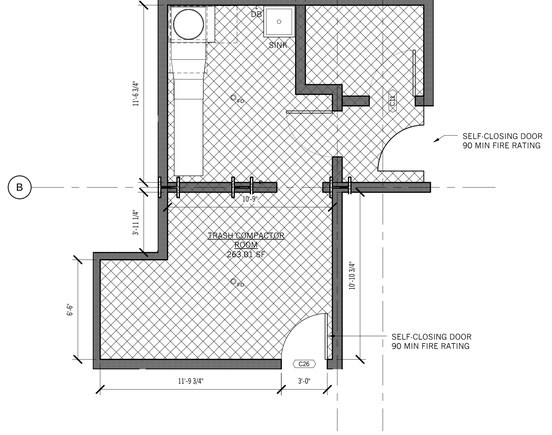


BICYCLE COMPLIANCE PLAN
Refer to Z-100 for more information.
See A-155 for specs.

BICYCLE PARKING
351 SF
39 TOTAL BIKES

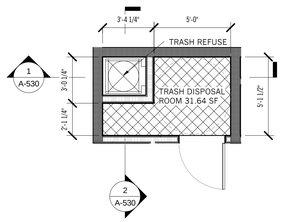
5 BIKE STORAGE
1/4" = 1'-0"

2 NORTH SOUTH SECTION - ZONING
3/32" = 1'-0"

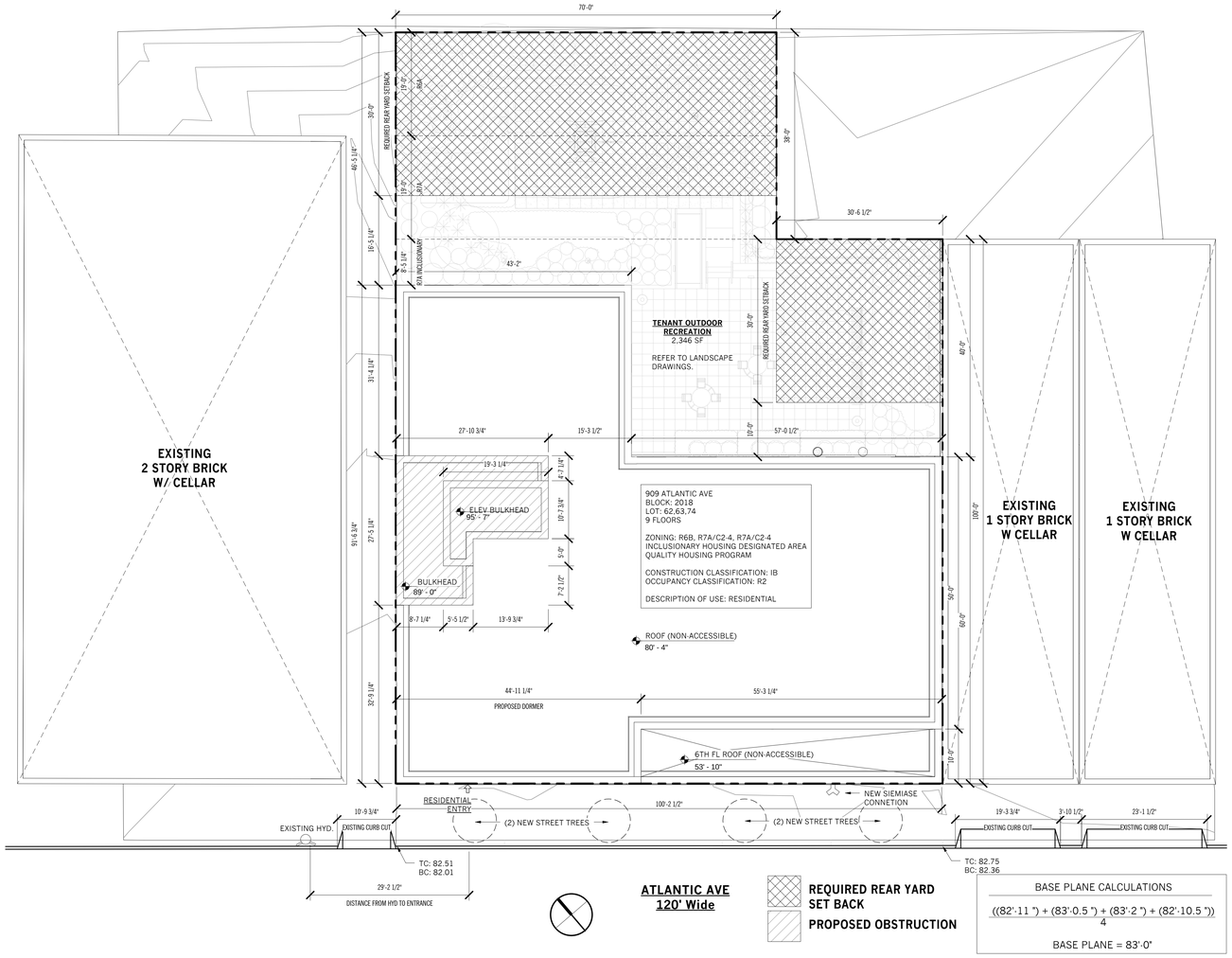


TOTAL TRASH COMPACTOR ROOM AREA:
REQ'D: 2.9 ft cubed x 78 DU = 226.2 ft cubed
365.25 ft sq x 10' = 3,652.5 ft cubed provided

4 COMPACTOR ROOM
1/4" = 1'-0"



3 TRASH CHUTE ROOM
1/4" = 1'-0"



1 SITE PLAN
3/32" = 1'-0"

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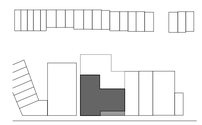

KEY PLAN:NTS

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ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

ZONING

REGISTERED ARCHITECT
JONATHAN JOHN MARVEL
No. 031450
STATE OF NEW YORK

DRAWING #: Z-101.00

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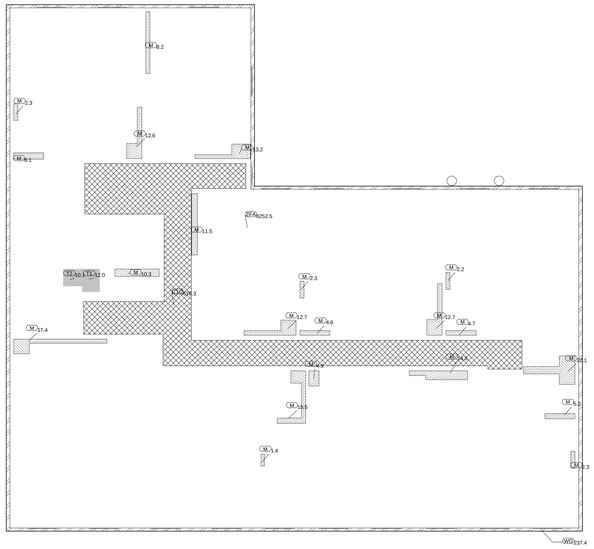


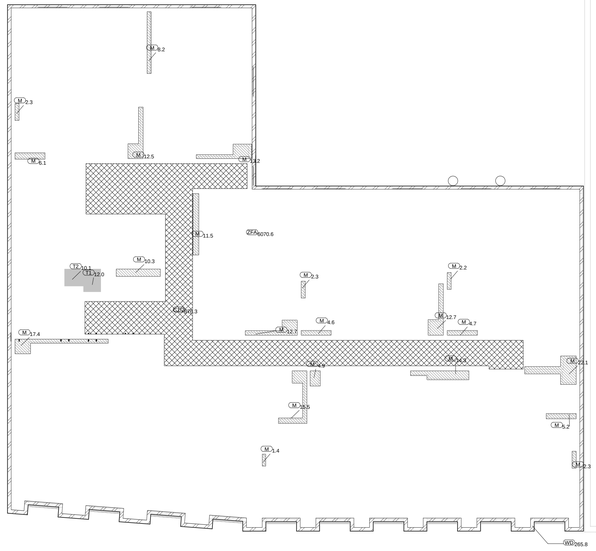
3 4TH-6TH FLOOR DEDUCTIONS
3/32" = 1'-0"

Zoning Legend

C Corridor Deductions
M Mechanical Deductions
T Trash Deductions
WD Wall Deductions
ZFA

ZONING TABLE 1.0 - FLOOR AREA DEDUCTION...		
Name	ID	Area
Trash Deductions: 2		22.13 SF
Wall Deductions	WD	265.80 SF
Wall Deductions: 1		265.80 SF
		1150.58 SF
4TH FLOOR		
Corridor Deductions	C1/2	676.30 SF
Corridor Deductions: 1		676.30 SF
Mechanical Deductions	M	10.30 SF
Mechanical Deductions	M	2.28 SF
Mechanical Deductions	M	12.63 SF
Mechanical Deductions	M	12.69 SF
Mechanical Deductions	M	4.87 SF
Mechanical Deductions	M	15.50 SF
Mechanical Deductions	M	1.37 SF
Mechanical Deductions	M	14.28 SF
Mechanical Deductions	M	12.75 SF
Mechanical Deductions	M	2.20 SF
Mechanical Deductions	M	22.14 SF
Mechanical Deductions	M	5.15 SF

ZONING TABLE 1.0 - FLOOR AREA DEDUCTION...		
Name	ID	Area
Mechanical Deductions	M	4.67 SF
Mechanical Deductions	M	4.62 SF
Mechanical Deductions	M	2.28 SF
Mechanical Deductions	M	17.43 SF
Mechanical Deductions	M	8.21 SF
Mechanical Deductions	M	11.50 SF
Mechanical Deductions	M	2.28 SF
Mechanical Deductions	M	13.18 SF
Mechanical Deductions	M	6.14 SF
Mechanical Deductions: 21		186.48 SF
Trash Deductions	T2	10.13 SF
Trash Deductions	T1	12.00 SF
Trash Deductions: 2		22.13 SF
Wall Deductions	WD	237.43 SF
Wall Deductions: 1		237.43 SF
		1122.33 SF



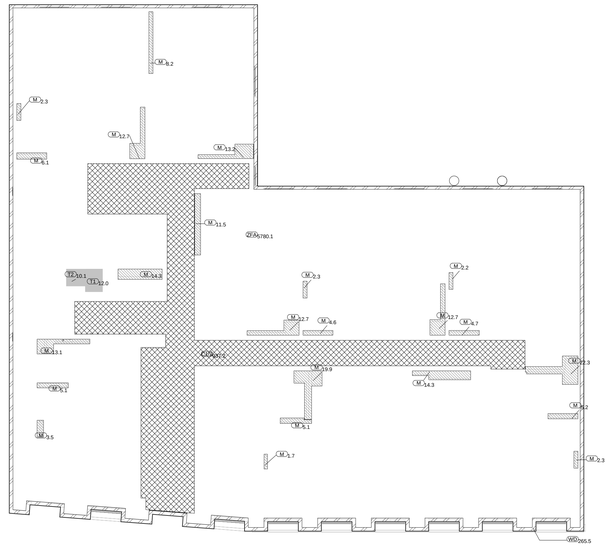
2 2ND-3RD FLOOR DEDUCTIONS
3/32" = 1'-0"

Zoning Legend

C Corridor Deductions
M Mechanical Deductions
T Trash Deductions
WD Wall Deductions
ZFA

ZONING TABLE 1.0 - FLOOR AREA DEDUCTION...		
Name	ID	Area
Trash Deductions: 2		22.13 SF
Wall Deductions	WD	265.48 SF
Wall Deductions: 1		265.48 SF
		1424.88 SF
2ND FLOOR		
Corridor Deductions	C1/2	676.30 SF
Corridor Deductions: 1		676.30 SF
Mechanical Deductions	M	10.30 SF
Mechanical Deductions	M	2.28 SF
Mechanical Deductions	M	8.21 SF
Mechanical Deductions	M	12.69 SF
Mechanical Deductions	M	4.87 SF
Mechanical Deductions	M	15.50 SF
Mechanical Deductions	M	1.37 SF
Mechanical Deductions	M	14.28 SF
Mechanical Deductions	M	12.75 SF
Mechanical Deductions	M	2.20 SF
Mechanical Deductions	M	22.14 SF
Mechanical Deductions	M	5.15 SF
Mechanical Deductions	M	4.67 SF

ZONING TABLE 1.0 - FLOOR AREA DEDUCTION...		
Name	ID	Area
Mechanical Deductions	M	4.62 SF
Mechanical Deductions	M	2.28 SF
Mechanical Deductions	M	17.43 SF
Mechanical Deductions	M	12.51 SF
Mechanical Deductions	M	11.50 SF
Mechanical Deductions	M	2.28 SF
Mechanical Deductions	M	13.18 SF
Mechanical Deductions	M	6.14 SF
Mechanical Deductions: 21		186.36 SF
Trash Deductions	T2	10.13 SF
Trash Deductions	T1	12.00 SF



1 GROUND FLOOR DEDUCTIONS
3/32" = 1'-0"

Zoning Legend

C Corridor Deductions
M Mechanical Deductions
T Trash Deductions
WD Wall Deductions
ZFA

*ZFA INCLUDE ADJACENT PORTION OF PARTY WALL WITHIN PROPERTY LINE

ZONING TABLE 1.0 - FLOOR AREA DEDUCTION...		
Name	ID	Area
Not Placed		
Mechanical Deductions	M	Not Placed
Mechanical Deductions: 1		0.00 SF
		0.00 SF
GROUND FLOOR		
Corridor Deductions	C1/2	937.19 SF
Corridor Deductions: 1		937.19 SF
Mechanical Deductions	M	14.32 SF
Mechanical Deductions	M	2.28 SF
Mechanical Deductions	M	12.70 SF
Mechanical Deductions	M	8.21 SF
Mechanical Deductions	M	12.69 SF
Mechanical Deductions	M	19.93 SF
Mechanical Deductions	M	1.70 SF
Mechanical Deductions	M	14.28 SF
Mechanical Deductions	M	12.75 SF
Mechanical Deductions	M	2.20 SF
Mechanical Deductions	M	22.34 SF
Mechanical Deductions	M	2.28 SF
Mechanical Deductions	M	5.15 SF
Mechanical Deductions	M	4.67 SF
Mechanical Deductions	M	4.62 SF

ZONING TABLE 1.0 - FLOOR AREA DEDUCTION...		
Name	ID	Area
Mechanical Deductions	M	2.28 SF
Mechanical Deductions	M	5.13 SF
Mechanical Deductions	M	11.50 SF
Mechanical Deductions	M	13.10 SF
Mechanical Deductions	M	5.08 SF
Mechanical Deductions	M	3.53 SF
Mechanical Deductions	M	13.18 SF
Mechanical Deductions	M	6.14 SF
Mechanical Deductions: 23		200.08 SF
Trash Deductions	T2	10.13 SF
Trash Deductions	T1	12.00 SF

FLOOR AREA DEDUCTION NOTES

1. CORRIDOR DEDUCTIONS AS PER ZR 28-41, DENSITY PER CORRIDOR, WHERE 50% OF THE SF OF THE CORRIDOR IS DEDUCTED FOR CORRIDORS SERVING LESS THAN 8 DWELLING UNITS ON THE STORY IN DISTRICT R7A. OTHER 50% OF THE SF OF THE CORRIDOR IS DEDUCTED AS PER ZR 28-25 FOR PROVIDING DAYLIGHT IN THE CORRIDOR WITH A WINDOW ADJACENT TO THE ELEVATOR.

2. MECHANICAL DEDUCTIONS AS PER ZR 12-10 "FLOOR AREA" DEFINITION (8). DEDUCTED ARE FLOOR SPACES OCCUPIED BY HEATING, VENTILATION, AND AIR CONDITIONING EQUIPMENT, DOMESTIC WATER EQUIPMENT, EMERGENCY GENERATOR RELATED EQUIPMENT, FIRE SPRINKLER SYSTEM, MECHANICAL SHAFTS INCLUDING ENCLOSURE, PLUMBING AND GAS PIPE RISERS AND CHASES INCLUDING ENCLOSURE, ELECTRICAL SERVICE PANELS, CONDUITS, RISERS, CHASES AND RELATED EQUIPMENT.

3. REFUSE DEDUCTIONS AS PER ZR 28-23. DEDUCTED IS TWELVE SQUARE FEET OF THE REFUSE STORAGE ROOMS PROVIDED ON EACH STORY WHICH HAS ENTRANCES TO DWELLING UNITS

4. WALL DEDUCTIONS AS PER ZR 12-10 "FLOOR AREA" DEFINITION (12) FOR EXTERIOR WALL THICKNESS WHERE WALL THICKNESS WHICH EXCEEDS 8" CAN BE DEDUCTED PROVIDED THE ENVELOPE IS MORE ENERGY EFFICIENT THAN REQUIRED BY THE NYCECC.

5. INDOOR RECREATION SPACE AS PER ZR 28-32, NOT EXCEEDING 3.3% OF TOTAL RESIDENTIAL FLOOR AREA IN DISTRICT R7A, SHALL BE EXCLUDED FROM THE DEFINITION OF FLOOR AREA.

DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

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MEP ENGINEER EP ENGINEERING
CODE CONSULTING DESIGN 2147
ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES
LANDSCAPE ABEL BAINNSON BUTZ, LLP

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2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
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7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

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ATLANTIC

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ZONING

REGISTERED ARCHITECT
JONATHAN JOSE MARVEL
No. 026801
STATE OF NEW YORK

DRAWING #: Z-102 00

10 of 92

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CLIENT **HUDSON COMPANIES INCORPORATED**

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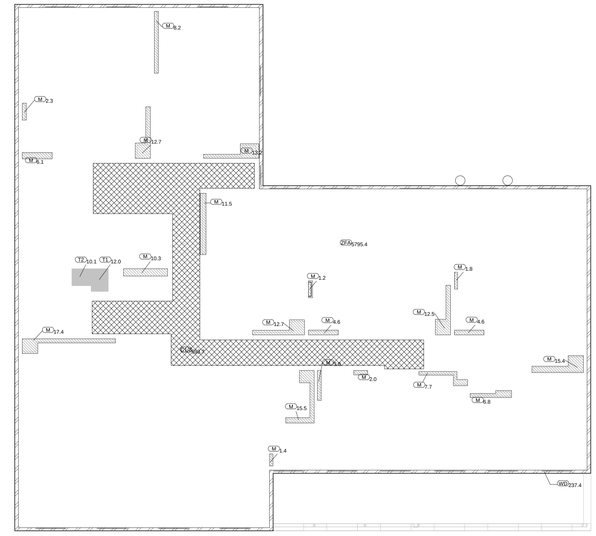
CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**



1 7TH-9TH FLOOR DEDUCTIONS
3/32" = 1'-0"

Zoning Legend

C	Corridor Deductions
M	Mechanical Deductions
T	Trash Deductions
WD	Wall Deductions
	ZFA

ZONING TABLE 2.0 - FLOOR AREA DEDUCTION...		
Name	DEDUCT IDENTITY	Area
7TH FLOOR		
Corridor Deductions	C1/2	593.69 SF
Corridor Deductions: 1		593.69 SF
Mechanical Deductions	M	10.30 SF
Mechanical Deductions	M	2.28 SF
Mechanical Deductions	M	12.70 SF
Mechanical Deductions	M	12.69 SF
Mechanical Deductions	M	3.83 SF
Mechanical Deductions	M	15.50 SF
Mechanical Deductions	M	1.40 SF
Mechanical Deductions	M	12.48 SF
Mechanical Deductions	M	1.81 SF
Mechanical Deductions	M	4.62 SF
Mechanical Deductions	M	1.24 SF
Mechanical Deductions	M	17.43 SF
Mechanical Deductions	M	15.43 SF
Mechanical Deductions	M	4.56 SF
Mechanical Deductions	M	7.71 SF
Mechanical Deductions	M	11.50 SF
Mechanical Deductions	M	8.21 SF
Mechanical Deductions	M	13.18 SF
Mechanical Deductions	M	2.00 SF
Mechanical Deductions	M	6.14 SF

ZONING TABLE 2.0 - FLOOR AREA DEDUCTION...		
Name	DEDUCT IDENTITY	Area
Mechanical Deductions	M	6.85 SF
Mechanical Deductions: 21		171.86 SF
Trash Deductions	T2	10.13 SF
Trash Deductions	T1	12.00 SF
Trash Deductions: 2		22.13 SF
Wall Deductions	WD	237.39 SF
Wall Deductions: 1		237.39 SF
TOTAL DEDUCTIONS:		1025.07 SF

FLOOR AREA DEDUCTION NOTES

1. CORRIDOR DEDUCTIONS AS PER ZR 28-41, DENSITY PER CORRIDOR, WHERE 50% OF THE SF OF THE CORRIDOR IS DEDUCTED FOR CORRIDORS SERVING LESS THAN 8 DWELLING UNITS ON THE STORY IN DISTRICT R7A. OTHER 50% OF THE SF OF THE CORRIDOR IS DEDUCTED AS PER ZR 28-25 FOR PROVIDING DAYLIGHT IN THE CORRIDOR WITH A WINDOW ADJACENT TO THE ELEVATOR.

2. MECHANICAL DEDUCTIONS AS PER ZR 12-10 "FLOOR AREA" DEFINITION (8). DEDUCTED ARE FLOOR SPACES OCCUPIED BY HEATING, VENTILATION, AND AIR CONDITIONING EQUIPMENT, DOMESTIC WATER EQUIPMENT, EMERGENCY GENERATOR RELATED EQUIPMENT, FIRE SPRINKLER SYSTEM, MECHANICAL SHAFTS INCLUDING ENCLOSURE, PLUMBING AND GAS PIPE RISERS AND CHASES INCLUDING ENCLOSURE, ELECTRICAL SERVICE PANELS, CONDUITS, RISERS, CHASES AND RELATED EQUIPMENT.

3. REFUSE DEDUCTIONS AS PER ZR 28-23. DEDUCTED IS TWELVE SQUARE FEET OF THE REFUSE STORAGE ROOMS PROVIDED ON EACH STORY WHICH HAS ENTRANCES TO DWELLING UNITS

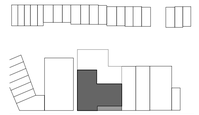
4. WALL DEDUCTIONS AS PER ZR 12-10 "FLOOR AREA" DEFINITION (12) FOR EXTERIOR WALL THICKNESS WHERE WALL THICKNESS WHICH EXCEEDS 8" CAN BE DEDUCTED PROVIDED THE ENVELOPE IS MORE ENERGY EFFICIENT THAN REQUIRED BY THE NYCECC.

5. INDOOR RECREATION SPACE AS PER ZR 28-32, NOT EXCEEDING 3.3% OF TOTAL RESIDENTIAL FLOOR AREA IN DISTRICT R7A, SHALL BE EXCLUDED FROM THE DEFINITION OF FLOOR AREA.

DOB STAMP ZONE

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

ZONING

DRAWING #: Z-103 00

11 of 92

DOB ##### ZONE

1/29/2016 4:35:47 PM

PROJECT NAME: **909 Atlantic**
ADDRESS: **909 Atlantic, Brooklyn, NY**
DATE: **01.15.2016**

Unit Height Distribution Chart A

Instructions: Please list the Inclusionary Housing Units by floor and designation. Please dedicate one column for each line of apartments.

Floor #	Inclusionary Housing Apartment Numbers														Total # of IH Units/Floor
9	9A	9B	9C			9F		9H							5
8	8A	8B	8C	8D	8E		8G	8H							7
7	7A	7B	7C	7D	7E	7F	7G	7H							8
6	6A	6B	6C	6D	6E	6F	6G	6H							8
5	5A	5B	5C	5D		5F	5G	5H	5J						8
4	4A	4B	4C	4D	4E		4G	4H	4J						8
3	3A	3B	3C	3D	3E	3F	3G	3H	3J						9
2	2A	2B	2C	2D	2E	2F	2G	2H	2J						9
1	1A	1B	1C	1D				1H	1J						6
															68

Form 07-16-2012

PROJECT NAME: **909 Atlantic**
ADDRESS: **909 Atlantic, Brooklyn, NY**
DATE: **01.15.2016**

Horizontal Unit Distribution Chart B

Construction Floor #	Marketing Floor #	Total # of Units Per Floor	IH Units Per Floor	Staff Units Per Floor	Non-IH Units Per Floor	IH %-age
9	9	8	5	0	0	62.50%
8	8	8	7	0	0	87.50%
7	7	8	8	0	0	100.00%
6	6	9	8	0	0	88.89%
5	5	9	8	0	0	88.89%
4	4	9	8	0	0	88.89%
3	3	9	9	0	0	100.00%
2	2	9	9	0	0	100.00%
1	1	9	6	1	0	66.67%
		78	68	1	0	

IH = 60% of 80% AMI Units

Form 07-16-2012

PROJECT NAME: **909 Atlantic**
ADDRESS: **909 Atlantic, Brooklyn, NY**
DATE: **01.15.2016**

Unit Bedroom Mix Chart C

Unit Type

IH Unit Types	No. of Units	% Breakdown	Non-IH Unit Types *	No. of Units	% Breakdown	Super/Staff Units	TOTAL No. of Units
Studio	33	48.53%	Studio	4	44.44%	0	37
1-bd	21	30.88%	1-bd	3	33.33%	0	24
2-bd	12	17.65%	2-bd	1	11.11%	1	14
3-bd	2	2.94%	3-bd	1	11.11%	0	3
Total	**68**	**100.00%**	Total	**9**	**100.00%**	**1**	**78**

*Excludes Super/Staff Units
"IH" = 60% and 80% AMI UNITS
"Non-IH" = 125% AMI UNITS

Form 07-16-2012

FOR COMPLIANCE WITH ZR 23-96(c) THE BEDROOM MIX IS AT LEAST PROPORTIONAL TO THE BEDROOM MIX OF THE DWELLING UNITS IN THE GENERATING SITE, OTHER THAN THE SUPER'S UNIT PER ZR 23-96(c)(1)(i)

PROJECT NAME: **917 Atlantic**
ADDRESS: **917 Atlantic, Brooklyn, NY**
DATE: **07.24.2015**

Unit Size Chart D

125% AMI

Unit Summary # Bdrms	Units
0 Bdrm	4
1 Bdrm	3
2 Bdrm	1
3 Bdrm	1
Total	9

Construction Floor #	Marketing Floor #	Apt #	# Bdrms	Net Sq. Ft.	
1	1	1E	1	579	1
1	1	1F	0	425	1
4	4	4F	0	425	1
5	5	5E	1	579	1
6	6	6J	2	939	1
8	8	8F	0	442	1
9	9	9D	1	582	1
9	9	9E	3	988	1
9	9	9G	0	415	1
				5374	9

Super / Resident Manager Unit(s)

Construction Floor #	Marketing Floor #	Apt #	# Bdrms	Net Sq. Ft.	
1	1	1G	2	787	1

60% + 80% AMI "IH" UNITS

nit Summary # Bdrms	Units
0 Bdrm	33
1 Bdrm	21
2 Bdrm	12
3 Bdrm	2
Total	68

Construction Floor #	Marketing Floor #	Apt #	# Bdrms	Net Sq. Ft.	
1	1	1A	1	600	1
1	1	1B	0	422	1
1	1	1C	0	409	1
1	1	1D	1	582	1
1	1	1H	0	401	1
1	1	1J	0	402	1
2	2	2A	1	600	1
2	2	2B	0	422	1
2	2	2C	0	409	1
2	2	2D	1	582	1
2	2	2E	1	579	1
2	2	2F	0	425	1
2	2	2G	2	776	1
2	2	2H	0	402	1
2	2	2J	2	847	1
3	3	3A	1	600	1
3	3	3B	0	422	1
3	3	3C	0	409	1
3	3	3D	1	582	1
3	3	3E	1	579	1
3	3	3F	0	425	1
3	3	3G	2	776	1
3	3	3H	0	402	1
3	3	3J	2	847	1
4	4	4A	1	600	1
4	4	4B	0	422	1
4	4	4C	0	409	1
4	4	4D	1	581	1
4	4	4E	1	579	1
4	4	4G	2	815	1
4	4	4H	0	415	1
4	4	4J	2	939	1
5	5	5A	1	600	1
5	5	5B	0	422	1
5	5	5C	0	409	1
5	5	5D	1	582	1
5	5	5F	0	425	1
5	5	5G	2	815	1
5	5	5H	0	415	1
5	5	5J	2	939	1
6	6	6A	1	600	1
6	6	6B	0	422	1
6	6	6C	0	409	1
6	6	6D	1	581	1
6	6	6E	1	579	1
6	6	6F	0	425	1
6	6	6G	2	815	1
6	6	6H	0	415	1
7	7	7A	1	600	1
7	7	7B	0	422	1
7	7	7C	0	409	1
7	7	7D	1	582	1
7	7	7E	3	988	1
7	7	7F	0	442	1
7	7	7G	0	415	1
7	7	7H	2	939	1
8	8	8A	1	600	1
8	8	8B	0	422	1
8	8	8C	0	409	1
8	8	8D	1	582	1
8	8	8E	3	988	1
8	8	8G	0	415	1
8	8	8H	2	939	1
9	9	9A	1	600	1
9	9	9B	0	422	1
9	9	9C	0	409	1
9	9	9F	0	442	1
9	9	9H	2	939	1
				38477	68

PROJECT NAME: **909 Atlantic**
ADDRESS: **909 Atlantic, Brooklyn, NY**
DATE: **01.15.2016**

504 Designation Chart

Instructions: Please list the Inclusionary Housing Units by floor and designation. Please dedicate one column for each line of apartments.

Floor #	Inclusionary Housing Apartment Numbers									Total # of IH Units/Floor
9	9A-1BED	9B-0BED	9C-0BED	9D-1BED	9E-3BED	9F-0BED	9G-0BED	9H-2BED		8
8	8A-1BED	8B-0BED	8C-0BED	8D-1BED	8E-3BED	8F-0BED	8G-0BED	8H-2BED		8
7	7A-1BED	7B-0BED	7C-0BED	7D-1BED	7E-3BED	7F-0BED	7G-0BED	7H-2BED		8
6	6A-1BED	6B-0BED	6C-0BED	6D-1BED	6E-1BED	6F-0BED	6G-2BED	6H-0BED	6J-2BED	9
5	5A-1BED	5B-0BED	5C-0BED	5D-1BED	5E-1BED	5F-0BED	5G-2BED	5H-0BED	5J-2BED	9
4	4A-1BED	4B-0BED	4C-0BED	4D-1BED	4E-1BED	4F-0BED	4G-2BED	4H-0BED	4J-2BED	9
3	3A-1BED	3B-0BED	3C-0BED	3D-1BED	3E-1BED	3F-0BED	3G-2BED	3H-0BED	3J-2BED	9
2	2A-1BED	2B-0BED	2C-0BED	2D-1BED	2E-1BED	2F-0BED	2G-2BED	2H-0BED	2J-2BED	9
1	1A-1BED	1B-0BED	1C-0BED	1D-1BED	1E-1BED	1F-0BED	1G-2BED	1H-0BED	1J-0BED	9
										78 Total DU

Legend		Qty	%
	UFAS compliant for persons with mobility impairments	4	5%
	UFAS compliant for persons with hearing and visual impairments	2	3%
Red Text	Market Rate - 125% AMI	10	13%
Black Text	Low Income - 60% or 80% AMI	68	87%

PROJECT NAME: **909 Atlantic**
ADDRESS: **909 Atlantic, Brooklyn, NY**
DATE: **01.15.2016**

Unit Type & Distribution Chart

Instructions: Please list the Inclusionary Housing Units by floor and designation. Please dedicate one column for each line of apartments.

Floor #	Inclusionary Housing Apartment Numbers									Total # of IH Units/Floor
9	9A-1BED	9B-0BED	9C-0BED	9D-1BED	9E-3BED	9F-0BED	9G-0BED	9H-2BED		8
8	8A-1BED	8B-0BED	8C-0BED	8D-1BED	8E-3BED	8F-0BED	8G-0BED	8H-2BED		8
7	7A-1BED	7B-0BED	7C-0BED	7D-1BED	7E-3BED	7F-0BED	7G-0BED	7H-2BED		8
6	6A-1BED	6B-0BED	6C-0BED	6D-1BED	6E-1BED	6F-0BED	6G-2BED	6H-0BED	6J-2BED	9
5	5A-1BED	5B-0BED	5C-0BED	5D-1BED	5E-1BED	5F-0BED	5G-2BED	5H-0BED	5J-2BED	9
4	4A-1BED	4B-0BED	4C-0BED	4D-1BED	4E-1BED	4F-0BED	4G-2BED	4H-0BED	4J-2BED	9
3	3A-1BED	3B-0BED	3C-0BED	3D-1BED	3E-1BED	3F-0BED	3G-2BED	3H-0BED	3J-2BED	9
2	2A-1BED	2B-0BED	2C-0BED	2D-1BED	2E-1BED	2F-0BED	2G-2BED	2H-0BED	2J-2BED	9
1	1A-1BED	1B-0BED	1C-0BED	1D-1BED	1E-1BED	1F-0BED	1G-2BED	1H-0BED	1J-0BED	9
										78 Total DU

Unity Type	Qty	%
0 BED	37	47%
1 BED	24	31%
2 BED	14	18%
3 BED	3	4%
	78	

PROJECT NAME: **909 Atlantic**
ADDRESS: **909 Atlantic, Brooklyn, NY**
DATE: **01.15.2016**

60% & 80% AMI Designation Chart

Instructions: Please list the Inclusionary Housing Units by floor and designation. Please dedicate one column for each line of apartments.

Floor #	Inclusionary Housing Apartment Numbers									Total # of IH Units/Floor
9	9A-1BED	9B-0BED	9C-0BED	9D-1BED	9E-3BED	9F-0BED	9G-0BED	9H-2BED		5
8	8A-1BED	8B-0BED	8C-0BED	8D-1BED	8E-3BED	8F-0BED	8G-0BED	8H-2BED		7
7	7A-1BED	7B-0BED	7C-0BED	7D-1BED	7E-3BED	7F-0BED	7G-0BED	7H-2BED		8
6	6A-1BED	6B-0BED	6C-0BED	6D-1BED	6E-1BED	6F-0BED	6G-2BED	6H-0BED	6J-2BED	8
5	5A-1BED	5B-0BED	5C-0BED	5D-1BED	5E-1BED	5F-0BED	5G-2BED	5H-0BED	5J-2BED	8
4	4A-1BED	4B-0BED	4C-0BED	4D-1BED	4E-1BED	4F-0BED	4G-2BED	4H-0BED	4J-2BED	8
3	3A-1BED	3B-0BED	3C-0BED	3D-1BED	3E-1BED	3F-0BED	3G-2BED	3H-0BED	3J-2BED	9
2	2A-1BED	2B-0BED	2C-0BED	2D-1BED	2E-1BED	2F-0BED	2G-2BED	2H-0BED	2J-2BED	9
1	1A-1BED	1B-0BED	1C-0BED	1D-1BED	1E-1BED	1F-0BED	1G-2BED	1H-0BED	1J-0BED	6
										68 Total DU

60% & 80% AMI

Unity Type	Qty	%
0 BED	33	49%
1 BED	21	31%
2 BED	12	18%
3 BED	2	3%
	68	

125% AMI Designation Chart

Instructions: Please list the Inclusionary Housing Units by floor and designation. Please dedicate one column for each line of apartments.

Floor #	Inclusionary Housing Apartment Numbers									Total # of IH Units/Floor
9	9A-1BED	9B-0BED	9C-0BED	9D-1BED	9E-3BED	9F-0BED	9G-0BED	9H-2BED		3
8	8A-1BED	8B-0BED	8C-0BED	8D-1BED	8E-3BED	8F-0BED	8G-0BED	8H-2BED		1
7	7A-1BED	7B-0BED	7C-0BED	7D-1BED	7E-3BED	7F-0BED	7G-0BED	7H-2BED		0
6	6A-1BED	6B-0BED	6C-0BED	6D-1BED	6E-1BED	6F-0BED	6G-2BED	6H-0BED	6J-2BED	1
5	5A-1BED	5B-0BED	5C-0BED	5D-1BED	5E-1BED	5F-0BED	5G-2BED	5H-0BED	5J-2BED	1
4	4A-1BED	4B-0BED	4C-0BED	4D-1BED	4E-1BED	4F-0BED	4G-2BED	4H-0BED	4J-2BED	1
3	3A-1BED	3B-0BED	3C-0BED	3D-1BED	3E-1BED	3F-0BED	3G-2BED	3H-0BED	3J-2BED	0
2	2A-1BED	2B-0BED	2C-0BED	2D-1BED	2E-1BED	2F-0BED	2G-2BED	2H-0BED	2J-2BED	0
1	1A-1BED	1B-0BED	1C-0BED	1D-1BED	1E-1BED	1F-0BED	1G-2BED	1H-0BED	1J-0BED	2
										9 Total DU

125% AMI

Unity Type	Qty	%
0 BED	4	44%
1 BED	3	33%
2 BED	1	11%
3 BED	1	11%
	9	

Unity Type	Qty	%
Super	1	Super's Unit

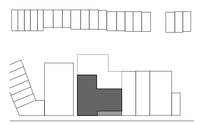
DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED
OWNER ATHENA HOUSING ASSOCIATES LLC.
STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.
MEP ENGINEER EP ENGINEERING
CODE CONSULTING DESIGN 2147
ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES
LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

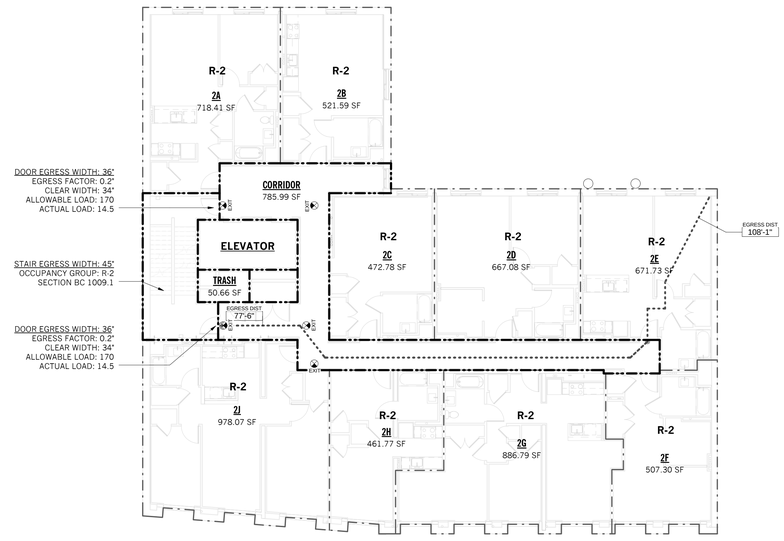
DISTRIBUTION CHARTS

REGISTERED ARCHITECT JONATHAN JOVA MARVEL No. 021460 STATE OF NEW YORK

DRAWING #: Z-104.00

12 of 92

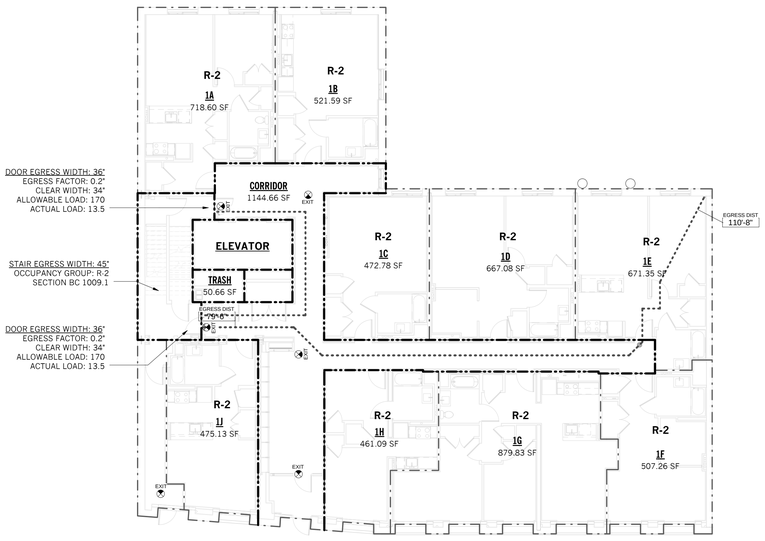
DOB ##### ZONE



MAX OCCUPANCY PER FLOOR = 29/2 EXITS = 14.5
STAIR A/B EGRESS OCCUPANT LOAD = 14.5

3 2ND-3RD FLOOR EGRESS PLAN
3/32" = 1'-0"

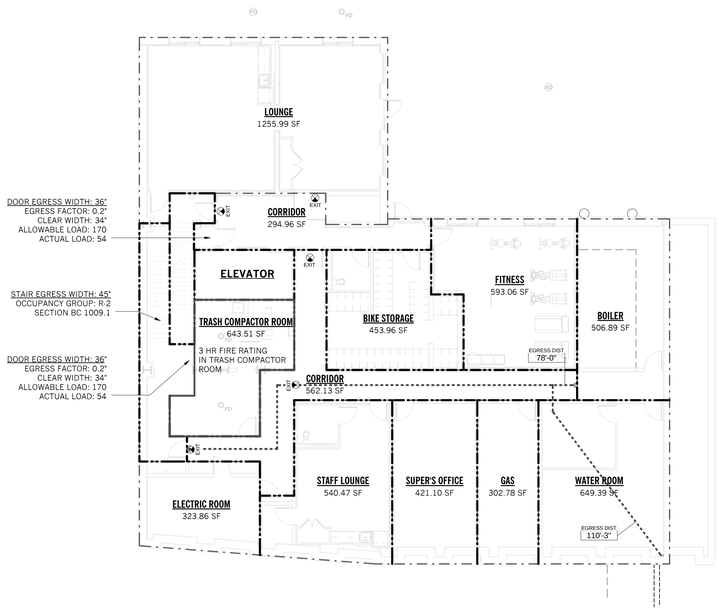
LIFE SAFETY TABLE 1.2 · ROOM OCCUPANCY · 2ND-3RD FLOOR				
SPACE	AREA	OCC. CLASS	OCCUPANT LOAD FACTOR	DESIGN OCCUPANT LOAD
2A	718 SF	R-2	200	4
2B	522 SF	R-2	200	3
2C	473 SF	R-2	200	2
2D	667 SF	R-2	200	3
2E	672 SF	R-2	200	3
2F	507 SF	R-2	200	3
2G	887 SF	R-2	200	4
2H	462 SF	R-2	200	2
2J	978 SF	R-2	200	5
TRASH	51 SF	R-2	0	
CORRIDOR	786 SF	R-2	0	
2nd-3rd Floor Design Occupant Load				29



MAX OCCUPANCY PER FLOOR = 27/2 EXITS = 13.5
STAIR A/B EGRESS OCCUPANT LOAD = 13.5

2 GROUND FLOOR EGRESS PLAN
3/32" = 1'-0"

LIFE SAFETY TABLE 1.1 · ROOM OCCUPANCY · GROUND FLOOR				
SPACE	AREA	OCC. CLASS	OCCUPANT LOAD FACTOR	DESIGN OCCUPANT LOAD
1A	719 SF	R-2	200	4
1B	522 SF	R-2	200	3
1C	473 SF	R-2	200	2
1D	667 SF	R-2	200	3
1E	671 SF	R-2	200	3
1J	475 SF	R-2	200	2
1H	461 SF	R-2	200	2
1G	880 SF	R-2	200	4
1F	507 SF	R-2	200	3
CORRIDOR	1145 SF	R-2	0	
TRASH	51 SF	R-2	0	
Ground Floor Design Occupant Load				27



MAX OCCUPANCY PER FLOOR = 108/2 EXITS = 54
STAIR A/B EGRESS OCCUPANT LOAD = 54

1 CELLAR EGRESS PLAN
3/32" = 1'-0"

LIFE SAFETY TABLE 1.0 · ROOM OCCUPANCY · CELLAR				
SPACE	AREA	OCC. CLASS	OCCUPANT LOAD FACTOR	DESIGN OCCUPANT LOAD
LOUNGE	1256 SF	R-2	15	84
CORRIDOR	295 SF	R-2	0	
CORRIDOR	562 SF	R-2	0	
FITNESS	593 SF	R-2	50	12
BIKE STORAGE	454 SF	R-2	300	2
BOILER	507 SF	F-2	300	2
WATER ROOM	649 SF	F-2	300	2
GAS	303 SF	F-2	300	1
STAFF LOUNGE	540 SF	R-2	200	3
SUPER'S OFFICE	421 SF	R-2	300	1
ELECTRIC ROOM	324 SF	F-2	300	1
TRASH COMPACTOR ROOM	644 SF	R-2	300	2
Cellar Design Occupant Load				109

GENERAL NOTES:
1. ALL PARTY WALLS BETWEEN RESIDENTIAL UNITS TO BE 2 HOUR FIRE RATED
2. ALL EGRESS STAIR AND CORRIDOR WALLS TO BE 2 HOUR FIRE RATED
3. ALL DOORS WITHIN EGRESS STAIRS AND CORRIDORS OR IN EGRESS PATH TO BE 2 HOUR FIRE RATED SELF CLOSING DOORS

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145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED
OWNER ATHENA HOUSING ASSOCIATES LLC.
STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.
MEP ENGINEER EP ENGINEERING
CODE CONSULTING DESIGN 2147
ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES
LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

EGRESS AND AREA PLANS

DRAWING #: EG-001 00

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DOB ##### ZONE

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Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

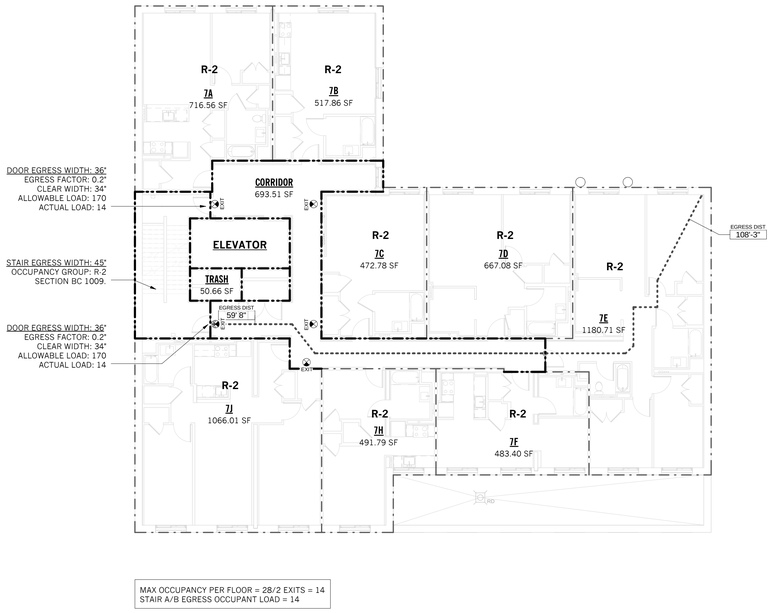
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

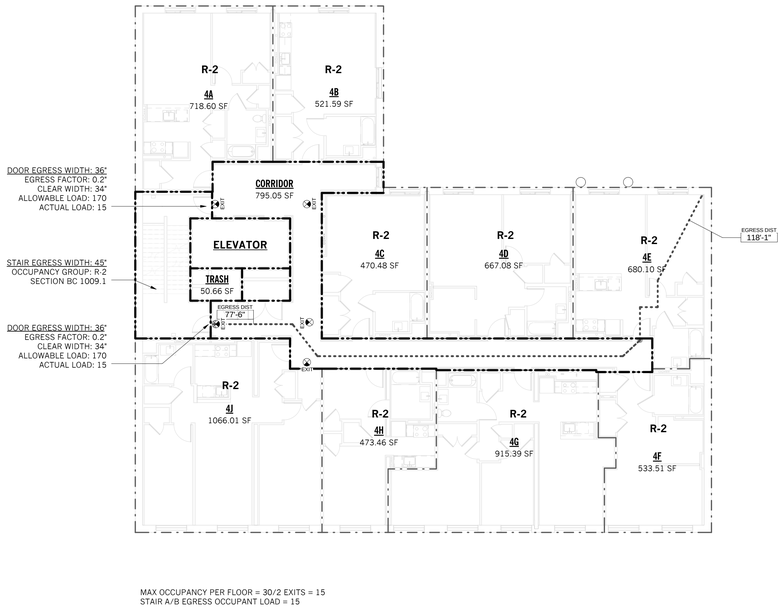


MAX OCCUPANCY PER FLOOR = 28/2 EXITS = 14
STAIR A/B EGRESS OCCUPANT LOAD = 14

2 7TH-9TH FLOOR EGRESS PLAN
3/32" = 1'-0"

LIFE SAFETY TABLE 1.4 · ROOM OCCUPANCY · 7TH-9TH FLOOR

SPACE	AREA	OCC. CLASS	OCCUPANT LOAD FACTOR	DESIGN OCCUPANT LOAD
7A	717 SF	R-2	200	4
7B	518 SF	R-2	200	3
7C	473 SF	R-2	200	2
7D	667 SF	R-2	200	3
7E	1181 SF	R-2	200	6
7F	483 SF	R-2	200	2
7H	492 SF	R-2	200	2
7J	1066 SF	R-2	200	5
TRASH	51 SF	R-2	0	
CORRIDOR	694 SF	R-2	0	
7th-9th Floor Design Occupant Load				28



MAX OCCUPANCY PER FLOOR = 30/2 EXITS = 15
STAIR A/B EGRESS OCCUPANT LOAD = 15

1 4TH-6TH FLOOR EGRESS PLAN
3/32" = 1'-0"

LIFE SAFETY TABLE 1.3 · ROOM OCCUPANCY · 4TH-6TH FLOOR

SPACE	AREA	OCC. CLASS	OCCUPANT LOAD FACTOR	DESIGN OCCUPANT LOAD
4A	719 SF	R-2	200	4
4B	522 SF	R-2	200	3
4C	470 SF	R-2	200	2
4D	667 SF	R-2	200	3
4E	680 SF	R-2	200	3
4F	534 SF	R-2	200	3
4G	915 SF	R-2	200	5
4H	473 SF	R-2	200	2
4J	1066 SF	R-2	200	5
TRASH	51 SF	R-2	0	
CORRIDOR	795 SF	R-2	0	
4th-6th Floor Design Occupant Load				30

GENERAL NOTES:
1. ALL PARTY WALLS BETWEEN RESIDENTIAL UNITS TO BE 2 HOUR FIRE RATED
2. ALL EGRESS STAIR AND CORRIDOR WALLS TO BE 2 HOUR FIRE RATED
3. ALL DOORS WITHIN EGRESS STAIRS AND CORRIDORS OR IN EGRESS PATH TO BE 2 HOUR FIRE RATED SELF CLOSING DOORS

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
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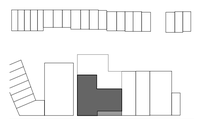
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

EGRESS AND AREA PLANS

DRAWING #: EG-002 00

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DOB ##### ZONE

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1/29/2016 4:34:36 PM

COMcheck Software Version 4.0.1

Envelope Compliance Certificate

Project Information

Energy Code: 2014 New York Energy Conservation Construction Code
Project Title:
Location: Kings County, New York
Climate Zone: 4a
Project Type: New Construction
Vertical Glazing / Wall Area: 18%

Construction Site:
915 Atlantic Avenue
Brooklyn, NY 11238

Owner/Agent:
Sally Gilliland
Athena Housing Associates, LLC
826 Broadway
11th Floor
New York, NY 10003
212-710-6028

Designer/Contractor:
Jonathan Marvel
Marvel Architects
145 Hudson Street
#304
New York, NY 10013
212-616-0420

Building Area	Floor Area
1-Multifamily : Residential	71760

Additional Efficiency Package

High efficiency HVAC. Systems that do not meet the performance requirement will be identified in the mechanical requirements checklist report.

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof 8" Plank with 4" insulation - Main Roof: Insulation Entirely Above Deck, [Bldg. Use 1 - Multifamily]	6864	---	20.0	0.048	0.039
Exterior Wall - EX2 - Grille: Other Wood Framed Wall, [Bldg. Use 1 - Multifamily] (b)	2517	---	---	0.120	0.064
Exterior Wall - EX2 - Brick on Mtl Stud: Steel-Framed, 16" o.c., [Bldg. Use 1 - Multifamily]	8856	13.0	12.0	0.050	0.064
Window - Slider with PTAK: Metal Frame:Operable, Perf. Specs.: Product ID NA, SHGC 0.40, [Bldg. Use 1 - Multifamily] (c)	3836	---	---	0.450	0.450
Window - Slider without PTAK: Metal Frame:Operable, Perf. Specs.: Product ID NA, SHGC 0.40, [Bldg. Use 1 - Multifamily] (c)	28	---	---	0.450	0.450
Door 3- Entry with Side Light: Uninsulated Double-Layer Metal, Swinging, [Bldg. Use 1 - Multifamily]	56	---	---	0.550	0.610
Exterior Wall - EX1 - Brick on 6" CMU: Concrete Block:6", Solid Grouted, Normal Density, Furring: Metal, [Bldg. Use 1 - Multifamily]	1635	0.0	12.0	0.068	0.090
Window - Slider with PTAK: Metal Frame:Operable, Perf. Specs.: Product ID NA, SHGC 0.40, [Bldg. Use 1 - Multifamily] (c)	784	---	---	0.450	0.450
Door - Entry with side lite: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Type: Energy code default, Double Pane, Clear , SHGC 0.70, [Bldg. Use 1 - Multifamily]	37	---	---	0.800	0.770
Door - Egress: Uninsulated Double-Layer Metal, Swinging, [Bldg. Use 1 - Multifamily]	21	---	---	0.700	0.610
Exterior Wall - 12" NRG Block: Concrete Block:12", Partially Grouted, Cells Insulated, Normal Density, Furring: Metal, [Bldg. Use 1 - Multifamily]	946	0.0	12.0	0.062	0.090

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Multifamily]					
Exterior Wall - EX1 - Brick on 6" CMU: Concrete Block:6", Solid Grouted, Normal Density, Furring: Metal, [Bldg. Use 1 - Multifamily]	14336	0.0	12.0	0.067	0.090
Window - Slider with PTAK: Metal Frame:Operable, Perf. Specs.: Product ID NA, SHGC 0.40, [Bldg. Use 1 - Multifamily] (c)	585	---	---	0.450	0.450
Floor - 3rd level @ Cantilever - Metal Panel: Concrete Floor (over unconditioned space), [Bldg. Use 1 - Multifamily]	64	---	12.0	0.066	0.074
Basement Wall - C12 - 12" Conc Foundation Wall: Solid Concrete:12" Thickness, Normal Density, Furring: None, Wall Ht:10.0, Depth B.G. 9.0, [Bldg. Use 1 - Multifamily]	4154	---	10.0	0.086	0.108

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) 'Other' components require supporting documentation for proposed U-factors.
(c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

Envelope PASSES: Design 0.3% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2014 New York Energy Conservation Construction Code requirements in COMcheck Version 4.0.1 and to comply with the mandatory requirements listed in the Inspection Checklist.

JONATHAN MARVEL - PRESIDENT — Name - Title
Signature
09/24/2015 — Date

REGISTERED ARCHITECT JONATHAN JOVA MARVEL No. 021492 STATE OF NEW YORK

COMcheck Software Version 4.0.1

Mechanical Compliance Certificate

Project Information

Energy Code: 2014 New York Energy Conservation Construction Code
Project Title:
Location: Kings County, New York
Climate Zone: 4a
Project Type: New Construction

Construction Site:
915 Atlantic Avenue
Brooklyn, NY 11238

Owner/Agent:
Sally Gilliland
Athena Housing Associates, LLC
826 Broadway
11th Floor
New York, NY 10003
212-710-6028

Designer/Contractor:
Jonathan Marvel
Marvel Architects
145 Hudson Street
#304
New York, NY 10013
212-616-0420

Additional Efficiency Package

Unspecified

Mechanical Systems List

Quantity	System Type & Description
71	PTAC - EZ12 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 10 kBtuh Proposed Efficiency = 87.00% Et, Required Efficiency = 80.00% Et Cooling: 1 each - Packaged Terminal Unit, Capacity = 12 kBtuh, Air-Cooled Condenser, No Economizer, Economizer exception: None Proposed Efficiency = 10.92 EER, Required Efficiency = 10.26 EER Fan System: None
16	PTAC - EZ16 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 10 kBtuh Proposed Efficiency = 87.00% Et, Required Efficiency = 80.00% Et Cooling: 1 each - Packaged Terminal Unit, Capacity = 15 kBtuh, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Residential Proposed Efficiency = 9.80 EER, Required Efficiency = 9.30 EER Fan System: None
55	PTAC - EZ07 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 10 kBtuh Proposed Efficiency = 87.00% Et, Required Efficiency = 80.00% Et Cooling: 1 each - Packaged Terminal Unit, Capacity = 7 kBtuh, Air-Cooled Condenser, No Economizer, Economizer exception: None Proposed Efficiency = 11.99 EER, Required Efficiency = 11.64 EER Fan System: None
1	PTAC - EZ09 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 10 kBtuh Proposed Efficiency = 87.00% Et, Required Efficiency = 80.00% Et Cooling: 1 each - Packaged Terminal Unit, Capacity = 9 kBtuh, Air-Cooled Condenser, No Economizer, Economizer exception: None Proposed Efficiency = 11.21 EER; Required Efficiency = 11.10 EER Fan System: None
1	ACCU-R-1 (Single Zone): VRF, Air Cooled Heat Pump Heating Mode: Capacity = 103 kBtuh, No minimum efficiency requirement applies Cooling Mode: Capacity = 92 kBtuh, No minimum efficiency requirement applies Fan System: None

Quantity	System Type & Description
5	Electric Baseboard - 1000W (Unknown): Heating: 1 each - Unit Heater, Electric, Capacity = 3 kBtuh No minimum efficiency requirement applies Fan System: None
10	Electric Baseboard - 750W (Unknown): Heating: 1 each - Unit Heater, Electric, Capacity = 3 kBtuh No minimum efficiency requirement applies Fan System: None
9	Electric Baseboard - 300W (Unknown): Heating: 1 each - Unit Heater, Electric, Capacity = 3 kBtuh No minimum efficiency requirement applies Fan System: None
9	Electric Baseboard - 264W (Unknown): Heating: 1 each - Unit Heater, Electric, Capacity = 1 kBtuh No minimum efficiency requirement applies Fan System: None
1	EDH-C-1 (Single Zone): Heating: 1 each - Duct Furnace, Electric, Capacity = 41 kBtuh No minimum efficiency requirement applies Fan System: None
4	CUH-C-1,2,3,4 (Unknown): Heating: 1 each - Unit Heater, Electric, Capacity = 5 kBtuh No minimum efficiency requirement applies Fan System: None
2	WH-C-1,2: Heating: Hot Water Boiler, Capacity 849 kBtuh, Gas Proposed Efficiency: 85.00 % Et, Required Efficiency: 80.00 % Et

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2014 New York Energy Conservation Construction Code requirements in COMcheck Version 4.0.1 and to comply with the mandatory requirements listed in the Inspection Checklist.

Evan Pergamos - President — Name - Title
Signature
9/24/15 — Date

STATE OF NEW YORK No. 081086 LICENSED PROFESSIONAL ENGINEER

COMcheck Software Version 4.0.1

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2014 New York Energy Conservation Construction Code
Project Title:
Project Type: New Construction

Construction Site:
915 Atlantic Avenue
Brooklyn, NY 11238

Owner/Agent:
Sally Gilliland
Athena Housing Associates, LLC
826 Broadway
11th Floor
New York, NY 10003
212-710-6028

Designer/Contractor:
Jonathan Marvel
Marvel Architects
145 Hudson Street
#304
New York, NY 10013
212-616-0420

Additional Efficiency Package

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Multifamily	60000	0.60	36000
		Total Allowed Watts =	36000

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Multifamily				
Linear Fluorescent 1 copy 3: FA: 48" T8 32W: Electronic:	2	5	64	320
Linear Fluorescent 1 copy 3: FA: 48" T8 32W: Electronic:	2	3	64	192
Linear Fluorescent 1 copy 1: FH: 46" T5 28W: Electronic:	1	92	28	2576
Linear Fluorescent 1 copy 1: FH: 46" T5 28W: Electronic:	1	5	28	140
Linear Fluorescent 1 copy 1: FA: 48" T8 32W: Electronic:	2	1	64	64
Linear Fluorescent 1 copy 8: FB: 48" T8 32W: Electronic:	2	19	64	1216
Linear Fluorescent 1 copy 8: FA: 48" T8 32W: Electronic:	2	2	64	128
Compact Fluorescent 1 copy 2: FG: Other: Electronic:	1	10	13	130
Linear Fluorescent 1 copy 10: FA: 48" T8 32W: Electronic:	2	4	64	256
Linear Fluorescent 1 copy 9: FA: 48" T8 32W: Electronic:	2	2	64	128
Compact Fluorescent 1 copy 1: FD: Other: Electronic:	2	1	36	36
Linear Fluorescent 1 copy 6: FA: 48" T8 32W: Electronic:	2	1	64	64
Linear Fluorescent 1 copy 7: FA: 48" T8 32W: Electronic:	2	2	64	128
Linear Fluorescent 1 copy 5: FA: 48" T8 32W: Electronic:	2	2	64	128
Linear Fluorescent 1 copy 4: FA: 48" T8 32W: Electronic:	2	2	64	128
Linear Fluorescent 1 copy 2: FA: 48" T8 32W: Electronic:	2	4	64	256
Compact Fluorescent 1: FD: Other: Electronic:	2	1	36	36
Linear Fluorescent 1: FH: 46" T5 28W: Electronic:	1	14	28	392
		Total Proposed Watts =		6318

Interior Lighting PASSES: Design 82% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2014 New York Energy Conservation Construction Code requirements in COMcheck Version 4.0.1 and to comply with the mandatory requirements listed in the Inspection Checklist.

Evan Pergamos - President — Name - Title
Signature
7/24/15 — Date

STATE OF NEW YORK No. 081086 LICENSED PROFESSIONAL ENGINEER

COMcheck Software Version 4.0.1

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2014 New York Energy Conservation Construction Code
Project Title:
Project Type: New Construction
Exterior Lighting Zone 2 (Residential mixed use area)

Construction Site:
915 Atlantic Avenue
Brooklyn, NY 11238

Owner/Agent:
Sally Gilliland
Athena Housing Associates, LLC
826 Broadway
11th Floor
New York, NY 10003
212-710-6028

Designer/Contractor:
Jonathan Marvel
Marvel Architects
145 Hudson Street
#304
New York, NY 10013
212-616-0420

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Roof (Illuminated length of facade wall or surface)	20 ft	2.5	No	50
Front Facade (Cellar Level) (Illuminated length of facade wall or surface)	93 ft	2.5	No	232
Front Facade (3rd floor Level) (Illuminated length of facade wall or surface)	93 ft	2.5	No	232
Rear Facade (Cellar Level) (Illuminated length of facade wall or surface)	132 ft	2.5	No	330
			Total Tradable Watts (a) =	0
			Total Allowed Watts =	845
			Total Allowed Supplemental Watts (b) =	600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Roof (Illuminated length of facade wall or surface 20 ft): Non-tradable Wattage				
LED 1: FK: LED A Lamp 12W:	1	2	15	30
Front Facade (Cellar Level) (Illuminated length of facade wall or surface 93 ft): Non-tradable Wattage				
LED 1 copy 3: FL: LED A Lamp 26W:	1	3	30	90
LED 1 copy 1: FK: LED A Lamp 12W:	1	3	15	45
Front Facade (3rd floor Level) (Illuminated length of facade wall or surface 93 ft): Non-tradable Wattage				
LED 1 copy 2: FL: LED A Lamp 26W:	1	3	30	90
LED 1 copy 2: FK: LED A Lamp 12W:	1	3	15	45
Rear Facade (Cellar Level) (Illuminated length of facade wall or surface 132 ft): Non-tradable Wattage				
LED 1 copy 3: FK: LED A Lamp 12W:	1	8	15	120
		Total Tradable Proposed Watts =		0

Exterior Lighting PASSES: Design 0.0% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2014 New York Energy Conservation Construction Code requirements in COMcheck Version 4.0.1 and to comply with the mandatory requirements listed in the Inspection Checklist.

Evan Pergamos - President — Name - Title
Signature
9/24/15 — Date

STATE OF NEW YORK No. 081086 LICENSED PROFESSIONAL ENGINEER

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED
OWNER ATHENA HOUSING ASSOCIATES LLC.
STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.
MEP ENGINEER EP ENGINEERING
CODE CONSULTING DESIGN 2147
ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES
LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
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3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
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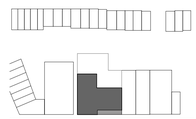
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

ENERGY ANALYSIS

REGISTERED ARCHITECT JONATHAN JOVA MARVEL No. 021492 STATE OF NEW YORK

DRAWING #: EN-100 00

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Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED

OWNER ATHENA HOUSING ASSOCIATES LLC.

STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.

MEP ENGINEER EP ENGINEERING

CODE CONSULTING DESIGN 2147

ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES

LANDSCAPE ABEL BAINNSON BUTZ, LLP

1. Required progress inspections. The following progress inspections and/or testing listed below in Table II shall be required when applicable to the scope of work. Energy Code sections cited in Tables II shall be understood to include the section, all subsections, all tables and, when ASHRAE 90.1 is used, appendices related to the cited Energy Code section.
2. Construction scheduling instructions. In accordance with Article 116 of Title 28 and Section BC 109, construction shall be scheduled to allow required progress inspections to take place, and that roofs, ceilings, exterior walls, interior walls, floors, foundations, basements and any other construction shall not be covered or enclosed until required progress inspections are completed or the progress inspector indicates that such covering or enclosure may proceed, at each stage of construction, as applicable.
3. Inspection or test failure. In accordance with Section BC 109.9 and ECC 104.2.3, where an inspection or test fails, the construction shall be corrected and must be made available for reinspection and/or retesting by the progress inspector until it complies. For additions and alterations, the applicant must clearly indicate what portions of the altered systems should be inspected and/or tested, and what inspection and/or testing may be outside the scope of the work.

4. Deferred submittals. Drawings showing design intent and performance criteria matching those in the energy analysis may be submitted as supporting documentation provided that, in accordance with Section 28-104.2.6 of the Administrative Code, the applicant lists such deferred submittals in the construction drawings and submits them for approval prior to installation or construction. If required, the energy analysis must be updated when deferred submittals are provided for approval.
5. Energy Analysis of Constructed Conditions. In accordance with Section 28-104.3 of the Administrative Code and section ECC 103.4, if constructed work differs from the last-approved full energy analysis, an as-built energy analysis shall be submitted to the Department, listing the actual values used in the building for all applicable Energy Code-regulated items and demonstrating that the building complies with the Energy Code. Such energy analysis shall be signed and sealed by a registered design professional. The progress inspector shall certify that to the best of his or her knowledge and belief the building as built complies with such signed and sealed energy analysis and construction drawings for energy code compliance; where no trade-offs have been used among disciplines, more than one registered design professional may sign and seal the elements of the energy analysis. The energy analysis shall be approved or accepted by the Department prior to sign-off.

TABLE II
PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE COMMERCIAL BUILDINGS

IIA Envelope Inspections

	Inspection/Test	Periodic (minimum)	Reference Standard (See ECC Chapter 6) or Other Criteria	ECC or Other Citation
IIA1	**Protection of exposed foundation insulation:** Insulation shall be visually inspected to verify proper protection where applied to the exterior of basement or 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	303.2.1; ASHRAE 90.1 - 5.8.1.7
IIA2	**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-values 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	303.1, 303.1.1, 303.1.2, 502.1, 502.2; ASHRAE 90.1 -5.5, 5.6 or 11; 5.8.1
IIA3	**Fenestration thermal values and product ratings:** U-factors and SHGC values of installed fenestration shall be visually inspected for conformance with the U-factors and SHGC values identified in the construction drawings by verifying the manufacturer's NFRC labels or, where not labeled, using the ratings in ECC Tables 303.1.3(1), (2) and (3). Where ASHRAE 90.1 is used, visible light transmittance values shall also be verified.	As required during installation	Approved construction documents; NFRC 100, NFRC 200	303.1, 303.1.3, 502.3; ASHRAE 90.1 -5.5; 5.6 or 11; 5.8.2
IIA4	**Fenestration and door assembly product ratings for air leakage:** Windows and sliding or swinging door assemblies, except site-built windows and/or doors, shall be visually inspected to verify that installed assemblies are listed and labeled by the manufacturer to the referenced standard. For curtain wall, storefront glazing, commercial entrance doors and revolving doors, the testing reports shall be reviewed to verify that the installed assembly complies with the standard cited in the approved plans.	As required during installation; prior to final construction inspection	NFRC 400, AAMA/WDMA/CSA 101/I.S.2/A440 ASTM E283; ANSI/DASMA 105	502.4; ASHRAE 90.1 -5.4.3.2
IIA5	**Fenestration areas:** Dimensions of windows, doors and skylights shall be verified by visual inspection.	Prior to final construction inspection	Approved construction documents	502.3; ASHRAE 90.1 - 5.5.4, 5.6 or 11
IIA7	**Projection factors:** Where the energy analysis utilized a projection factor > 0, the projection dimensions of overhangs, eaves or permanently attached shading devices shall be verified for conformance with approved plans by visual inspection.	Prior to final construction inspection	Approved construction documents, including energy analysis	502.3; ASHRAE 90.1 - 5.5.4, 5.6 or 11
IIA9	**Building entrance vestibules**: Required entrance vestibules shall be visually inspected for proper operation.	Prior to final construction inspection	Approved construction documents	502.4.6; ASHRAE 90.1 - 5.4.3.4

IIB Mechanical and Service Water Heating Inspections

IIB2	**Outdoor air intakes and exhaust openings** : Dampers for stair and elevator shaft vents and other outdoor air intakes and exhaust openings integral to the building envelope shall be visually inspected to verify that such dampers, except where permitted to be gravity dampers, comply with approved construction drawings. Manufacturer's literature shall be reviewed to verify that the product has been tested and found to meet the standard.	As required during installation	Approved construction documents; AMCA 500D	502.4.4; ASHRAE 90.1 - 6.4.3.4	
IIB3	**HVAC, service water heating and pool equipment sizing and performance:** Equipment sizing, efficiencies and other performance factors of all major equipment units, as determined by the applicant of record, and no less than 15% of minor equipment units, shall be verified by visual inspection and, where necessary, review of manufacturer's data. Pool heaters and covers shall be verified by visual inspection.	Prior to final plumbing and construction inspection	Approved construction documents	503.2, 504.2, 504.7; ASHRAE 90.1 - 6.3, 6.4.1, 6.4.2, 6.8; 7.4, 7.8	**Controls with seasonally dependent functionality:** Controls whose complete operation cannot be demonstrated due to prevailing weather conditions typical of the season during which progress inspections will be performed shall be permitted to be signed off for the purpose of a Temporary Certificate of Occupancy with only a visual inspection, provided, however, that the progress inspector shall perform a supplemental inspection where the controls are visually inspected and tested for functionality and proper operation during the next immediate season thereafter. The owner shall provide full access to the progress inspector within two weeks of the progress inspector's request for such access to perform the progress inspection. For such supplemental inspections, the Department shall be notified by the approved progress inspection agency of any unresolved deficiencies in the installed work within 180 days of such supplemental inspection.
IIB4	**HVAC system controls and economizers and service hot water system controls:** No less than 20% of each type of required controls and economizers shall be verified by visual inspection and tested for functionality and proper operation. Such controls shall include, but are not limited to: · Thermostatic · Set point overlap restriction · Off-hour · Shutoff damper · Snow-melt system · Demand control systems · Outdoor heating systems · Zones · Economizers · Air systems · Variable air volume fan · Hydronic systems · Heat rejection equipment fan speed · Complex mechanical systems serving multiple zones · Ventilation · Energy recovery systems · Hot gas bypass limitation · Temperature · Service water heating · Hot water system · Pool heater and time switches · Exhaust hoods · Radiant heating systems.	After installation and prior to final electrical and construction inspection, except that for controls with seasonally dependent functionality, such testing shall be performed before sign-off for issuance of a Final Certificate of Occupancy	Approved construction documents, including control system narratives; ASHRAE Guideline 1: The HVAC Commissioning Process where applicable	503.2.4, 503.2.5.1, 503.2.11, 503.3, 503.4, 504.3, 504.6 504.7; ASHRAE 90.1 - 6.3, 6.4, 6.5, 6.7.2.4, 7.4.4, 7.4.5	
IIB5	**Duct, plenum and piping insulation and sealing:** Installed duct and piping insulation shall be visually inspected to verify proper insulation placement and values. Joints, longitudinal and transverse seams and connections in ductwork shall be visually inspected for proper sealing.	After installation and prior to closing shafts, ceilings and walls	Approved construction documents; SMACNA Duct Construction Standards, Metal and Flexible	503.2.7, 503.2.8, 504.5; ASHRAE 90.1 - 6.3, 6.4.4.2, 6.8.2, 6.8.3; 7.4.3	
IIB6	**Air leakage testing for high-pressure duct systems:** For duct systems designed to operate at static pressures in excess of 3 inches w.g. (746 Pa), representative sections, as determined by the progress inspector, totaling at least 25% of the duct area, per ECC 503.2.7.1.3, shall be tested to verify that actual air leakage is below allowable amounts.	After installation and sealing and prior to closing shafts, ceilings and walls	Approved construction documents; SMACNA HVAC Air Duct Leakage Test Manual	503.2.7.1.3; ASHRAE 90.1 - 6.4.4.2	

IIC Electrical Power and Lighting Systems

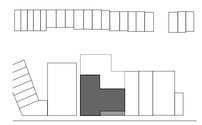
IIC1	**Electrical metering:** The presence and operation of individual meters or other means of monitoring individual apartments shall be verified by visual inspection for all apartments.	Prior to final electrical and construction inspection	Approved construction documents	505.7
IIC2	**Lighting in dwelling units:** Lamps in permanently installed lighting fixtures shall be visually inspected to verify compliance with high-efficacy requirements.	Prior to final electrical and construction inspection	Approved construction documents	505.5.3
IIC3	**Interior lighting power:** Installed lighting shall be verified for compliance with the lighting power allowance by visual inspection of fixtures, lamps, ballasts and transformers.	Prior to final electrical and construction inspection	Approved construction documents	505.5; ASHRAE 90.1 -9.1, 9.2, 9.5, 9.6; 1RCNY §101-07(c)(3)(v)(C)4
IIC4	**Exterior lighting:** Installed lighting shall be verified for compliance with source efficacy and/or the lighting power allowance by visual inspection	Prior to final electrical and construction inspection	Approved construction documents	505.6; ASHRAE 90.1 - 9.4.4, 9.4.5; 1RCNY §101-07(c)(3)(v)(C)4
IIC5	**Lighting controls** : Each type of required lighting controls, including: · occupant sensors · manual interior lighting controls · light-reduction controls · automatic lighting shut-off · daylight zone controls · sleeping unit controls · exterior lighting controls shall be verified by visual inspection and tested for functionality and proper operation	Prior to final electrical and construction inspection	Approved construction documents, including control system narratives	505.2, 505.2.2.2; ASHRAE 90.1 - 9.4.1, 9.4.1.2 (as modified by section ECC A102)
IIC6	**Exit signs:** Installed exit signs shall be visually inspected to verify that the label indicates that they do not exceed maximum permitted wattage.	Prior to final electrical and construction inspection	Approved construction documents	505.4; ASHRAE 90.1 - 9.4.3
IIC7	**Tandem wiring:** Tandem wiring shall be tested for functionality.	Prior to final electrical and construction inspection	Approved construction documents	505.3; ASHRAE 90.1 - 9.4.2

IID Other

IID1	**Maintenance information:** Maintenance manuals for mechanical, service hot water and electrical equipment and systems requiring preventive maintenance shall be reviewed for applicability to installed equipment and systems before such manuals are provided to the owner. Labels required for such equipment or systems shall be inspected for accuracy and completeness.	Prior to sign-off or issuance of Final Certificate of Occupancy	Approved construction documents, including electrical drawings where applicable; ASHRAE Guideline 4: Preparation of Operating and Maintenance Documentation for Building Systems	303.3, 503.2.9.3; ASHRAE 90.1 - 4.2.2.3, 6.7.2.2, 8.7.2

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

NYC ENERGY CONSERVATION CODE

REGISTERED ARCHITECT JONATHAN JOSHUA MARVEL No. 024680 STATE OF NEW YORK

DRAWING #: EN-101 00

16 of 92

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DOB ##### ZONE

1/29/2016 4:34:46 PM

JOB NO. B 2018-62-TO

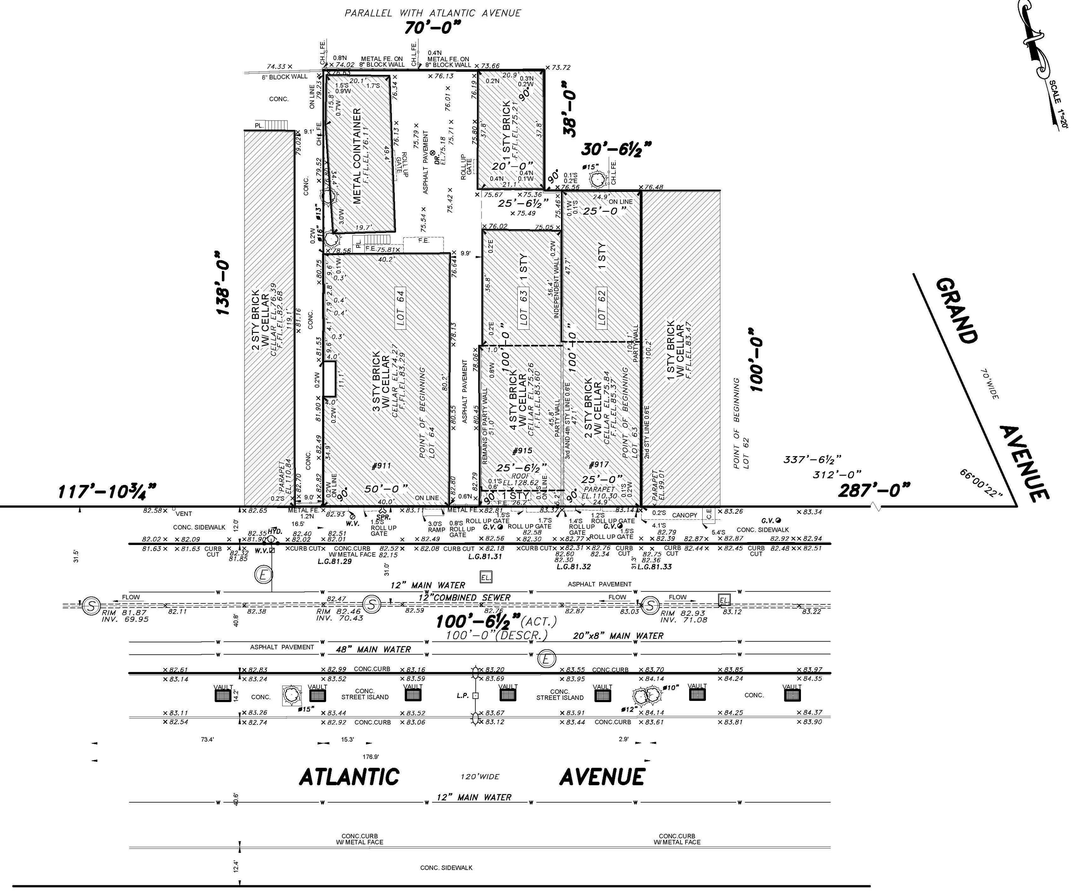
SURVEYED ON: MAY 5, 2015

JULY 10, 2015 - SEWER AND WATER LINE REVISION. NO FIELD INSPECTION.

FLOOD NOTE

BY GRAPHIC PLOTTING ONLY, SUBJECT PROPERTY IS LOCATED IN **ZONE X (AREA OF NO FLOODING)**

AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR COMMUNITY PANEL NUMBER **360 497 0212 F** WHICH BEARS AN EFFECTIVE DATE OF SEPTEMBER 5, 2007 AND REVISED DECEMBER 5, 2013.



LOT 62 AREA = 2500.00 sq.ft. = 0.0573 acre

LOT 63 AREA = 2554.00 sq.ft. = 0.0586 acre

LOT 63 AREA = 7660.00 sq.ft. = 0.1758 acre

TOTAL AREA = 12714.00 sq.ft. = 0.2917 acre

GRAPHIC SCALE

ALL WRITTEN MEASUREMENTS AND OFFSETS NOTED ON THIS SURVEY SUPERSEDE MEASUREMENTS SCALED OF THIS PLOT.

SCALE 1:20

0 5 10 15 20 25 30 35 40 45 50 100

SYMBOLS AND ABBREVIATIONS

FENCE	CH./F. / WOOD F.
UTILITY POLE	U.P.
PARKING METER	P.M.
OIL FILL	O.F.
MONITORING WELL	M.W.
TRAFFIC LIGHT	T.L.
LIGHT	
STREET LIGHT	L.P.
FIRE HYDRANT	HYD.
SIAMESE CONNECTION	SIAM.
SHUT OFF VALVE	G.V. C.V. W.V. M.V.
HANDICAPPED PARKING	
EXISTING TREE	#12"
DRAINS	D.R.
ROOF OVER	R.O.
EXISTING ELEVATIONS	×43.15 TOP OF CURB ×42.93 BOTTOM OF CURB
CITY ESTABLISHED GRADES	L.G.7.52
CURB AND CURB CUT	CURB CUT OHS.W.
OVERHEAD SERVICE	
CABLE TV MANHOLE	CTV
MANHOLES	M.H. F T W S RIM EL. INV.EL.
CATCH BASIN	C.B.
FIRE ESCAPE	F.E.
PLATFORM	PL. or PLTF.
BASEMENT ENTRANCE	B.E.
CELLAR ENTRANCE	C.E.
AIR WAY	A.W.
BAY WINDOW	B.W.
CONCRETE	CONC.
OVERHANG	O.H.
AIR CONDITION	AC
METAL	MET.
NORTH OF PROPERTY LINE	N
SOUTH OF PROPERTY LINE	S
EAST OF PROPERTY LINE	E
WEST OF PROPERTY LINE	W

GENERAL NOTES

SUBSURFACE UTILITIES ARE NOT GUARANTEED BY SURVEYOR. HIGH CAUTION RECOMMENDED AND VERIFICATION WITH PROPER CITY AGENCIES, IS MANDATORY BEFORE COMMENCING ALL NEW WORK.

ALL SUBSURFACE AND OVERHEAD UTILITIES (AS TO SIZE , TYPE AND DEPTH) SHOWN ON THIS SURVEY ARE TAKEN FROM RECORDS OF GOVERNMENTAL AGENCIES AND UTILITY COMPANIES, UNLESS OTHERWISE NOTED AND SHOWN.

COVER OR DEPTH OF UTILITIES WHICH DERIVED FROM FIELD MEASUREMENTS SHOWN ON THIS SURVEY SHOULD BE VERIFIED WITH PROPER AGENCY PRIOR TO CONSTRUCTION OF PROJECT. INVERT ELEVATIONS ARE DERIVED FROM CITY AGENCY RECORDS WHEN NOT AVAILABLE BY FIELD SURVEY AND NOTED AS "PER RECORD" ON THE SURVEY.

ALL SUBSURFACE UTILITY AS TO LOCATION AND DEPTH, SHOULD BE RECHECKED AND LEGAL GRADES SHOULD BE VERIFIED WITH THE TOPOGRAPHICAL BUREAU, PREFERABLY IN WRITING BEFORE COMMENCING CONSTRUCTION.

THIS IS TO CERTIFY THAT THERE ARE NO STREAMS OR NATURAL WATER COURSES ON THE SURVEYED PROPERTY EXCEPT AS SHOWN AND/OR DESCRIBED ON THIS SURVEY.

ALL OPERATIONS OF UNDERGROUND FACILITIES AND ALL EXCAVATORS ARE OBLIGATED TO COMPLY WITH ARTICLE 36 OF THE GENERAL BUSINESS LAW AND WITH PROVISIONS OF INDUSTRIAL CODE PART (RULE NO.35) BEFORE ANY EXCAVATION OR DEMOLITION IS COMMENCED. EVERY EXCAVATOR IS REQUIRED BY THESE LAWS TO GIVE ADVANCE NOTICE TO EVERY OPERATOR OF UNDERGROUND FACILITIES OF HIS INTENT TO PERFORM EXCAVATION OR DEMOLITION WORK IN THE SPECIFIED AREA

ALL ELEVATIONS SHOWN REFER TO THE **NAVD 1988** DATUM. TO OBTAIN:
- NGVD 1929 DATUM - ADD 1.088 FEET
- BROOKLYN BOROUGH DATUM - SUBTRACT 1.447 FEET

EASEMENTS IF ANY ARE NOT SHOWN ON THIS SURVEY. NO INFORMATION PROVIDED TO SURVEYOR AT THIS TIME.

UNDERGROUND UTILITIES NOTES

UNDERGROUND, OVERHEAD AND GROUND LEVEL UTILITIES ARE NOT GUARANTEED AS TO ACCURACY, EXACT LOCATION, TYPE OR USE, ACTIVE OR INACTIVE. VERIFICATION IS MANDATORY WITH MUNICIPAL AGENCIES, PUBLIC AND PRIVATE UTILITY COMPANIES PRIOR TO TAKING TITLE AND OR DESIGN WORK. BOUNDARIES ARE NOT GUARANTEED UNLESS SO NOTED.

ALL OPERATIONS OF UNDERGROUND FACILITIES AND ALL EXCAVATORS ARE OBLIGATED TO COMPLY WITH ARTICLE 36 OF THE GENERAL BUSINESS LAW AND WITH PROVISIONS OF INDUSTRIAL CODE PART (RULE NO. 35) BEFORE ANY EXCAVATION OR DEMOLITION IS COMMENCED. EVERY EXCAVATOR IS REQUIRED BY THESE LAWS TO GIVE ADVANCE NOTICE TO EVERY OPERATOR OF UNDERGROUND FACILITIES OF HIS INTENT TO PERFORM EXCAVATION OR DEMOLITION WORK IN THE SPECIFIED AREA

GUARANTEED TO:

COUNTY: KINGS CITY: BROOKLYN

SECTION: BLOCK: 2018 LOT(S): 62, 63, 64

PROPERTY ADDRESS: 911, 915 & 917 ATLANTIC AVENUE

ARCHITECTURAL SURVEY

PREPARED BY

PERFECT POINT
LAND SURVEYING RT
brooklyn - queens - manhattan - bronx
staten island - nassau
phone: (718) 474-7700
fax: (718) 872-9699
info@ppsurveying.com
www.ppsurveying.com

N.Y.S. L.L.S. 049844

DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED

OWNER ATHENA HOUSING ASSOCIATES LLC.

STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.

MEP ENGINEER EP ENGINEERING

CODE CONSULTING DESIGN 2147

ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES

LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
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4	09.25.2015	ISSUED FOR DOB #1
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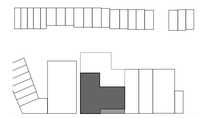
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

SITE SURVEY

REGISTERED ARCHITECT JONATHAN JOVA MARVEL No. 021492 STATE OF NEW YORK

DRAWING #: A-001.00

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DOB ##### ZONE

1/29/2016 4:21:25 PM

1 PLAN - ARCH - SITE PLAN
1/8" = 1'-0"

SYMBOLS LEGEND

- STRUCTURAL GRID CENTER LINE
- ZONING LOT LINE
- NORTH ARROW
- 1 VIEW NAME 1/8" = 1'-0" — DRAWING IDENTIFIER
- 99 — STRUCTURAL GRID IDENTIFIER
- G.V. — UTILITY POLE
- HYD. — FIRE HYDRANT
- STREET TREES
- 00.00 B.O.C — BOTTOM OF CURB ELEVATION LEVEL
- 00.00 T.O.C — TOP OF CURB ELEVATION LEVEL
- SPR. — SIAMESE CONNECTION
- 1i — COLUMN NUMBER

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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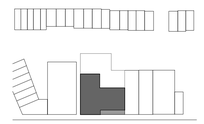
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

SITE PLAN

REGISTERED ARCHITECT
JONATHAN JOHN MARVEL
No. 021001
STATE OF NEW YORK

DRAWING #: A-002 00

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DOB ##### ZONE

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3 SITE PLAN

1 & 2 FAMILY RESIDENTIAL
MULTI-FAMILY RESIDENTIAL
MIXED USE
OPEN SPACE & OUTDOOR REC
COMMERICAL
INSTITUTIONS
INDUSTRIAL
PARKING
TRANSPORTATION/ UTILITIES
VACANT LAND

2 AREA PLAN

IMAGE 1

IMAGE 2

IMAGE 3

IMAGE 4

1 SITE PHOTOS

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

SITE PHOTOS

REGISTERED ARCHITECT
JONATHAN JOHN MARVEL
No. 021460
STATE OF NEW YORK

DRAWING #: A-003.00

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DOB ##### ZONE

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FINISH SCHEDULE

Level	Schedule Level	Room	Floor Finish	Base Finish	Wall Material	Wall Finish	Ceiling Material	Ceiling Finish	Finish Comments
CELLAR									
CELLAR	CELLAR	BIKE STORAGE	CONC-1		CMU/GWB	PTD-1			
CELLAR	CELLAR	BOILER	CONC-1		CMU	--			
CELLAR	CELLAR	CORRIDOR (AMENITY)	TL-8	TL-10	GWB	PTD-1	GWB	PTD-1	
CELLAR	CELLAR	CORRIDOR (BOH)	CONC-1	--	CMU	--			
CELLAR	CELLAR	ELECTRIC	CONC-1		CMU	--		KKEPC-SS/PTD-FF	
CELLAR	CELLAR	GAS	CONC-1		CMU	--			
CELLAR	CELLAR	SEWAGE EJECTOR ROOM	CONC-1		CMU	--			
CELLAR	CELLAR	STAFF ROOM	CONC-1		CMU	PTD-1			
CELLAR	CELLAR	STAFF WC	TL-1		GWB	TL-2			
CELLAR	CELLAR	STAIR A	CONC-1		CMU	PTD-4		KKEPC-SS/PTD-FF	
CELLAR	CELLAR	STAIR B	CONC-1		CMU	PTD-4		KKEPC-SS/PTD-FF	
CELLAR	CELLAR	STORAGE	CONC-1		CMU	--			
CELLAR	CELLAR	SUPER'S OFFICE	CONC-1		CMU				
CELLAR	CELLAR	TENANT ACCESSORY FITNESS	RBT-1	WDB-1	CMU	PTD-4/PNL-3		ACT	SEE A-801, RUBBER FLOORING "DINOFLEX" OR EQUAL
CELLAR	CELLAR	TENANT LOUNGE	TL-6	TL-11	GWB	PTD-1	GWB	PTD-1	SEE A-801
CELLAR	CELLAR	TENANT WC	TL-1	TL-12	GWB	TL-2		ACT	SEE A-150
CELLAR	CELLAR	TRASH COMPACTOR ROOM	CONC-1		CMU	--			
CELLAR	CELLAR	TRASH ROOM	CONC-1	--	CMU				SEE A-530
CELLAR	CELLAR	WATER ROOM	CONC-1	--	CMU				
GROUND FLOOR									
GROUND FLOOR	GROUND FLOOR	CORRIDOR	TL-7 TL-6	TL-10	GWB	PTD-1	GWB	PTD-1	SEE A-802
GROUND FLOOR	GROUND FLOOR	ELEVATOR LOBBY / CORRIDOR	TL-6	TL-6	CMU	TL-5			SEE A-802
GROUND FLOOR	GROUND FLOOR	LOBBY	TL-6	TL-6	CMU	TL-5			SEE A-800
GROUND FLOOR	GROUND FLOOR	LOBBY VESTIBULE	TL-6/MAT-1	TL-11	GWB	PTD-1	GWB	PTD-1	
GROUND FLOOR	GROUND FLOOR	STAIR A	CONC-1		GWB/CMU	PTD-5/ PTD-4/ PTD-3		KKEPC-SS/PTD-FF	SEE A-510
GROUND FLOOR	GROUND FLOOR	STAIR B/EGRESS EXIT	CONC-1		GWB/CMU	PTD-5/ PTD-4/ PTD-3			SEE A-510
GROUND FLOOR	GROUND FLOOR	STORAGE/ELEC CLOSET	CONC-1		GWB/CMU	PTD-2		KKEPC-SS/PTD-FF	SEE A-530
GROUND FLOOR	GROUND FLOOR	TRASH ROOM	CONC-1		GWB/CMU	TL-4		KKEPC-SS/PTD-FF	SEE A-530
TYP FLOOR									
4TH FLOOR	TYP FLOOR	BATHROOM	TL-1	TL-11	GWB	TL-2/PTD-2	GWB	PTD-1	SEE A-150/A-151
4TH FLOOR	TYP FLOOR	BR	WD-1	WDB-1/PTD-1	GWB	PTD-2		KKEPC-SS/PTD-FF	
4TH FLOOR	TYP FLOOR	CLOSET	WD-1	WDB-1/PTD-1	GWB	PTD-2		KKEPC-SS/PTD-FF	
4TH FLOOR	TYP FLOOR	CORRIDOR	TL-7 & TL-8	TL-10	GWB	PTD-1	GWB	PTD-1	SEE A-802
4TH FLOOR	TYP FLOOR	KITCHEN	WD-1	--	GWB	TL-4			SEE A-152/A-153
4TH FLOOR	TYP FLOOR	LR	WD-1	WDB-1/PTD-2	GWB	PTD-2		KKEPC-SS/PTD-FF	
4TH FLOOR	TYP FLOOR	STAIR A	CONC-1	--	CMU	PTD-4/PTD-3		KKEPC-SS/PTD-FF	SEE A-510
4TH FLOOR	TYP FLOOR	STAIR B	CONC-1	--	CMU	PTD-4/PTD-3		KKEPC-SS/PTD-FF	SEE A-510
4TH FLOOR	TYP FLOOR	STORAGE / ELEC CLST	CONC-1	--	GWB	PTD-2		KKEPC-SS/PTD-FF	
4TH FLOOR	TYP FLOOR	TRASH ROOM	CONC-1		GWB	TL-4		KKEPC-SS/PTD-FF	
4TH FLOOR	TYP FLOOR	W/D CLOSET	TL-1	TL-12	GWB	PTD-2		KKEPC-SS/PTD-FF	
ROOF									
ROOF	ROOF	STAIR A	CONC-1		CMU	PTD-4/PTD-3		KKEPC-SS/PTD-FF	SEE A-510
ROOF	ROOF	STAIR B	CONC-1		CMU	PTD-4/PTD-3		KKEPC-SS/PTD-FF	SEE A-510

5.0 ACCESSORIES SCHEDULE

TAG	ROOM-LOCATION	ACCESSORY	MANUFACT	MODEL TYPE	FINISHING	COMMENT
AC-1	ALL BATHROOMS	12 in. GRAB BAR	MOEN	8712	STAINLESS STEEL	12 in. Length
AC-2	ALL BATHROOMS	24 in. GRAB BAR	MOEN	8724	STAINLESS STEEL	24 in. Length
AC-3	ALL BATHROOMS	36 in. GRAB BAR	MOEN	8736	STAINLESS STEEL	36 in. Length
AC-4	ALL BATHROOMS	18 in. GRAB BAR	MOEN	8718	STAINLESS STEEL	18 in. Length
AC-5	ALL DWELLING UNITS WC	MIRROR	ROBERN	UC3027FPE	STAINLESS STEEL	30 in. X 27 in. Recessed
AC-6	ALL DWELLING UNITS WC	TOILET PAPER HOLDER	BASCO	1631P	STAINLESS STEEL	Accessibility Compliant
AC-7	ALL UFAS BATHROOM	TUB SEAT	SEACHROME CORPORATION	SH-426 PORTABLE TUB BENCH		ADA Compliant
AC-8	DWELLING UNITS WC	HEAVY DUTY SHOWER CURTAIN ROD	BOBRICK	B-6107	STAINLESS STEEL	60 in> Length
AC-9	DWELLING UNITS WC	TOWEL BAR 24 in.	BASCO	P1641P-24	STAINLESS STEEL	24 in. Length
AC-10	DWELLING UNITS WC	TOWEL BAR 18 in.	BASCO	P1641P-18	STAINLESS STEEL	18 in. Length
AC-11	STAFF ROOM	BENCH	PENCO	HEAVY DUTY HARDWOOD		ADA Compliant
AC-12	TENANT ACCESSORY FITNESS ROOM WC / STAFF ROOM WC	42 in. GRAB BAR	MOEN	8742	STAINLESS STEEL	42 in. Length
AC-13	TENANT ACCESSORY FITNESS ROOM WC / STAFF ROOM WC	MIRROR	BOBRICK	B-1662436	STAINLESS STEEL	
AC-14	TENANT ACCESSORY FITNESS ROOM WC / STAFF ROOM WC	TOILET PAPER DISPENSER	BOBRICK	B-4288		
AC-15	TENANT ACCESSORY FITNESS ROOM WC / STAFF ROOM WC	PAPER TOWEL DISPENSER WITH WASTE RECEPTACLE	BOBRICK	B-3949	STAINLESS STEEL	
AC-16	TENANT ACCESSORY FITNESS ROOM WC / STAFF ROOM WC	LAVATORY SOAP DISPENSER	BOBRICK	B-2111 W/400Z DISPENSER		

FINISH SCHEDULE - EXTERIOR WALL

FINISH MARK	FINISH MATERIAL	FINISH MANUFACTURER	FINISH COLOR	FINISH SIZE	-COMMENTS-
EX-AL	ALUMINUM	TBD	GUN METAL GREY	VARIES	WINDOW FRAMES
EX-BA	BRICK A	WATSONTOWN	60% ARLINGTON / 40% BRISTOL	4" X 16" NOM. EACH BRICK	EXTERIOR WALLS OF FACADE NORTH AND SOUTH
EX-BB	BRICK B	WATSONTOWN	40% ARLINGTON / 60% BRISTOL	4" X 16" NOM. EACH BRICK	EXTERIOR WALLS OF FACADE EAST AND WEST
EX-BC	BRICK C	WATSONTOWN	100% BRISTOL	4" X 16" NOM. EACH BRICK	BUILDING BASE, RECESSED WALL AND COPING
EX-BL STL	BLACKENED STEEL	TBD	BLACKENED STEEL	VARIES	WINDOW GUARDS
EX-NRG	INSULATED CMU	TBD	N/A	8" X 12" NOM.	TO BE BEHIND AND AT THE COMPLETE HEIGHT OF ADJACENT BUILDING, TYP
EX-OMEGA	INSULATED ALUMINUM PANEL	OMEGA PANEL PRODUCTS LAMINATORS INC	GUN METAL GREY TO MATCH EX-AL	1" INSULATED OMEGA PANEL	ALIGN BOTTOM WITH TOP OF WINDOW HEAD
EX-STL	STEEL	TBD		VARIES	GUARDRAIL

FINISH LEGEND

Finish Mark	Finish Material	Finish Manufacturer	Finish Name	Finish Size	Finish Color	Finish Manufacturer No.	Finish Legend Comments
CONC	CONCRETE SEALED	---		--	---	---	TYPICAL EXPOSED CONCRETE FLOOR
CTR	COUNTERTOP	CAESAR STONE	ICE SNOW	20MM	ICE SNOW	9141	KITCHENS
EXP	EXPOSED	---				---	EXPOSED WITHOUT FINISH TREATMENT
GWB	GYPSUM WALL BOARD	---	VARIES			---	REFER TO DETAILS AND SPECS
KKEPC-SF	KOVER KRACK ELASTOMERIC PATCHING COMPOUND SMOOTH FINISH						FOR EXPOSED PLANK CEILINGS IN APARTMENTS AND COMMON AREAS
MAT	WALK-OFF MAT	KADEE	5/8" STAINLESS STEEL GRATING	--	TBD	TBD	ENTRY VESTIBULES AT RES
PNL-1	PANEL - LAMINATE	FORMICA	WEATHERED ASH	--	WEATHERED ASH	8842-WR VANITY	DWELLING UNIT KITCHEN LOWER CABINETS/ BATHROOM VANITY
PNL-2	PANEL - LAMINATE	FORMICA	DOVER WHITE	--	DOVER WHITE	7197-58	DWELLING UNIT KITCHEN UPPER CABINETS
PNL-3	PANEL - MIRROR	TBD		--		TBD	TENANT ACCESSORY FITNESS
PNL-4	PANEL - MDF	TBD		1/2"		TBD	GROUND FLOOR ELEVATOR VESTIBULE
PTD-1	PAINT	BENJAMIN MOORE	WHITE	--		TBD	PUBLIC SPACES WALLS & CEILINGS
PTD-2	PAINT	BENJAMIN MOORE	EGGSHELL	--	OFF WHITE	2026-70	DWELLING UNIT WALLS
PTD-3	PAINT	BENJAMIN MOORE	STUART GOLD	--	MUSTARD	HC-10	STAIR A & STAIR B HAND RAIL
PTD-4	PAINT	BENJAMIN MOORE	EVENING DOVE	--	DARK BLUE	2128-30	STAIR A & STAIR B 6" CUM CENTER WALL
PTD-5	PAINT	BENJAMIN MOORE	STORMY MONDAY		WARM GRAY	2112-50	STAIR A & STAIR B 8" CMU WALLS
PTD-6	PAINT	BENJAMIN MOORE	SPACE BLACK		BLACK	2119-10	UNIT ENTRY DOOR, HEAD, JAMB & SILL
RBT	RUBBER TILE FLOORING	RUBBER FLOORING INC		3/8" THICK	BLACK (10% GREEN)	TBD	FITNESS ROOM FLOORING
SDL-1	STONE SADDLE	CAESAR STONE	JET BLACK			3100	SADDLES @ DU ENTRY DOOR AND TRASH DOOR
SDL-2	STONE SADDLE	GLASSOS	WHITE		CRYSTAL WHITE		SADDLES @ DU BATHROOM AND LAUNDRY CLOSET
TL-1	TILE - PORCELAIN	NEMO	BROOKLYN	4" x 12"	FORT GREENE	TBD	DWELLING UNIT BATHROOM FLOORING
TL-2	TILE - CERAMIC	NEMO	LINGOTTO LUCE	8" x 24"	PURE WHITE - GLOSS	TBD	DWELLING UNIT BATHROOM WALLS
TL-3	TILE - PORCELAIN	NEMO	BROOKLYN	12" x 24"	PARK SLOPE	TBD	TYPICAL CORRIDOR
TL-4	TILE - CERAMIC	NEMO	METRO SOLIDS	2" x 8"	WHITE GLOSS	TBD	DWELLING UNIT KITCHEN BACKSPLASH / TRASH ROOM WAINSCOTT
TL-5	TILE - PORCELAIN	NEMO	VOGUE SHADES	20"X20"	CHOCOLATE	SH011	ELEVATOR VESTIBULE & MAILBOX AREA WALLS - SEE A-800 FOR CUT TYPE
TL-6	TILE - PORCELAIN	NEMO	LOGICA	18"X18"	BEIGE	TBD	LOBBY FLOORING
TL-7	TILE - PORCELAIN	NEMO	LOGICA	18"X18"	MORO	TBD	CORRIDOR FLOORING
TL-8	TILE - PORCELAIN	NEMO	LOGICA	18"x18"	NERO	TBD	CORRIDOR FLOORING
TL-9	TILE - PORCELAIN	NEMO	BROOKLYN	4"X12"	PARK SLOPE	TBD	LOBBY AND TENANT LOUGE BASE BOARD
TL-10	TILE - PORCELAIN	NEMO	LOGICA	3.5"X18"	NERO	TBD	CORRIDOR BASE BOARD WITH BULLNOSE
TL-11	TILE - PORCELAIN	NEMO	LOGICA	3.5"X18"	BEIGE	TBD	LOBBY BASE BOARD WITH BULLNOSE
TL-12	TILE - PORCELAIN	NEMO	BROOKLYN	3"X24"	PARK SLOPE	TBD	W/D CLOSET BASE AND BATHROOM BASE WITH BULLNOSE
TL-13	TILE - PORCELAIN	NEMO	VOGUE SHADES	20"X20"	COOL GRAY - LIGHT	SH005	
WBD	WOOD BASEBOARD	---	---	1"x4"	TBD	---	PAINT TO MATCH ADJACENT WALL COLOR UON
WD	OAK - ENGINEERED PREFINISHED WOOD	KAHRS - TRES	RED OAK NATURE	4 1/4"	OAK		UNIT FLOORING, TYP

LIGHTING FIXTURE SCHEDULE

NO.	TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP	BALLAST	ENERGY STAR	WATTAGE	LUMENS PER WATT	COMMENTS
1	FA	UTILITY GRADE 48" PENDANT, SUSPENDED	SOVEREIGN	INDUSTRA-2C3-3-SC62-OSHA-WG	2X32W T8 LFL	ELECTRONIC	PARTNER	64	91.3	UTILITY/SERVICE/STORAGE ROOMS,
2	FB	48" LINEAR, VERTICAL WALL MTD	SOVEREIGN	STAIR-MISER-2C33-2B-MS	2X32W T8 LFL	ELECTRONIC	PARTNER	64	91.3	STAIRS - VERTICAL WALL MTD AT STAIR LANDINGS
3	FC	24" LINEAR SCONCE, HORIZ WALL MTD	LITHONIA	CYLINDER VANITY 11802RET5-BN	2X14W T5 LFL	ELECTRONIC	YES	28	70	UNIT BATHROOM - UL DAMP LISTED
4	FD	20" DIA. DOWNLIGHT, SURFACE MTD	SOVEREIGN	HALL-MISER01660LP-2C19-SC62-BN-EM/LED-MS	2X18W CFL	ELECTRONIC	YES	36	66.6	JANITOR CLOSET/ TRASH ROOMS/ TENANT WC
5	FE	36" LINEAR LIGHT, CEILING MTD	NEO-RAY	22DS STRAIGHT + NARROW	1x28W T5 LFL	ELECTRONIC	NO	28	54	KITCHEN TYPE K-A
6	FF	9"X9"DIA. DOWNLIGHT, SURFACE MTD	TECH LIGHTING	TL90 CEILING - LARGE	2X13W CFL	ELECTRONIC	NO	26	61.5	DWELLING UNIT ENTRY/HALL/KITCHEN
7	FG	6"X6" DOWNLIGHT, RECESSED	PHILIPS LIGHTOLIER SLIM SURFACE LED	S6S830K		ELECTRONIC	YES	9.5	630	LOBBY/ TENANT REC AREA
8	FH	48" LINEAR, RECESSED	SOVEREIGN	SLOTLINE-4099/T5-DURAC-OPAL-SC62-EM*/LED-RUN	1X28W T5 CFL	ELECTRONIC	DLC	28	103.6	CORRIDOR/ TENANT FITTNESS/ TENANT LOUNGE
9	FJ	WALL MOUNTED, ELEVATOR PIT	CREATIVE ILLUMINATIONS	QVW43F42EL-1C4-2	1X42W CFL	ELECTRONIC	PARTNER	42	71.4	ELEVATOR PIT
10	FK	EXT GRADE SCONCE, HIGH WALL MTD	ERCO	85110.000	1X12W LED	ELECTRONIC	NO	15		EXTERIOR WALL
11	FL	EXT GRADE, CEILING MTD	ERCO	84529.000	1X24W LED	ELECTRONIC	NO	30		EXTERIOR CEILING
12	FM	24" LINEAR, CEILING MTD	NEO-RAY	22DS STRAIGHT + NARROW	1x28W T5 LFL	ELECTRONIC	NO	28	54	LOBBY TRASH/RECYCLING ALCOVE
13	FN	INT 2'X2' ACT RECESSED, CEILING MTD	CORELITE	CLASS R2R RETROFIT LENSED	1 T5	CORELITE	NO			ALL ROOMS WITH ACT CEILINGS
14	FP	24" LINEAR, RECESSED	TECH LIGHTING	700BCLYNN-W-C-LED	1000K 120V	ELECTRONIC	NO	20	920	DWELLING UNIT BATHROOM - ABOVE MIRROR

5.0 PLUMBING FIXTURE SCHEDULE

TAG	ROOM/LOCATION	EQUIP USE	MANUFACTURE	MODEL	MODEL NO.	FINISH	COMMENTS
PL-2	ALL DWELLING UNIT KITCHENS	KITCHEN SINK	ELKAY	GOURMET	ELU2115PDBG	STAINLESS STEEL	Accessibility Depth Compliant, Under Mount, Single Basin
PL-1	ALL DWELLING UNIT KITCHENS/ KITCHENETTE	KITCHEN SINK FAUCET	DELTA	SINGLE HANDLE FAUCET	1959LF	CHROME	Accessibility Compliant, Single Handle, Deck Mount, Hose and Spray Handle
PL-3	ALL DWELLING UNITS WC	LAVATORY	AMERICAN STANDARD	BOULEVARD	0641.001	WHITE	Center hole
PL-4	ALL DWELLING UNITS WC	SHOWER KIT	MOEN		8389EP15	POLISHED CHROME	Accessibility Compliant, Single Handle Pressure Balancing Tub/shower With Stops, Haf Diverter Spout
PL-5	ALL DWELLING UNITS WC	HANDHELD SHOWER	SPEAKMAN	VERSATILE	VS-1001-ADA-PC	POLISHED CHROME	Accessibility Compliant, Combination Slide, Bar Grab Bar, Arm Mount Bracket, 60" Hole
PL-6	ALL DWELLING UNITS WC	SINGLE HOLE BATHROOM SINK FAUCET	KOHLER	JULY	K-16027	CHROME	Lever Handles; Single Hole Bathroom Sink Faucet
PL-7	ALL DWELLING UNITS WC	BATHTUB	AMERICAN STANDARD	PRINCETON	2391.202	WHITE	Accessibility Compliant "Americast" Tub
PL-8	ALL DWELLING UNITS WC	TUB DRAIN	GERBER	POP-UP BATH DRAIN	41.802	CHROME	
PL-9	ALL DWELLING UNITS WC	VALVE	MOEN		T8370	POLISHED CHROME	7" diameter, Accessibility compliant, alternative use for handheld shower 01-ADA-PC
PL-10	ALL KITCHENETTE	KITCHENETTE SINK	ELKAY	GOURMET	ELUHAD131655	STAINLESS STEEL	Accessibility Compliant, Uop Mount, Single Bowl
PL-11	ALL WC	TOILET SEAT	AMERICAN STANDARD	YORKVILLE FLOWISE RIGHT HEIGHT EL	5324.019	WHITE	
PL-12	ALL WC	TOILET	AMERICAN STANDARD	YORKVILLE FLOWISE RIGHT HEIGHT EL	2876.100	WHITE	Accessibility Compliant 17" AFF w Toilet Seat; Pressure Assist Floor Mounted Rear Outlet; Flush Control On Open Side
PL-13	COMPACTOR ROOM	SINK-MOP BASIN	FIAT		MSB3624	ENAMELED MOLDED STONE	24in X 36in, Square Mop Service Basin 10" Deep, Includes Quick Drawin Connector, Integral Stainless Steel Drain Assembly and Strainer Plate
PL-14	COMPACTOR ROOM	SERVICE SINK FAUCET	FIAT				
PL-15	FUTURE UFAS DWELLING UNIT WC	ACRYLIC SHROUD	AMERICAN STANDARD		0062.000EC	WHITE	Accessibility Compliant
PL-16	PUBLIC WC	WIDE SPREAD LAV FAUCET	KOHLER		K-15265-4-CP 8"	CHROME	Accessibility Compliant; Wide Spread Lavatory Faucet
PL-17	PUBLIC WC	WALL HUNG LAVATORY	AMERICAN STANDARD	COMRADE	0124.024	WHITE	
PL-18	TENANT ACCESSORY FITTNESS	DRINKING FAUCET	ELKAY		EMASM	STAINLESS STEEL	

5.0 EQUIPMENT KEY SCHEDULE

TAG	LEVEL	LOCATION	MODEL #	MANUFACTURER	PRODUCT DESCRIPTION	COLOR	COMMENTS
EQ-01	CELLAR TO 9TH	ALL KITCHENS	WRT359SFYM	WHIRLPOOL	30" REFRIGERATOR TOP FREEZER	BLACK	
EQ-02	GROUND TO 9TH	ALL 1 BED / 2BED / 3BED DWELLING UNITS	WDF310PAAS	WHIRLPOOL	24" DISHWASHER	BLACK	
EQ-03	GROUND TO 9TH	ALL STUDIO DWELLING UNITS	WDF518SAAM	WHIRLPOOL	18" DISHWASHER	BLACK	
EQ-04	GROUND TO 9TH	ALL DWELLING UNITS	WFG320M0BS	WHIRLPOOL	30" GAS RANGE	BLACK	
EQ-05	GROUND TO 9TH	ALL DWELLING UNITS	F403004	BROAN	30" HOOD - NO FAN	BLACK	
EQ-06	GROUND TO 9TH	ALL DWELLING UNITS	WAP24200UC	BOSCH	24" WASHER	WHITE	
EQ-07	GROUND TO 9TH	ALL DWELLING UNITS	WTB86200UC	BOSCH	24" DRYER	WHITE	
EQ-08	GROUND TO 9TH	ALL DWELLING UNITS	WTZ20410	BOSCH	STACKING UNIT	WHITE	
EQ-19	GROUND TO 9TH	ALL UFAS DESIGNATED DWELLING UNITS	HWD1600BW	HAIER	COMBINATION WASHER DRYER	WHITE	

NOTE:
1. ALL WALL PAINT TO BE EGGSHELL ENAMEL FINISH.
2. ALL PLAIN STACK CMU WALLS TO BE BLOCK FILLER AND PAINT.

DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED

OWNER ATHENA HOUSING ASSOCIATES LLC.

STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.

MEP ENGINEER EP ENGINEERING

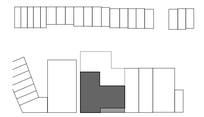
CODE CONSULTING DESIGN 2147

ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES

LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

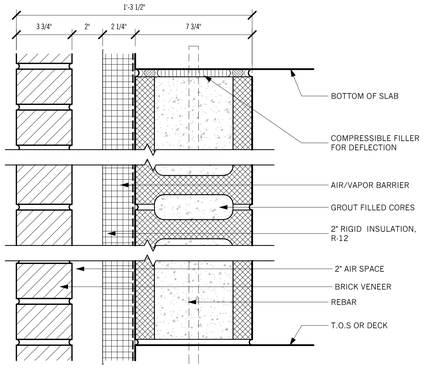
909 ATLANTIC AVE.
BROOKLYN, NY 11238

SCHEDULES

DRAWING #: A-010 00

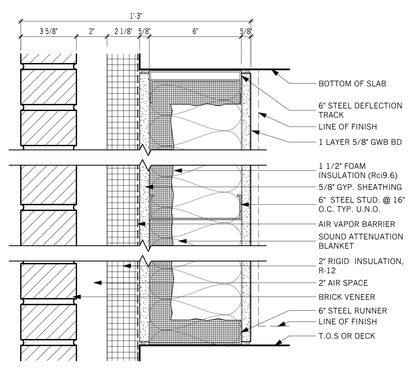
20 of 92

DOB ##### ZONE



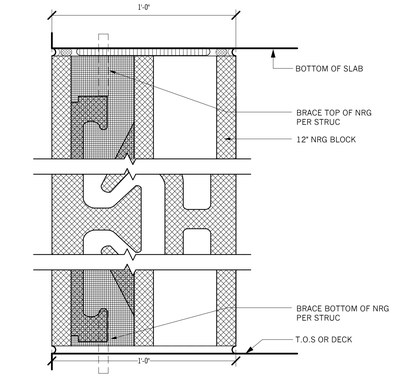
- SEE ENCLOSURE DETAILS FOR ADDITIONAL SYSTEM NOTES

EX1 TYPE EX1 BRICK/8" CMU
3" = 1'-0"



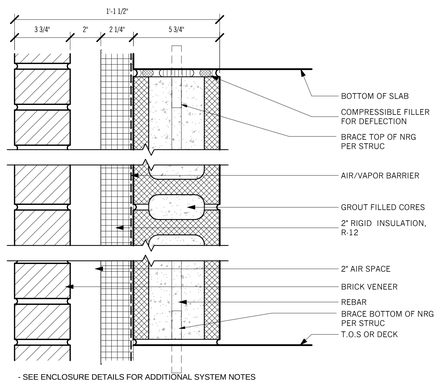
- SEE ENCLOSURE DETAILS FOR ADDITIONAL SYSTEM NOTES

EX2 TYPE EX2 BRICK/STUD1
3" = 1'-0"



- SEE ENCLOSURE DETAILS FOR ADDITIONAL SYSTEM NOTES

EX3 TYPE EX3 NRG1
3" = 1'-0"



- SEE ENCLOSURE DETAILS FOR ADDITIONAL SYSTEM NOTES

EX4 TYPE EX4 BRICK/6" CMU
3" = 1'-0"

GENERAL PARTITION NOTES

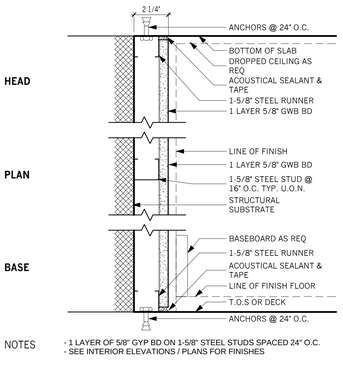
1. TYPICAL STUD DEFLECTION SHALL BE L/240.
2. PARTITIONS SHALL REST DIRECTLY UPON THE CONCRETE FLOOR CONSTRUCTION AND MAY EXTEND TO THE CONCRETE CONSTRUCTION OF THE FLOOR OR ROOF ABOVE.
3. INCREASE GAUGE THICKNESS OR DECREASE STUD SPACING AS REQUIRED TO MEET DEFLECTION CRITERIA AND WHERE LIMITING HEIGHTS ARE EXCEEDED.
4. PARTITIONS THAT RECEIVE TILE, GLASS, OR SUPPORT WALL HUNG EQUIPMENT SHALL HAVE A MAXIMUM DEFLECTION OF L/360.
5. FOR STEEL VERTICAL REINFORCING SPACING SEE STRUCTURAL DRAWINGS.
6. ALL PARTITIONS ARE CONSTRUCTED OF STUDS UNLESS DESIGNATED OTHERWISE.
7. ALL FIRE RATED PARTITIONS SHALL HAVE FIRE RATED TYPE 'X' GYP. WALL BD.
8. ALL TOILETS, MECHANICAL ROOMS, WET COLUMNS AND SIMILAR WET AREAS SHALL HAVE WATER RESISTANT GYP. BD..
9. ALL DRYWALL USED IN INTERIOR FURRING OF EXTERIOR WALL SHOULD BE MOISTURE & MOLD RESISTANT BOARD, TYPICAL.
10. PROVIDE CONTINUOUS 2-HOUR RATED SHAFT WALL AT ALL SLAB OPENINGS INCLUDING, BUT NOT LIMITED TO, ELEVATOR SHAFTS, DUCT SHAFTS, OPEN (NON-SLEEVED) PIPE CHASES AND AS INDICATED ON THE FLOOR PLANS.
11. PROVIDE CONTINUOUS 2-HOUR RATED WALL AT ALL STAIRS AND AS INDICATED ON FLOOR PLANS.
12. PROVIDE 2-HOUR HORIZONTAL SHAFT WALL FOR ALL SHAFTS THAT DO NOT CONTINUE TO THE NEXT LOWER LEVEL AND WHERE SHAFT WALL DOES NOT ALIGN FROM FLOOR TO FLOOR.
13. PROVIDE CONTINUOUS 2-HOUR RATED SHAFT WALL AT TRASH CHUTE.
14. ALL WOOD USED IN PARTITIONS SHALL BE FIRE RETARDANT TREATED.
15. FOR STUD SIZES AT EXTERIOR WALLS SEE EXTERIOR WALL SECTIONS AND DETAILS.
16. SEE FIRE SEPARATION & EGRESS PLANS FOR EXTENT OF FIRE RATED PARTITIONS.
17. PROVIDE NECESSARY BACKING FOR ALL WALL MOUNTED ITEMS INDICATED ON FLOOR PLANS, ELEVATIONS, AND IN SPECIFICATIONS.
18. GC TO COORDINATE APPLICATION OF CONTINUOUS INSULATION & VAPOR BARRIER, TYPICAL.
19. VERIFY CONTINUITY OF ALL FIRE RATED ASSEMBLIES.
20. ALL DRYWALL PARTITIONS, FURRING AND SOFFITS IN AN EXTERIOR ENVIRONMENT SHALL RECEIVE 5/8" DENSE SHIELD. FIREGUARD (TYPE 'X' WHERE SCHEDULED), FINISH BOARD, WITH A SUBLAYER OF 5/8" DENSE ARMOR PLUS FIREGUARD C, WHERE REQUIRED TO MEET FIRE RATINGS. SEE PLANS.
21. ALL WALL TYPES TO PERFORM TO UL DESIGNATION IN COMPLIANCE WITH B.C. 720 1(2)

INTERIOR PARTITION NOTES:

1. FIRE-RATED PARTITIONS ARE IDENTIFIED ON FLOOR PLANS (SEE APPROPRIATE LEGENDS)
2. FIRE OR SMOKE RATED PARTITIONS SHALL BE CONTINUOUS FROM FLOOR PLANK TO UNDERSIDE OF STRUCTURE ABOVE
3. ALL OPENINGS (DOORS) AND PENETRATIONS (DUCTS, PIPES) SHALL BE RATED TO MAINTAIN THAT PARTITION'S RATING
4. FIRE OR SMOKE RATED PARTITIONS SHALL BE UL LABELED OR HAVE THE APPROPRIATE MEA OR BSA NUMBER, AND SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS
5. ALL GWB FIRECODE 'X' TO COMPLY W/ ASTM C-36
6. AT FIRE-RATED WALLS WHERE AN STC RATING IS REQUIRED, APPLY FIRESTOP SEALANT PRIOR TO ACOUSTICAL SEALANT
7. WALL BOARD TO BE GLASS-MAT, WATER-RESISTANT TILE BACKING BOARD ALL CERAMIC WALL TILE. PROVIDE 5/8" BACKER BOARD AT THREE WALL SURROUNDING BATHTUB BULL HEIGHT. TILE BACKER BOARD TO BE FIRE RATED AT FIRE RATED PARTITIONS
8. OUTER LAYER OF GWB TO BE WATER RESISTANT @ BATHROOMS, KITCHENS & JANITOR'S CLOSETS OR WHERE WATER IS USED
9. SPACE STL STUDS 12" O.C. @ KITCHEN CABINET LOCATIONS AND PROVIDE BLOCKING OR STEEL PLATE FOR BASE & WALL CABINETS AS REQ'D
10. PROVIDE 6" STEEL STUD PARTITION @ ELECTRIC PANEL LOCATION
11. AT NON-BEARING CMU, PROVIDE CONT. 1/2" THICK PRE-MOLDED COMPRESSIBLE FILLER UNDERNEATH PLANK (1" NARROWER THAN CMU WIDTH)
12. PROVIDE SEALANT AND BACKER ROD AT ALL SOFT JOINTS

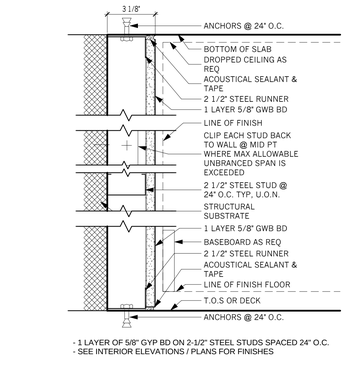
MASONRY REINFORCEMENT NOTES:

1. SEE STRUCTURAL DRAWINGS FOR BEARING WALL AND TYPICAL REINFORCEMENT NOTES AND DETAILS.
2. PROVIDE HORIZONTAL JOINT REINFORCEMENT 16" OC VERTICALLY TYPICAL AND 8" OC VERTICALLY AT PARAPETS.
3. PROVIDE #4 REBAR FULL HEIGHT 8' OC (4' OC AT PARTITIONS GREATER THAN 8' HIGH) AND AT ENDS OF WALLS AND AT BOTH SIDES OF OPENINGS.
4. FULLY GROUT ALL CONCRETE MASONRY UNIT CELLS RECEIVING VERTICAL REINFORCEMENT.
5. PROVIDE TOP ANCHORS (SEISMIC CLIPS) 4' OC TYP EXCEPT WITHIN 4' OF 90 DEGREE PARTITION INTERSECTIONS.
6. PROVIDE SOFT JOINT WITH COMPRESSIBLE FILLER AND SEALANT BOTH SIDES AT TOP OF NON-BEARING PARTITIONS.
7. PROVIDE SEISMIC CLIPS AT ALL CMU WALLS, SPACED 4' MAX. ON CENTER, EXCEPT CLIPS ARE NOT REQ'D WITHIN 8' MAX. OF A CMU CORNER, TEE, OR RETURN.



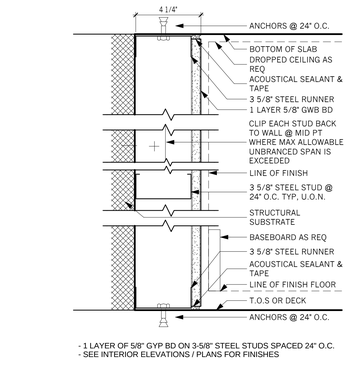
NOTES
- MASONRY WALLS UP TO 14' VERTICAL SPAN.
- SEE INTERIOR ELEVATIONS / PLANS FOR FINISHES

X6 2 HR - UL 906 - 6" CONC MASONRY WALL
3" = 1'-0"



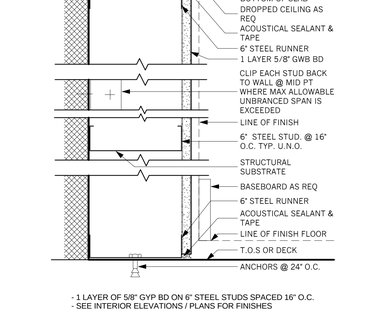
- MASONRY WALLS UP TO 14' VERTICAL SPAN.
- SEE INTERIOR ELEVATIONS / PLANS FOR FINISHES

X8 3 HR - UL905 - 8" CONC MASONRY WALL
3" = 1'-0"



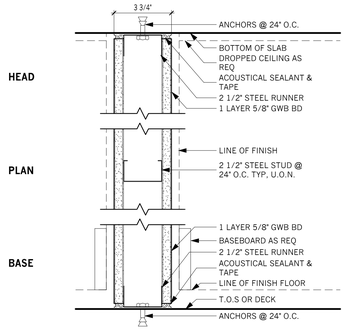
- MASONRY WALLS UP TO 14' VERTICAL SPAN.
- SEE INTERIOR ELEVATIONS / PLANS FOR FINISHES

X10 4 HR - UL907 - 10" CONC MASONRY WALL
3" = 1'-0"



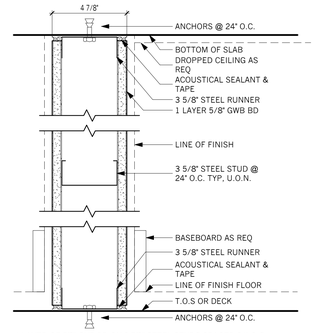
- SEE INTERIOR ELEVATIONS & PLANS FOR FINISHES

C CAST-IN-PLACE CONCRETE
3" = 1'-0"



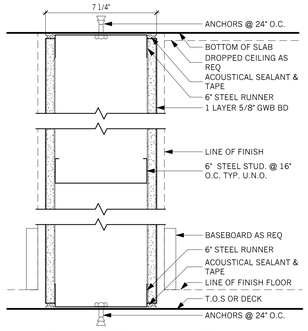
NOTES
- 1 LAYER OF 5/8" GYP BD ON 2-1/2" STEEL STUDS SPACED 24" O.C.
- ALL NOTES REFER TO BOTH SIDES OF THE PARTITION, U.O.N.
- INTERIOR PARTITIONS WITHIN APARTMENTS TO STOP 3" ABOVE FINISHED CEILING FOR PLENUM. GWB MUST BE IN PLACE AND FIRST COAT OF SPACKLE APPLIED BEFORE HUNG CEILINGS ARE ERECTED.
- NON-RATED.
- SEE INTERIOR ELEVATIONS / PLANS FOR FINISHES

121 NR - 39 STC - INT. PARTITION WITHIN APT
3" = 1'-0"



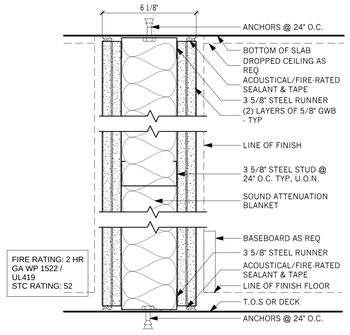
- 1 LAYER OF 5/8" GYP BD ON 3-5/8" STEEL STUDS SPACED 24" O.C.
- ALL NOTES REFER TO BOTH SIDES OF THE PARTITION, U.O.N.
- INTERIOR PARTITIONS WITHIN APARTMENTS TO STOP 3" ABOVE FINISHED CEILING FOR PLENUM. GWB MUST BE IN PLACE AND FIRST COAT OF SPACKLE APPLIED BEFORE HUNG CEILINGS ARE ERECTED.
- NON-RATED.
- SEE INTERIOR ELEVATIONS / PLANS FOR FINISHES

131 NR PARTITION @ ELEC PANEL/NID BOX
3" = 1'-0"



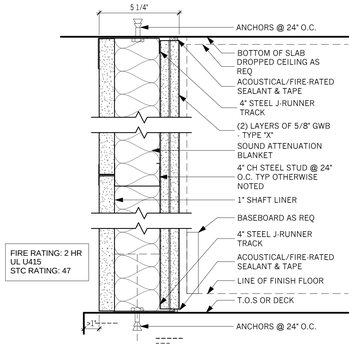
- 1 LAYER OF 5/8" GYP BD ON 6" STEEL STUDS SPACED 16" O.C.
- ALL NOTES REFER TO BOTH SIDES OF THE PARTITION, U.O.N.
- INTERIOR PARTITIONS WITHIN APARTMENTS TO STOP 3" ABOVE FINISHED CEILING FOR PLENUM. GWB MUST BE IN PLACE AND FIRST COAT OF SPACKLE APPLIED BEFORE HUNG CEILINGS ARE ERECTED.
- NON-RATED.
- SEE INTERIOR ELEVATIONS / PLANS FOR FINISHES

161 NR PARTITION @ PIPE CHASE WITHIN APT
3" = 1'-0"



- 2 LAYERS OF 5/8" GYP BD ON 3-5/8" STEEL STUDS SPACED 24" O.C.
- ALL NOTES REFER TO BOTH SIDES OF THE PARTITION, U.O.N.
- SEE INTERIOR ELEVATIONS / PLANS FOR FINISHES

232R 2-HR PARTITION BTWN APT & CORRIDOR
3" = 1'-0"



- SEE INTERIOR ELEVATIONS / PLANS FOR FINISHES

S4 2-HR MECH & PIPE CHASE
3" = 1'-0"

NOTES
- 1 LAYER OF 5/8" GYP BD ON 1-5/8" STEEL STUDS SPACED 24" O.C.
- SEE INTERIOR ELEVATIONS / PLANS FOR FINISHES

F11 2-1/4" WALL FURRING
3" = 1'-0"

- 1 LAYER OF 5/8" GYP BD ON 2-1/2" STEEL STUDS SPACED 24" O.C.
- SEE INTERIOR ELEVATIONS / PLANS FOR FINISHES

F21 3-1/8" FREE STANDING WALL FURRING
3" = 1'-0"

- 1 LAYER OF 5/8" GYP BD ON 3-5/8" STEEL STUDS SPACED 24" O.C.
- SEE INTERIOR ELEVATIONS / PLANS FOR FINISHES

F31 4-1/4" FREE STANDING WALL FURRING
3" = 1'-0"

- 1 LAYER OF 5/8" GYP BD ON 6" STEEL STUDS SPACED 16" O.C.
- SEE INTERIOR ELEVATIONS / PLANS FOR FINISHES

F61 6-5/8" FREE STANDING WALL FURRING
3" = 1'-0"

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STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.

MEP ENGINEER EP ENGINEERING

CODE CONSULTING DESIGN 2147

ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES

LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
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2	07.31.2015	ISSUED FOR 50% DD
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7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

PARTITION TYPES

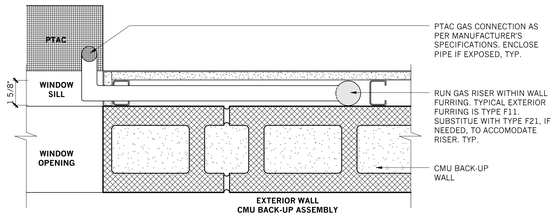
REGISTERED ARCHITECT JONATHAN JOSHUA MARVEL No. 021480 STATE OF NEW YORK

DRAWING #: A-020 00

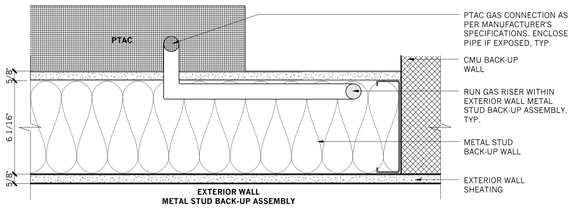
21 of 92

DOB STAMP ZONE

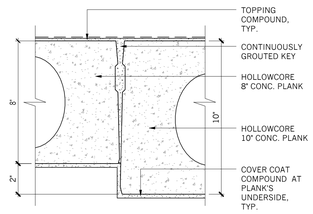
DOB ##### ZONE



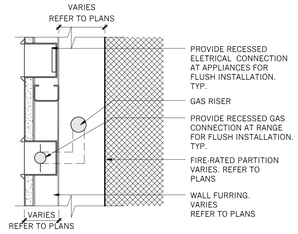
33 TYPICAL CMU BACK-UP WALL PTAC GAS RISER & CONNECTION PLAN
3"=1'-0"



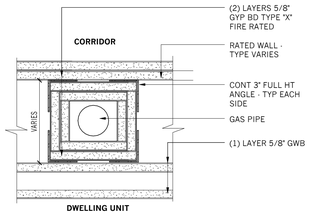
32 TYPICAL METAL STUD BACK-UP WALL PTAC GAS RISER & CONNECTION PLAN
3"=1'-0"



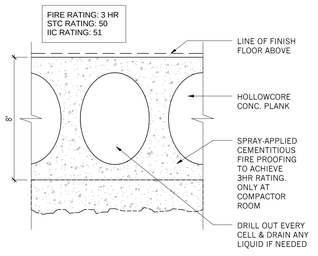
31 8" TO 10" PRECAST CONCRETE SLAB TRANSITION
3"=1'-0"



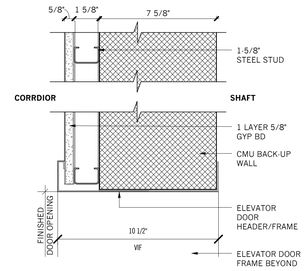
30 GAS/ELECTRICAL APPL. CONNECTION AT NR PARTITIONS WITHIN APTS.
3"=1'-0"



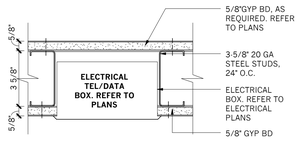
29 SHAFTWALL GAS RISER DETAIL
3"=1'-0"



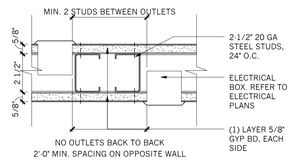
28 3-HR RATED PRECAST CONCRETE PLANK AT COMPACTOR ROOM SECTION
3"=1'-0"



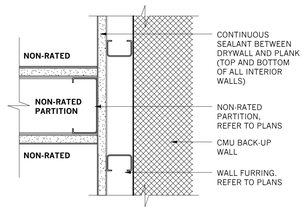
27 ELEVATOR SHAFTWALL DOOR HEAD/JAMB - SECTION
3"=1'-0"



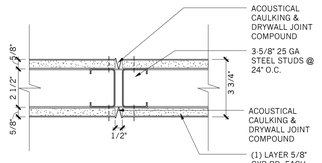
26 NON-RATED INTERIOR PARTITION TYPE 131 @ ELEC. PANEL & NID BOX
3"=1'-0"



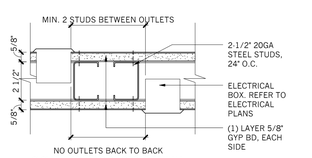
25 NON-RATED INTERIOR PARTITION TYPE 121 PLAN
3"=1'-0"



24 INTERIOR NON-RATED PARTITIONS WITHIN APARTMENTS
3"=1'-0"



23 NON-RATED INTERIOR PARTITION CONTROL JOINT
3"=1'-0"



22 NON-RATED INTERIOR PARTITION TYPE 121 PLAN
3"=1'-0"

21 F11 WALL FURRING TYPICAL ELECTRICAL BOXES PLAN
3"=1'-0"

20 PRECAST CONCRETE PLANK FIRESTOP
3"=1'-0"

19 2 HR RATED PARTITION FIRESTOP PLAN
3"=1'-0"

18 2 HR PARTITION TYPE 232R & CMU EXTERIOR WALL INTERSECTION PLAN
3"=1'-0"

17 2 HR PARTITION TYPE 232R & STUD EXTERIOR WALL INTERSECTION PLAN
3"=1'-0"

16 2 HR RATED PARTITION TYPE 232R & STAIR CMU WALL INTERSECTION PLAN
3"=1'-0"

15 2 HR RATED PARTITION TYPE 232R CORNER DETAIL PLAN
3"=1'-0"

14 2 HR RATED PARTITION TYPE 232R & CMU WALL INTERSECTION PLAN
3"=1'-0"

13 2 HR RATED PARTITION TYPE 232R ELECTRICAL BOXES PLAN
3"=1'-0"

12 2 HR RATED PARTITION TYPE 232R CONTROL JOINT PLAN
3"=1'-0"

11 2 HR RATED PARTITION TYPE 232R UL U419 / STC 53
3"=1'-0"

10 SHAFTWALL INSIDE CORNER DETAIL PLAN
3"=1'-0"

9 SHAFTWALL OUTSIDE CORNER DETAIL PLAN
3"=1'-0"

8 SHAFTWALL WALL JUNCTION - PLAN
3"=1'-0"

7 SHAFTWALL CONTROL JOINT
3"=1'-0"

6 SHAFTWALL ELECTRICAL BOXES PLAN
3"=1'-0"

5 SHAFTWALL 2HR RATED HEAD SECTION
3"=1'-0"

4 SHAFTWALL OPENING PENETRATION SECTION/PLAN
3"=1'-0"

3 SHAFTWALL 2HR RATED BASE SECTION
3"=1'-0"

2 SHAFTWALL 2HR RATED HEAD SECTION
3"=1'-0"

1 SHAFTWALL 2HR RATED PARTITION PLAN
3"=1'-0"

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MEP ENGINEER EP ENGINEERING
CODE CONSULTING DESIGN 2147
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LANDSCAPE ABEL BAINNSON BUTZ, LLP

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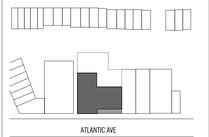
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

TYP GWB DETAILS

REGISTERED ARCHITECT JONATHAN JOHN MARVEL No. 021460 STATE OF NEW YORK

DRAWING #: A-021.00
22 of 92

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1/29/2016 4:22:00 PM

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CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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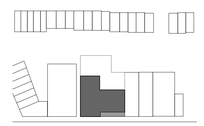
100%CD 01.29.2016



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MA PROJECT NO. 1505

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BROOKLYN, NY 11238

TYP GWB DETAILS

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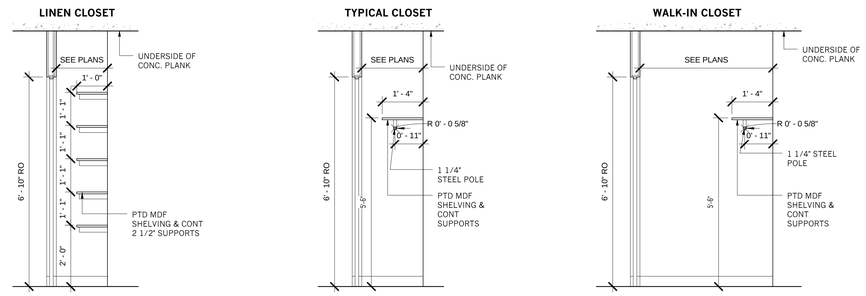
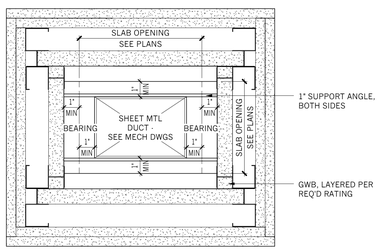
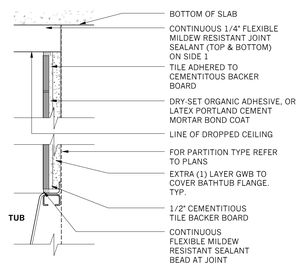
13 CLOSET TYPES
1/2"=1'-0"



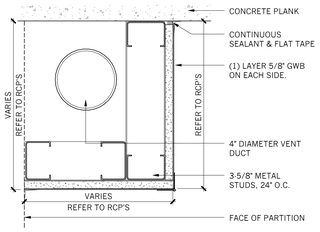
12 SHAFT PENETRATION
3"=1'-0"



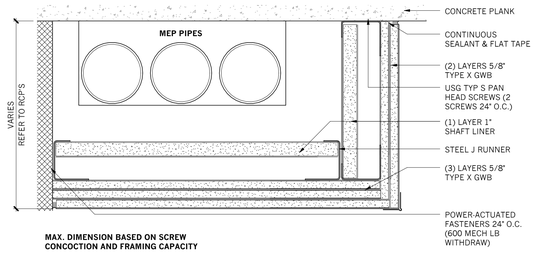
11 SECTION OF RECESSED BATHTUB
3"=1'-0"



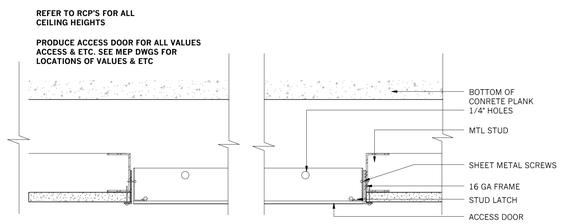
10 NON RATED SOFFIT AT VENT DUCT
3"=1'-0"



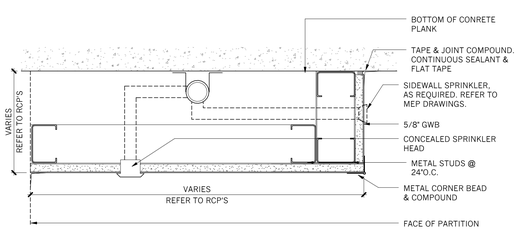
9 2 HOUR RATED BSA # 893.47 SM TYP. PIPES FIREPROOFING- DETAIL AT HORIZONTAL OFFSETS
3"=1'-0"



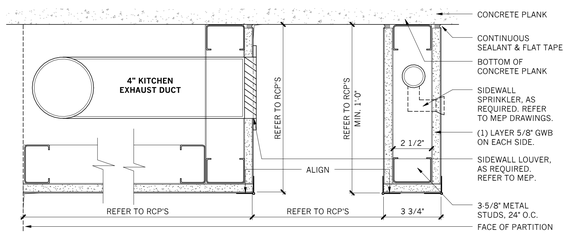
8 DETAIL @ GWB CEILING/ACCESS PANEL
3"=1'-0"



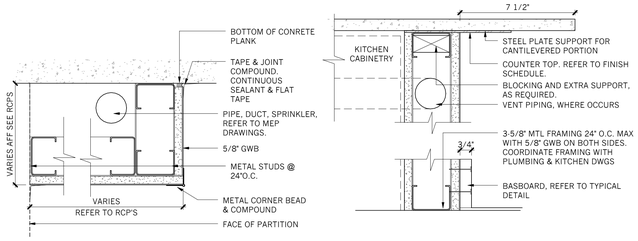
7 NON-RATED DROP SOFFIT
3"=1'-0"



6 SMOKE BAFFLE (SMOKE ARCH)
3"=1'-0"

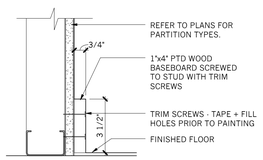


5 TYPICAL SOFFIT
3"=1'-0"

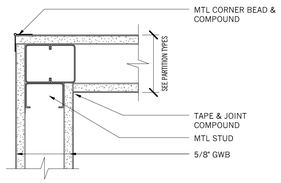


4 KITCHEN ISLAND COUNTERTOP OVERHANG DETAIL
3"=1'-0"

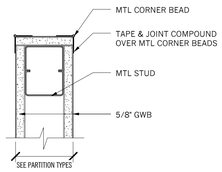
3 TYP WOOD BASEBOARD
3"=1'-0"



2 NON-RATED PARTITION CORNER
3"=1'-0"

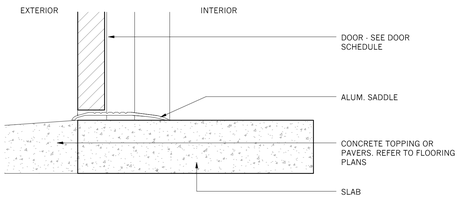


1 TRIMMED OPENING PLAN
3"=1'-0"

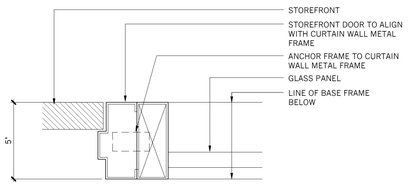


GENERAL DOOR NOTES

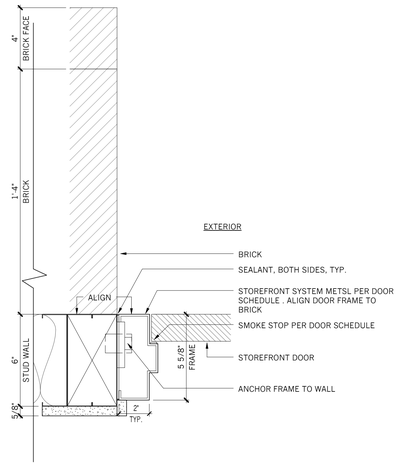
1. ALUMINUM FRAMED ENTRANCES & STOREFRONTS SHALL BE U-0.70.
2. ALL OTHER ENTRANCE DOORS SHALL BE U-0.85.
3. PROVIDE WEATHERSTRIPPING AT ALL DOORS.
   - BETWEEN APARTMENTS & CORRIDORS,
   - BETWEEN CORRIDORS & STAIRWELLS,
   - TO THE EXTERIOR,
   - BETWEEN CORRIDORS & REFUSE ROOMS,
   - LEADING TO MECHANICAL OR UTILITY ROOMS.
4. ALL DOOR HARDWARE SHALL BE LOCATED AT 40" A.F.F. U.O.N.
5. ALL DOORS LOCATED WITHIN A WINDOW WALL SYSTEM SHALL BE FABRICATED BY THE WINDOW WALL MANUFACTURER WITH FINISH TO MATCH THE SURROUNDING WINDOW WALL SYSTEM.
6. PANIC BAR LOCKING MECHANISMS SHALL BE CONCEALED & NOT SURFACE MOUNTED.
7. BOTTOM 10" OF DOOR TO BE SMOOTH PER ANSI A117.1, SECTION 404.2.10.
8. THRESHOLDS, TRANSITIONS AND LEVEL CHANGES MUST NOT EXCEED ½ INCH IN HEIGHT WITH A BEVEL OF NO MORE THAN 1:2. UNBEVELED LEVEL CHANGES MUST NOT EXCEED ¼ INCH IN HEIGHT.
   WIDTH OF SADDLE TO ALIGN WITH THE FULL WIDTH OF FRAME AT APARTMENT BATHROOMS AND PUBLIC RESTROOMS. 4" AT ALL OTHER LOCATIONS
9. FRAME AT SADDLE LOCATIONS TO START AT 1/8" ABOVE SADDLE. CAULK GAP AS REQUIRED
10. DOOR AT BATHROOM TO HAVE A 3/8" UNDERCUT ABOVE SADDLE
11. APT-CORRIDOR DOORS AND ALL EXTERIOR DOORS TO HAVE CONTINUOUS PERIMETER SEALS AT FRAMES AND BOTTOM SWEEPS AT BOTTOM TO FORM A CONTINOUS SEAL.
12. STONE SADDLE IS TO BE SAME WIDTH AS DOOR FRAME IN ALL CASES, TYP.
13. PROVIDE PAINT BREAKS AT ALL APARTMENT ENTRY DOORS
14. SWEEP TO BE ONLY AT ALL APARTMENT ENTRANCES DOORS



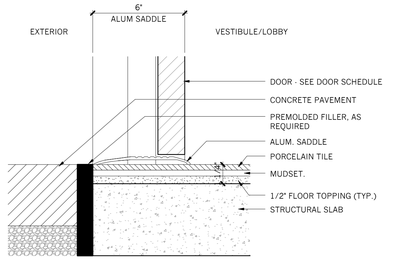
20 THRESHOLD @ CONCRETE + ALUM. SADDLE + CONCRETE
3"=1'-0"
RETAIL ENTRY DOOR
BUILDING BACK YARD ACCESS DOOR



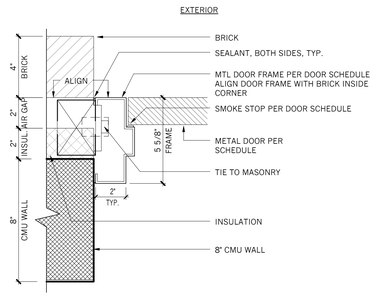
19 HM JAMB/HEAD @ CURTAIN WALL
3"=1'-0"



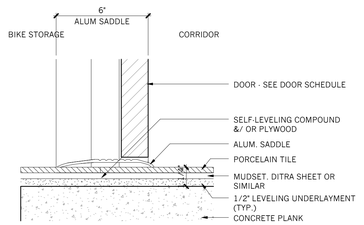
18 HM JAMB @ BUILDING ENTRY DOORS
3"=1'-0"



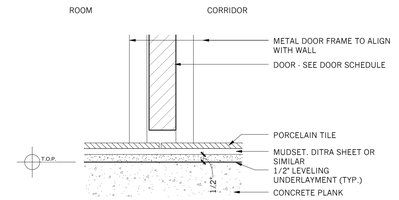
17 THRESHOLD - TILE + ALUM. SADDLE + CONCRETE PAVEMENT
3"=1'-0"
RETAIL ENTRY DOOR HAS EXPOSED CONCRETE FLOOR.
BUILDING ENTRY DOOR HAS PORCELAIN TILES



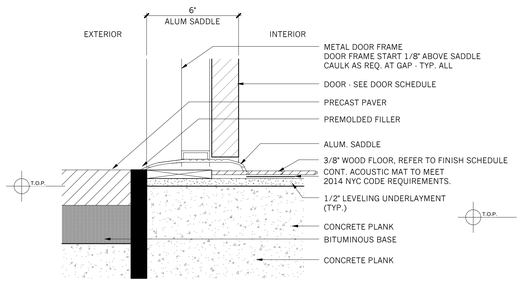
16 HM JAMB @ ROOF FLOOR - EGRESS STAIR AND BUILDING PATIO DOORS
3"=1'-0"



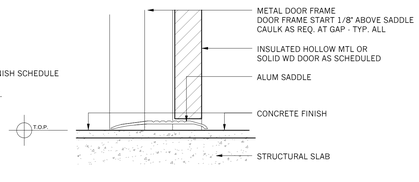
15 THRESHOLD - TILE + ALUM. SADDLE + TILE
3"=1'-0"
BIKE STORAGE



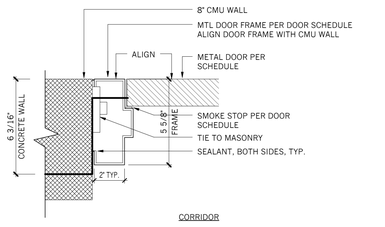
14 THRESHOLD - TILE + NO SADDLE + TILE
3"=1'-0"
JANITOR ROOM
STORAGE
ELECTRIC ROOM



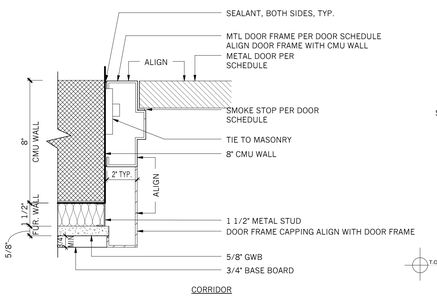
13 THRESHOLD - WOOD + ALUM. SADDLE + CONCRETE PAVERS
3"=1'-0"



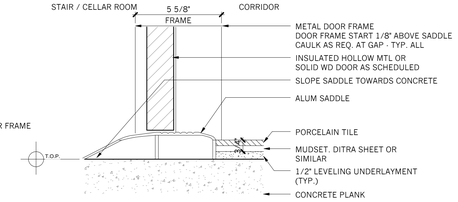
12 THRESHOLD @ UTILITY DOOR - CONCRETE + ALUM. SADDLE + CONCRETE
3"=1'-0"
CELLAR UTILITY ROOMS



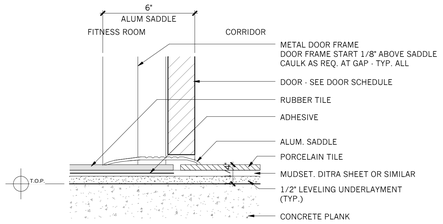
11 HM JAMB @ CELLAR - CMU WALL
3"=1'-0"



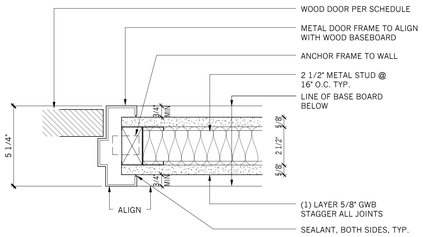
10 HM JAMB @ CELLAR - CMU WALL WITH ONE SIDE FURRING WALL
3"=1'-0"



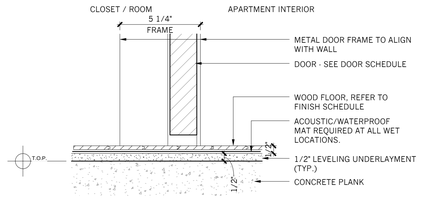
9 THRESHOLD - CONCRETE + ALUM. SADDLE + TILE
3"=1'-0"
STAIR
CELLAR UTILITY ROOMS



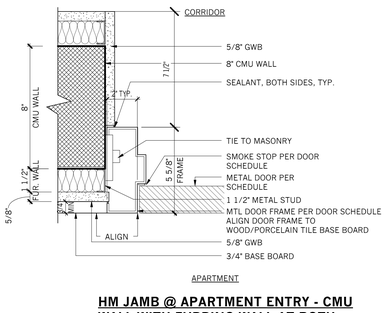
8 THRESHOLD - TILE + ALUM. SADDLE + RUBBER TILE
3"=1'-0"
TENANT ACCESSORY FITNESS ROOM ENTRY DOOR
TENANT ACCESSORY FITNESS W/C



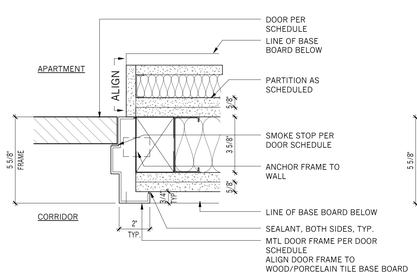
7 HM JAMB/HEAD @ DU MTL STUD PARTITIONS
3"=1'-0"



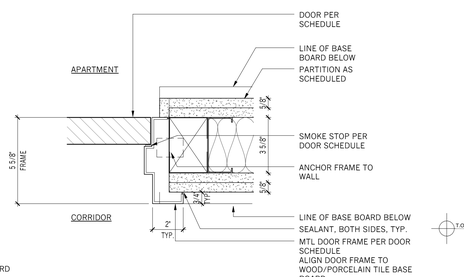
6 THRESHOLD @ RESIDENTIAL UNITS - WOOD + NO SADDLE + WOOD
3"=1'-0"
APARTMENT CLOSETS
APARTMENT ROOMS



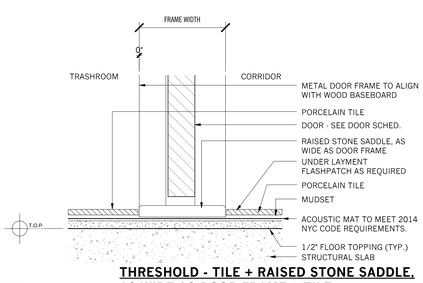
5 HM JAMB @ APARTMENT ENTRY - CMU WALL WITH FURRING WALL AT BOTH SIDES
3"=1'-0"



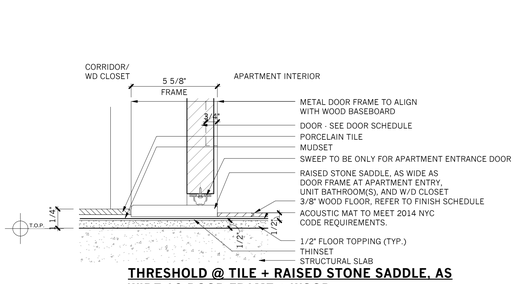
4 HM JAMB @ APT ENTRY - UNITS B
3"=1'-0"



3 HM JAMB @ APT ENTRY - 2 HR RATED PARTITION
3"=1'-0"



2 THRESHOLD - TILE + RAISED STONE SADDLE, AS WIDE AS DOOR FRAME + TILE
3"=1'-0"
TRASHROOMS
BATHROOMS



1 THRESHOLD @ TILE + RAISED STONE SADDLE, AS WIDE AS DOOR FRAME + WOOD
3"=1'-0"
APARTMENT ENTRY
APARTMENT BATHROOM
W/D CLOSET

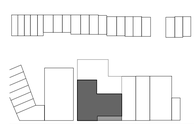
DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED
OWNER ATHENA HOUSING ASSOCIATES LLC.
STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.
MEP ENGINEER EP ENGINEERING
CODE CONSULTING DESIGN 2147
ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES
LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

DOOR DETAILS

REGISTERED ARCHITECT
JONATHAN JOSEPH MARVEL
026760
STATE OF NEW YORK

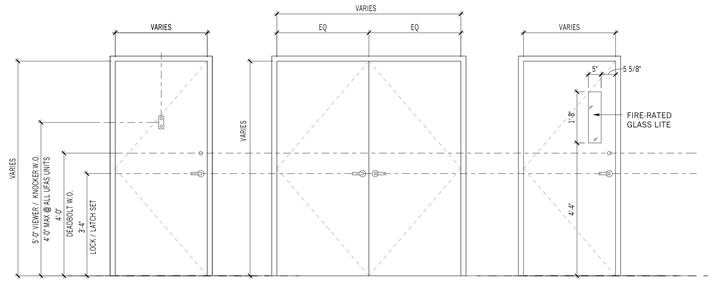
DRAWING #: A-023 00

24 of 92

DOB ##### ZONE

1/29/2016 4:22:10 PM

TYPE A



A1

METAL - HOLLOW
1 3/4" THICK
FLUSH
HOLLOW 2" METAL FRAME

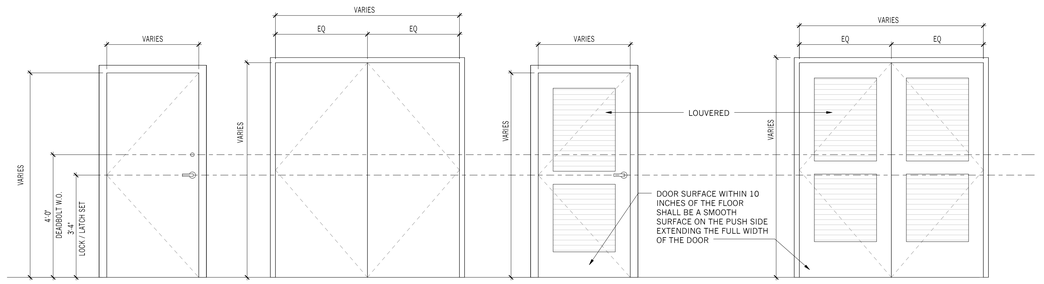
A2

METAL - HOLLOW
1 3/4" THICK
FLUSH
HOLLOW 2" METAL FRAME

A3

METAL - HOLLOW W/ GLASS PANEL
1 3/4" THICK
FLUSH
HOLLOW 2" METAL FRAME

TYPE B



B1

DU DOORS: WOOD - SOLID CORE
CLOSETS: WOOD - HOLLOW CORE
1 3/8" THICK
FLUSH
SOLID CORE
MDF VENEER
HOLLOW 2" METAL FRAME

B2

WOOD - HOLLOW CORE
1 3/8" THICK
FLUSH
SOLID CORE
MDF VENEER
HOLLOW 2" METAL FRAME

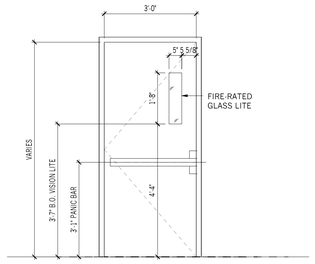
B3

WOOD - HOLLOW CORE (LOUVERED)
1 3/8" THICK
FLUSH
HOLLOW CORE
MDF VENEER
HOLLOW 2" METAL FRAME

B4

WOOD - HOLLOW CORE (LOUVERED)
1 3/8" THICK
FLUSH
SOLID CORE
MDF VENEER
HOLLOW 2" METAL FRAME

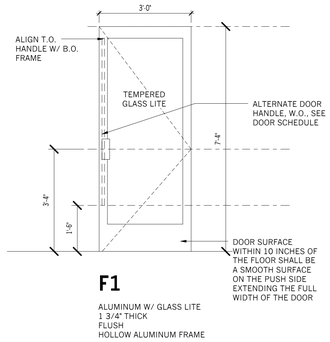
TYPE E



E1

METAL - HOLLOW W/ GLASS LITE
1 3/4" THICK
FLUSH
HOLLOW 2" METAL FRAME
90 MIN. FIRE-RATED

TYPE F



F1

ALUMINUM W/ GLASS LITE
1 3/4" THICK
FLUSH
HOLLOW ALUMINUM FRAME

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14. SWEEP TO BE ONLY AT ALL APARTMENT ENTRANCES DOORS

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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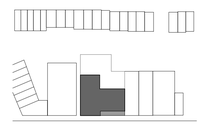
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

DOOR TYPES

DRAWING #: A-040 00

25 of 92

DOB STAMP ZONE

DOB ##### ZONE

1/29/2016 4:22:12 PM

Door Schedule · Cellar

Door #	Door Type	Material	Finish	Thickness	Width	Height	Frame Type	Head/Jamb	Threshold	Hardware Code	Fire Rating	Elec Strike	Door Contact	Card Access	Comments
CELLAR															
C01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	11 / A-23	12 / A-23	1	90 min				MTL - HOLLOW FRAME
C02	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	11 / A-23	12 / A-23	1	90 min				MTL - HOLLOW FRAME
C03	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	8 / A-23	5	90 min			X	MTL - HOLLOW FRAME
C04	A3	AL/GL	PTD-4	0' - 1 3/4"	3' - 0"	6' - 10 1/4"	MTL	18 / A-23	17 / A-23	21	N/A		X	X	ALUMINUM - W/ GLASS LITE
C05	A3	AL/GL	PTD-4	0' - 1 3/4"	3' - 0"	6' - 10 1/4"	MTL	19 / A-23	15 / A-23	21	N/A			X	ALUMINUM - W/ GLASS LITE
C06	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	11 / A-23	12 / A-23	9	90 min				MTL - HOLLOW FRAME W/ GL-PNL
C07	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	12 / A-23	5	90 min			X	MTL - HOLLOW FRAME SEE NOTE 1
C08	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	12 / A-23	5	90 min				MTL - HOLLOW FRAME
C09	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	11 / A-23	12 / A-23	1	90 min				MTL - HOLLOW FRAME
C10	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	2 / A-23	4	N/A				WOOD - HOLLOW CORE
C11	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	11 / A-23	12 / A-23	1	90 min				MTL - HOLLOW FRAME
C12	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	10 / A-23	9 / A-23	9	90 min				MTL - HOLLOW FRAME W/ GL-PNL
C13	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	12 / A-23	3	N/A				WOOD - SOLID CORE
C14	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	11 / A-23	12 / A-23	1	90 min				MTL - HOLLOW FRAME
C15	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	2 / A-23	4	N/A				WOOD - HOLLOW CORE
C16	A3	AL/GL	PTD-4	0' - 1 3/4"	3' - 0 1/8"	7' - 1 1/2"	MTL	19 / A-23	13 / A-23	21	N/A		X	X	ALUMINUM - W/ GLASS LITE
C17	A3	WD	PTD-2	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	7 / A-23	9 / A-23	4	90 min				WOOD - HOLLOW CORE
C18	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	2 / A-23	3	N/A				WOOD - SOLID CORE
C19	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	11 / A-23	12 / A-23	1	90 min				MTL - HOLLOW FRAME SEE NOTE 1
C20	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	9 / A-23	5	90 min				MTL - HOLLOW FRAME
C21	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	10 / A-23	12 / A-23	3	N/A				WOOD - SOLID CORE
C22	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	10 / A-23	9 / A-23	1	90 min				MTL - HOLLOW FRAME
C23	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	11 / A-23	12 / A-23	3	N/A				WOOD - SOLID CORE SEE NOTE 1
C24	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	12 / A-23	5	90 min				MTL - HOLLOW FRAME
C25	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	12 / A-23	3	N/A				WOOD - SOLID CORE
C26	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	11 / A-23	12 / A-23	1	90 min				MTL - HOLLOW FRAME
C27	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL		12 / A-23	1	90 min				MTL - HOLLOW FRAME

Door Schedule · Level 1

Door #	Door Type	Material	Finish	Thickness	Width	Height	Frame Type	Head/Jamb	Threshold	Hardware Code	Fire Rating	Elec Strike	Door Contact	Card Access	Comments
GROUND FLOOR															
1A01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
1A02	B3	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
1A03	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
1A04	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
1A05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
1A06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
1A07	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
1A08	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
1B01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
1B02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
1B03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
1B04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
1C01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
1C02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
1C03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
1C04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
1D01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
1D02	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
1D03	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
1D04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
1D05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
1D06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
1E01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
1E02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
1E03	B4	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
1E04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
1E05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
1F01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
1F02	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
1F03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
1F04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
1G01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
1G02	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
1G03	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
1G04	B1	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
1G05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
1G06	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
1G07	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
1G08	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
1H01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
1H02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	5 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
1H03	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
1H04	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
1H05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
1J01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
1J02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
1J03	B1	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE
1J04	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
100	F1	AL/GL	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	18 / A-23	17 / A-23	21	N/A	X	X	X	ALUMINUM - W/ GLASS LITE
101	F1	AL/GL	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	19 / A-23	14 / A-23	21	N/A	X	X	X	ALUMINUM - W/ GLASS LITE
102	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	9 / A-23	9	90 min				MTL - HOLLOW FRAME W/ GL-PNL
103	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	11 / A-23	12 / A-23	9	90 min				MTL - HOLLOW FRAME W/ GL-PNL
104	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	9 / A-23	9	90 min				MTL - HOLLOW FRAME W/ GL-PNL
105	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	14 / A-23	5	90 min				MTL - HOLLOW FRAME
106	A2	HM	PTD-4	0' - 1 3/4"	6' - 0"	7' - 0"	MTL	3 / A-23	14 / A-23	10	90 min				MTL - HOLLOW FRAME
107	E1	WD	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	11 / A-23	17 / A-23	8	90 min		X		MTL - HOLLOW W/ GLASS LITE
108	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	11 / A-23	12 / A-23	9	90 min				MTL - HOLLOW FRAME W/ GL-PNL
110	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL				90 min				

GENERAL NOTES

**NOTE 1: PROVIDE 2 SQ FT. FREE AREA DOOR LOUVER WITH FUSIBLE LINK SIMILAR TO ANEMOSTAT FLDF-
UL FUSIBLE LINK DOOR LOUVER w/90 MINUTE RATING.

Door Schedule · Level 2

Door #	Door Type	Material	Finish	Thickness	Width	Height	Frame Type	Head/Jamb	Threshold	Hardware Code	Fire Rating	Elec Strike	Door Contact	Card Access	Comments
2ND FLOOR															
2A01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
2A02	B3	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
2A03	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2A04	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2A05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
2A06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2A07	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
2A08	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2B01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
2B02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
2B03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2B04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
2C01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
2C02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
2C03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2C04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
2D01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
2D02	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2D03	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
2D04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
2D05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
2D06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2E01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
2E02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
2E03	B4	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
2E04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
2E05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2F01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
2F02	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
2F03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2F04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
2G01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
2G02	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
2G03	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
2G04	B1	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2G05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2G06	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
2G07	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
2G08	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2H01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
2H02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	5 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
2H03	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
2H04	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2H05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2J01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
2J02	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2J03	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2J04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
2J05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
2J06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
2J07	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
2J08	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
201	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	9 / A-23	9	90 min				MTL - HOLLOW FRAME W/ GL-PNL
202	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	9 / A-23	9	90 min				MTL - HOLLOW FRAME W/ GL-PNL
203	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	14 / A-23	5	90 min				MTL - HOLLOW FRAME
204	A2	HM	PTD-4	0' - 1 3/4"	6' - 0"	7' - 0"	MTL	3 / A-23	14 / A-23	10	90 min				MTL - HOLLOW FRAME

Door Schedule · Level 3

Door #	Door Type	Material	Finish	Thickness	Width	Height	Frame Type	Head/Jamb	Threshold	Hardware Code	Fire Rating	Elec Strike	Door Contact	Card Access	Comments
3RD FLOOR															
3A01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
3A02	B3	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
3A03	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
3A04	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
3A05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
3A06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
3A07	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
3A08	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
3B01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
3B02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
3B03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
3B04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
3C01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min			

Door Schedule · Level 4

Door #	Door Type	Material	Finish	Thickness	Width	Height	Frame Type	Head/Jamb	Threshold	Hardware Code	Fire Rating	Elec Strike	Door Contact	Card Access	Comments
4TH FLOOR															
4A01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
4A02	B3	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
4A03	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4A04	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4A05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
4A06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4A07	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
4A08	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4B01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
4B02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
4B03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4B04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
4C01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
4C02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
4C03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4C04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
4D01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
4D02	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4D03	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
4D04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
4D05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
4D06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4E01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
4E02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
4E03	B4	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
4E04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
4E05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4F01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
4F02	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
4F03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4F04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
4G01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
4G02	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
4G03	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
4G04	B1	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4G05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4G06	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
4G07	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
4G08	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4H01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
4H02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	5 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
4H03	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
4H04	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4H05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4J01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
4J02	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4J03	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4J04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
4J05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
4J06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
4J07	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
4J08	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
401	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	9 / A-23	9	90 min				MTL - HOLLOW FRAME W/ GL-PNL
402	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	9 / A-23	9	90 min				MTL - HOLLOW FRAME W/ GL-PNL
403	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	14 / A-23	5	90 min				MTL - HOLLOW FRAME
404	A2	HM	PTD-4	0' - 1 3/4"	6' - 0"	7' - 0"	MTL	3 / A-23	14 / A-23	10	90 min				MTL - HOLLOW FRAME

Door Schedule · Level 5

Door #	Door Type	Material	Finish	Thickness	Width	Height	Frame Type	Head/Jamb	Threshold	Hardware Code	Fire Rating	Elec Strike	Door Contact	Card Access	Comments
5TH FLOOR															
5A01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
5A02	B3	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
5A03	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5A04	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5A05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
5A06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5A07	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
5A08	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5B01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
5B02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
5B03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5B04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
5C01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
5C02	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5C03	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
5C04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
5D01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
5D02	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5D03	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
5D04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
5D05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
5D06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5E01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
5E02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
5E03	B4	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
5E04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
5E05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5F01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
5F02	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
5F03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5F04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
5G01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
5G02	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
5G03	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
5G04	B1	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5G05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5G06	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
5G07	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
5G08	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5H01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
5H02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	5 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
5H03	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
5H04	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5H05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5J01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
5J02	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5J03	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5J04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
5J05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
5J06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
5J07	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
5J08	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
501	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	9 / A-23	9	90 min				MTL - HOLLOW FRAME W/ GL-PNL
502	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	9 / A-23	9	90 min				MTL - HOLLOW FRAME W/ GL-PNL
503	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	14 / A-23	5	90 min				MTL - HOLLOW FRAME
504	A2	HM	PTD-4	0' - 1 3/4"	6' - 0"	7' - 0"	MTL	3 / A-23	14 / A-23	10	90 min				MTL - HOLLOW FRAME

Door Schedule · Level 6

Door #	Door Type	Material	Finish	Thickness	Width	Height	Frame Type	Head/Jamb	Threshold	Hardware Code	Fire Rating	Elec Strike	Door Contact	Card Access	Comments
6TH FLOOR															
6A01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
6A02	B3	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
6A03	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
6A04	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
6A05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
6A06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
6A07	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
6A08	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
6B01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
6B02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
6B04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
6B07	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
6C01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
6C02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
6C03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
6C04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
6D01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
6D02	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
6D03	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
6D04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
6D05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
6D06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
6E01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
6E02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
6E03	B4	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
6E04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
6E05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
6F01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
6F02	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
6F03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
6F04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
6G01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
6G02	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
6G03	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
6G04	B1	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
6G05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
6G06	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
6G07	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
6G08	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
6H01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
6H02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	5 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
6H03	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
6H04	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
6H05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
6J01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 /

Door Schedule · Level 8

Door #	Door Type	Material	Finish	Thickness	Width	Height	Frame Type	Head/Jamb	Threshold	Hardware Code	Fire Rating	Elec Strike	Door Contact	Card Access	Comments
8TH FLOOR															
7F05	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
8A01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
8A02	B3	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
8A03	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8A04	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8A05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
8A06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8A07	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
8A08	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8B01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
8B02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
8B03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8B04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
8C01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
8C02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
8C03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8C04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
8D01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
8D02	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8D03	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
8D04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
8D05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
8D06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8E01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
8E02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
8E04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
8E05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8E06	B4	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
8E07	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
8E08	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
8E09	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8E10	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
8E11	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8F01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
8F02	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8F04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
8H01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
8H02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	5 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
8H03	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
8H04	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8H05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8J01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
8J02	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8J03	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8J04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
8J05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
8J06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
8J07	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
8J08	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
801	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	9 / A-23	9	90 min				MTL - HOLLOW FRAME W/ GL-PNL
802	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	9 / A-23	9	90 min				MTL - HOLLOW FRAME W/ GL-PNL
803	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	14 / A-23	5	90 min				MTL - HOLLOW FRAME
804	A2	HM	PTD-4	0' - 1 3/4"	6' - 0"	7' - 0"	MTL	3 / A-23	14 / A-23	10	90 min				MTL - HOLLOW FRAME

Door Schedule · Level 9

Door #	Door Type	Material	Finish	Thickness	Width	Height	Frame Type	Head/Jamb	Threshold	Hardware Code	Fire Rating	Elec Strike	Door Contact	Card Access	Comments
9TH FLOOR															
9A01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
9A02	B3	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
9A03	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
9A04	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
9A05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
9A06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
9A07	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
9B01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
9B02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
9B03	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
9B04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
9C01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
9C02	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
9C03	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
9C04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
9D01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	5 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
9D02	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
9D03	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
9D04	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
9D05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
9D06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
9E01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
9E02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
9E04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
9E05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
9E06	B4	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
9E07	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
9E08	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
9E10	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
9E11	B2	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
9F01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
9F02	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
9F04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
9F06	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
9H01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
9H02	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	5 / A-23	1 / A-23	2	N/A				WOOD - SOLID CORE
9H03	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
9H04	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
9H05	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
9J01	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	1 / A-23	1	90 min				MTL - HOLLOW FRAME
9J02	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
9J03	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
9J04	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
9J05	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	3	N/A				WOOD - SOLID CORE
9J06	B1	WD	PTD-2	0' - 1 3/8"	2' - 6"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
9J07	B3	WD	PTD-2	0' - 1 3/8"	2' - 10"	6' - 8"	MTL	7 / A-23	1 / A-23	4	N/A				WOOD - HOLLOW CORE (LOUVERED)
9J08	B1	WD	PTD-2	0' - 1 3/8"	3' - 0"	6' - 8"	MTL	7 / A-23	1 / A-23	3	N/A				WOOD - SOLID CORE
124	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
562	B2	WD	PTD-2	0' - 1 3/8"	2' - 0"	6' - 8"	MTL	7 / A-23	6 / A-23	4	N/A				WOOD - HOLLOW CORE
901	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	9 / A-23	9	90 min				MTL - HOLLOW FRAME W/ GL-PNL
902	A3	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	9 / A-23	9	90 min				MTL - HOLLOW FRAME W/ GL-PNL
903	A1	HM	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	3 / A-23	14 / A-23	5	90 min				MTL - HOLLOW FRAME
904	A2	HM	PTD-4	0' - 1 3/4"	6' - 0"	7' - 0"	MTL	3 / A-23	14 / A-23	10	90 min				MTL - HOLLOW FRAME

Door Schedule · Roof

Door #	Door Type	Material	Finish	Thickness	Width	Height	Frame Type	Head/Jamb	Threshold	Hardware Code	Fire Rating	Elec Strike	Door Contact	Card Access	Comments
ROOF															
R01	E1	WD	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	16 / A-23	20 / A-23	8	90 min		X		MTL - HOLLOW W/ GLASS LITE
R02	E1	WD	PTD-4	0' - 1 3/4"	3' - 0"	7' - 0"	MTL	16 / A-23	20 / A-23	8	90 min		X		MTL - HOLLOW W/ GLASS LITE

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STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.

MEP ENGINEER EP ENGINEERING

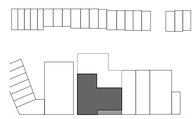
CODE CONSULTING DESIGN 2147

ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES

LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

DOOR SCHEDULES

DRAWING #: A-043 00

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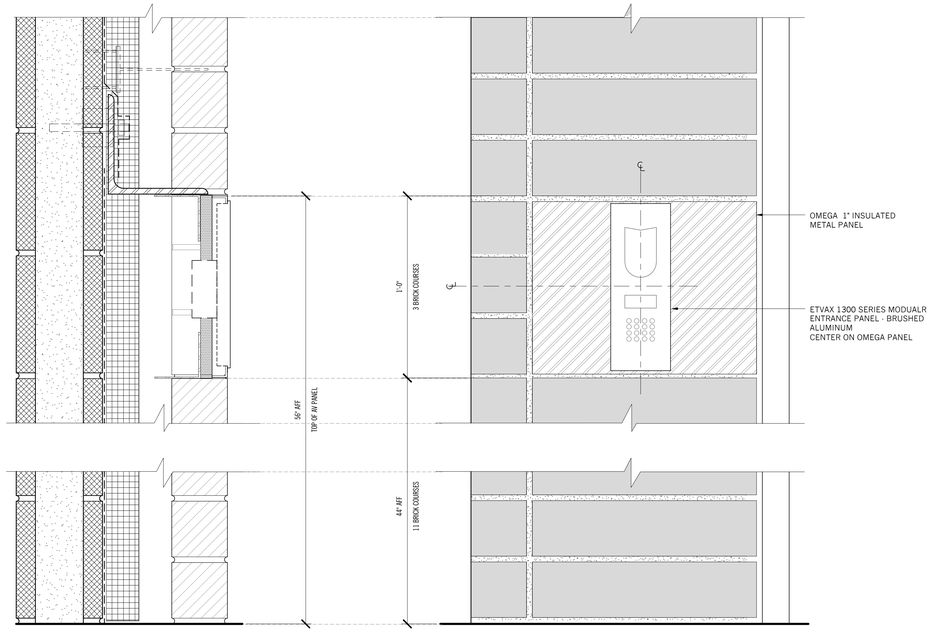
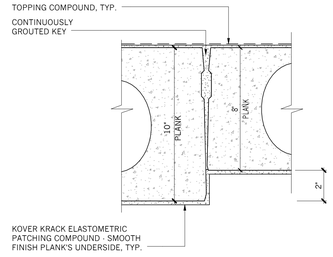
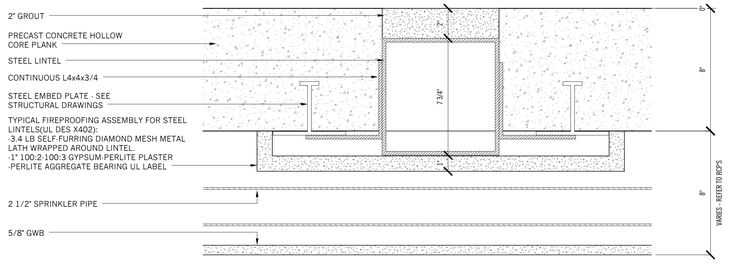


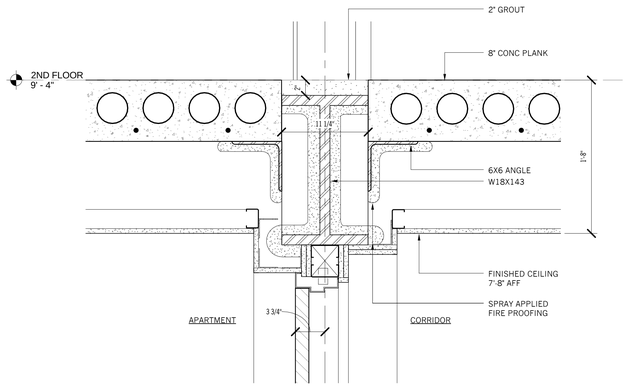
6 BUILDING ENTRY PANEL
3" = 1'-0"



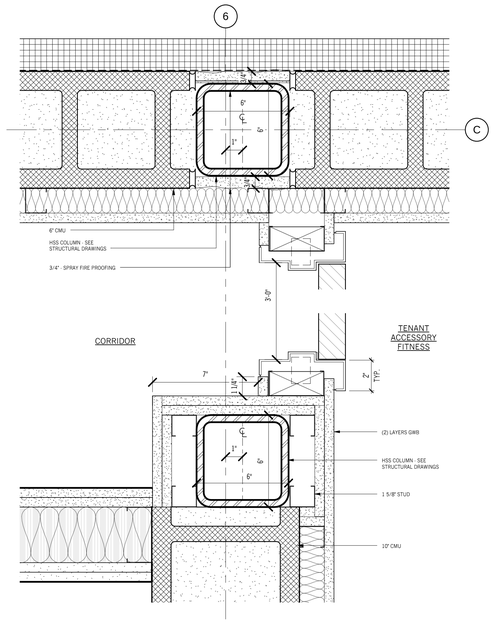
5 PLANK TRANSITION
3" = 1'-0"



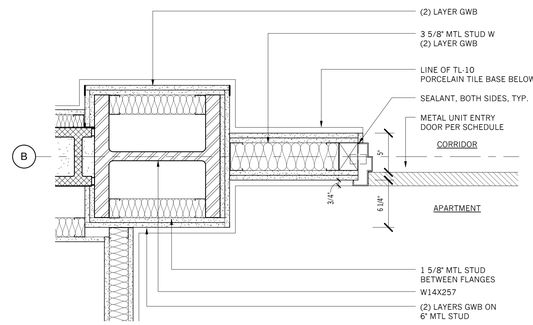
4 UPSET STEEL LINTEL
3" = 1'-0"



3 UPSET BEAM @ UNIT ENTRY DOOR
1 1/2" = 1'-0"



2 DETAIL @ STEEL POST
3" = 1'-0"



1 DETAIL @ STEEL COL/DOOR JAMB
1 1/2" = 1'-0"

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STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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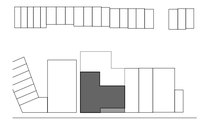
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

MISC DETAILS

REGISTERED ARCHITECT
JONATHAN JOSHUA MARVEL
No. 021490
STATE OF NEW YORK

DRAWING #: A-050 00

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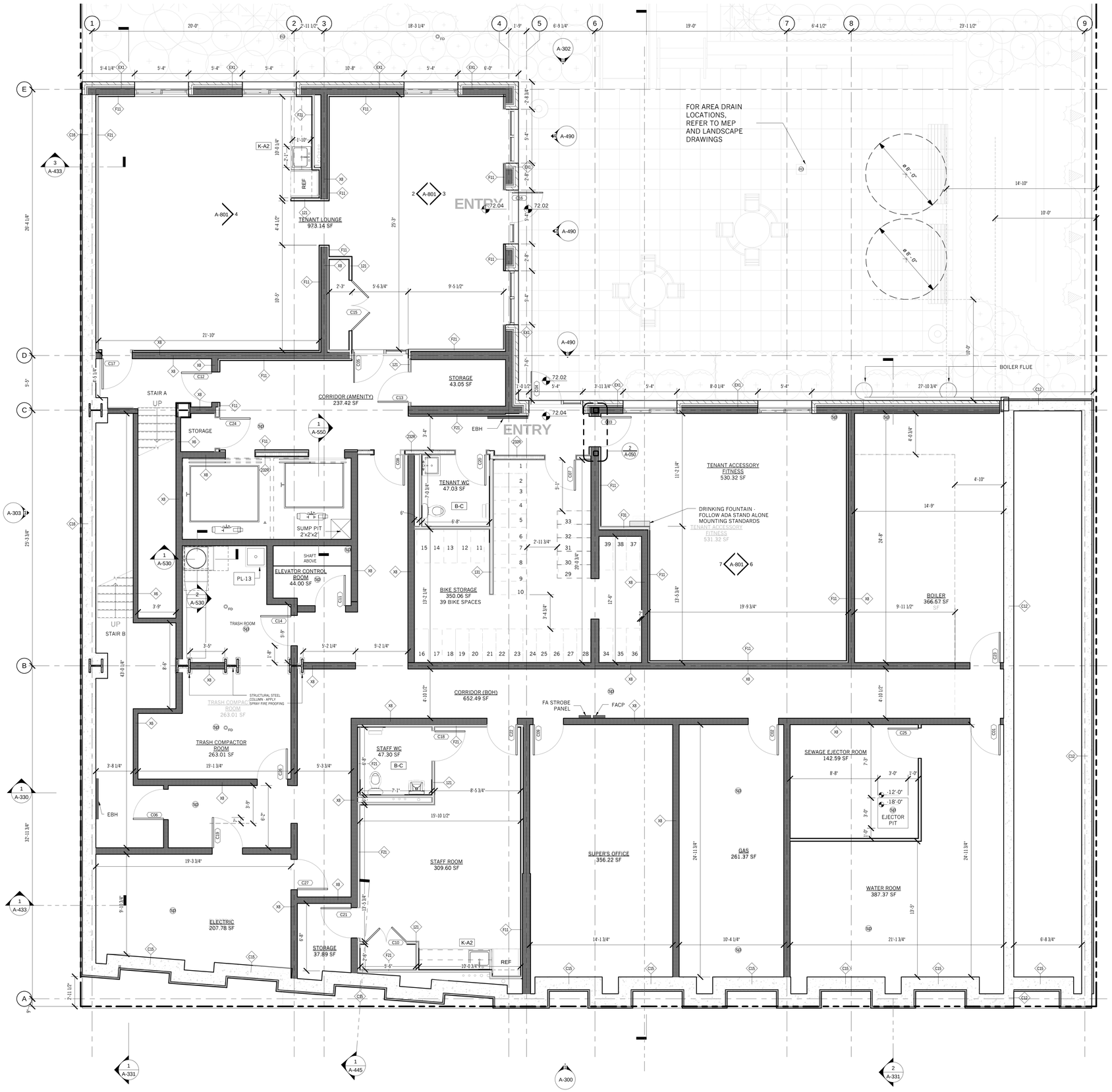

1 PLAN - ARCH - CELLAR
1/4" = 1'-0"

GENERAL PLAN NOTES

1. REFER TO A-020.0, A-021.0, A-022.0, A-023.00 AND A-024.00 FOR WALL TYPES
2. TYPICAL APARTMENT ENTRY DOOR IS 'A1' U.O.N.
3. TYPICAL BEDROOM AND BATHROOM DOOR IS 'B1' U.O.N.
4. REFER TO G-000 FOR ABBREVIATIONS AND SYMBOLS
5. REFER TO G-001 FOR GENERAL NOTES
6. REFER TO G-003 FOR ACCESSIBILITY NOTES
7. EXIT MARKING TO COMPLY WITH BC403.1.6
8. ALL DOORS WITHIN EGRESS STAIRS AND CORRIDORS OR IN EGRESS PATH TO BE 2 HR RATED SELF CLOSING DOORS 90 MINUTE DOORS)
9. LOCATE THE HINGE SIDE OF ALL DOORS 4" FROM F.O. NEIGHBORING WALL U.O.N. - SEE DIAGRAM
10. PROVIDE AUTOMATIC SHUT OFF VALVE WITH FLOOD SENSOR @ EACH WD UNIT WITH PAN UNDERNEATH
11. ALL DOORS AT CELLAR AND STAIRS AT 3'-0" X 6'-8" HM DOORS + WELDED FRAMES - TYPICAL U.O.N.
12. ALL LEVELS REFERENCE FINISH FLOOR ELEVATION LEVELS
13. SEE A-500 SERIES FOR ENLARGED DIMENSION DRAWINGS OF STAIRS, ELEVATORS AND TRASH CHUTE
14. ALL WALL PAINT TO BE EGGSHELL ENAMEL FINISH
15. ALL PLAIN STACK CMU WALLS TO BE BLOCK FILLER AND PAINT. ARCHITECT TO SELECT PALETTE FOR STAIRS
16. RECESSED INTERCOM TO BE INSTALLED WHILE BRICK IS BEING INSTALLED.
17. SPRAY INSULATION TO BE APPLIED TO UNERSIDE OF PLANK AT CRAWL SPACE.

PLAN LEGEND

- WASHER/DRYER HOOK UP
- VERIZON TELEPHONE/ INTERNET/ CABLE TV NID BOX
- GAS RISER - SEE 29/A021
- TYP HINGE SIDE
- TYP MOUNTING HEIGHTS
- MINIMUM LIVING ROOM SPACE REQUIRED AS PER HMC 27.-2074 REFER TO ENLARGED PLANS
- ** INDICATES 1 1/2 HR. FIRE RATED ULC LABELED DOOR AND PRESSED STEEL FRAME WITH DOOR CLOSER WITH HEAVY DUTY LATCH SET AND DEAD PER 1008.4.2
- SD SMOKE DETECTOR - PHOTOELECTRIC TYPE . ALSO REFER TO FA DWGS
- SC SMOKE/CARBON MONOXIDE DETECTOR ALSO REFER TO ELEC DWGS
- FDNY ACCESS PATH

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MEP ENGINEER EP ENGINEERING
CODE CONSULTING DESIGN 2147
ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES
LANDSCAPE ABEL BAINNSON BUTZ, LLP

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100%CD 01.29.2016

ATLANTIC AVE

KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

CELLAR PLAN

REGISTERED ARCHITECT
JONATHAN JOVA MARVEL
JO 026850
STATE OF NEW YORK

DRAWING #: A-100 00

30 of 92

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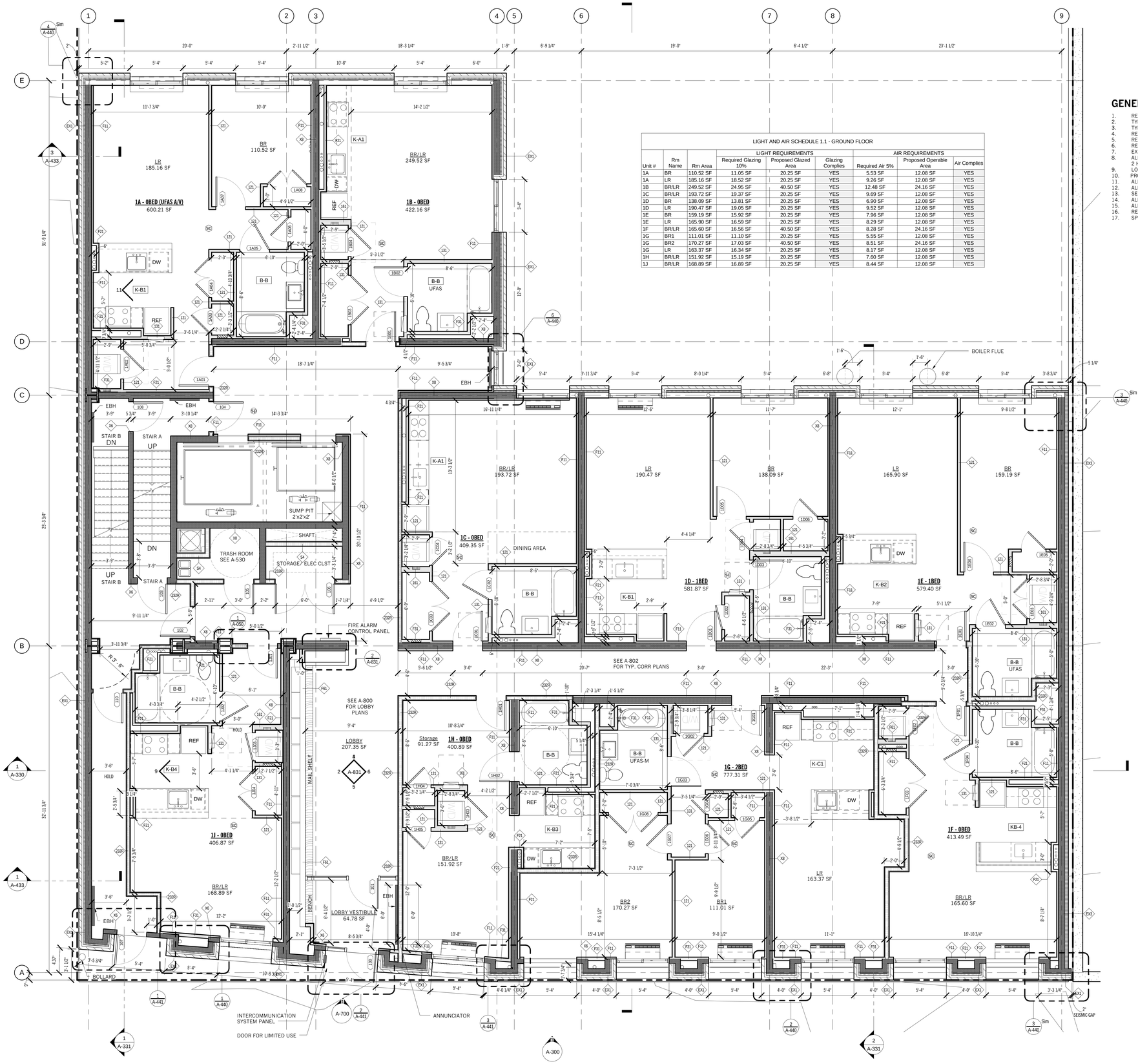

1 PLAN - ARCH - 1ST FLOOR
1/4" = 1'-0"

LIGHT AND AIR SCHEDULE 1.1 - GROUND FLOOR

Unit #	Rm Name	Rm Area	LIGHT REQUIREMENTS			AIR REQUIREMENTS		
			Required Glazing 10%	Proposed Glazed Area	Glazing Complies	Required Air 5%	Proposed Operable Area	Air Complies
1A	BR	110.52 SF	11.05 SF	20.25 SF	YES	5.53 SF	12.08 SF	YES
1A	LR	185.16 SF	18.52 SF	20.25 SF	YES	9.26 SF	12.08 SF	YES
1B	BR/LR	249.52 SF	24.95 SF	40.50 SF	YES	12.48 SF	24.16 SF	YES
1C	BR/LR	193.72 SF	19.37 SF	20.25 SF	YES	9.69 SF	12.08 SF	YES
1D	BR	138.09 SF	13.81 SF	20.25 SF	YES	6.90 SF	12.08 SF	YES
1D	LR	190.47 SF	19.05 SF	20.25 SF	YES	9.52 SF	12.08 SF	YES
1E	BR	159.19 SF	15.92 SF	20.25 SF	YES	7.96 SF	12.08 SF	YES
1E	LR	165.90 SF	16.59 SF	20.25 SF	YES	8.29 SF	12.08 SF	YES
1F	BR/LR	165.60 SF	16.56 SF	40.50 SF	YES	8.28 SF	24.16 SF	YES
1G	BR1	111.01 SF	11.10 SF	20.25 SF	YES	5.55 SF	12.08 SF	YES
1G	BR2	170.27 SF	17.03 SF	40.50 SF	YES	8.51 SF	24.16 SF	YES
1G	LR	163.37 SF	16.34 SF	20.25 SF	YES	8.17 SF	12.08 SF	YES
1H	BR/LR	151.92 SF	15.19 SF	20.25 SF	YES	7.60 SF	12.08 SF	YES
1J	BR/LR	168.89 SF	16.89 SF	20.25 SF	YES	8.44 SF	12.08 SF	YES

GENERAL PLAN NOTES

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3. TYPICAL BEDROOM AND BATHROOM DOOR IS 'B1' U.O.N.
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5. REFER TO G-001 FOR GENERAL NOTES
6. REFER TO G-003 FOR ACCESSIBILITY NOTES
7. EXIT MARKING TO COMPLY WITH BC403.1.6
8. ALL DOORS WITHIN EGRESS STAIRS AND CORRIDORS OR IN EGRESS PATH TO BE 2 HR RATED SELF CLOSING DOORS 90 MINUTE DOORS)
9. LOCATE THE HINGE SIDE OF ALL DOORS 4" FROM F.O. NEIGHBORING WALL U.O.N. - SEE DIAGRAM
10. PROVIDE AUTOMATIC SHUT OFF VALVE WITH FLOOD SENSOR @ EACH WD UNIT WITH PAN UNDERNEATH
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PLAN LEGEND

- ELECTRIC PANEL
- WASHER/DRYER HOOK UP
- VERIZON TELEPHONE/ INTERNET/ CABLE TV NID BOX
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- TYP HINGE SIDE
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- SD SMOKE DETECTOR - PHOTOELECTRIC TYPE . ALSO REFER TO FA DWGS
- SC SMOKE/CARBON MONOXIDE DETECTOR ALSO REFER TO ELEC DWGS
- FDNY ACCESS PATH

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CODE CONSULTING DESIGN 2147
ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES
LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

GROUND FLOOR PLAN

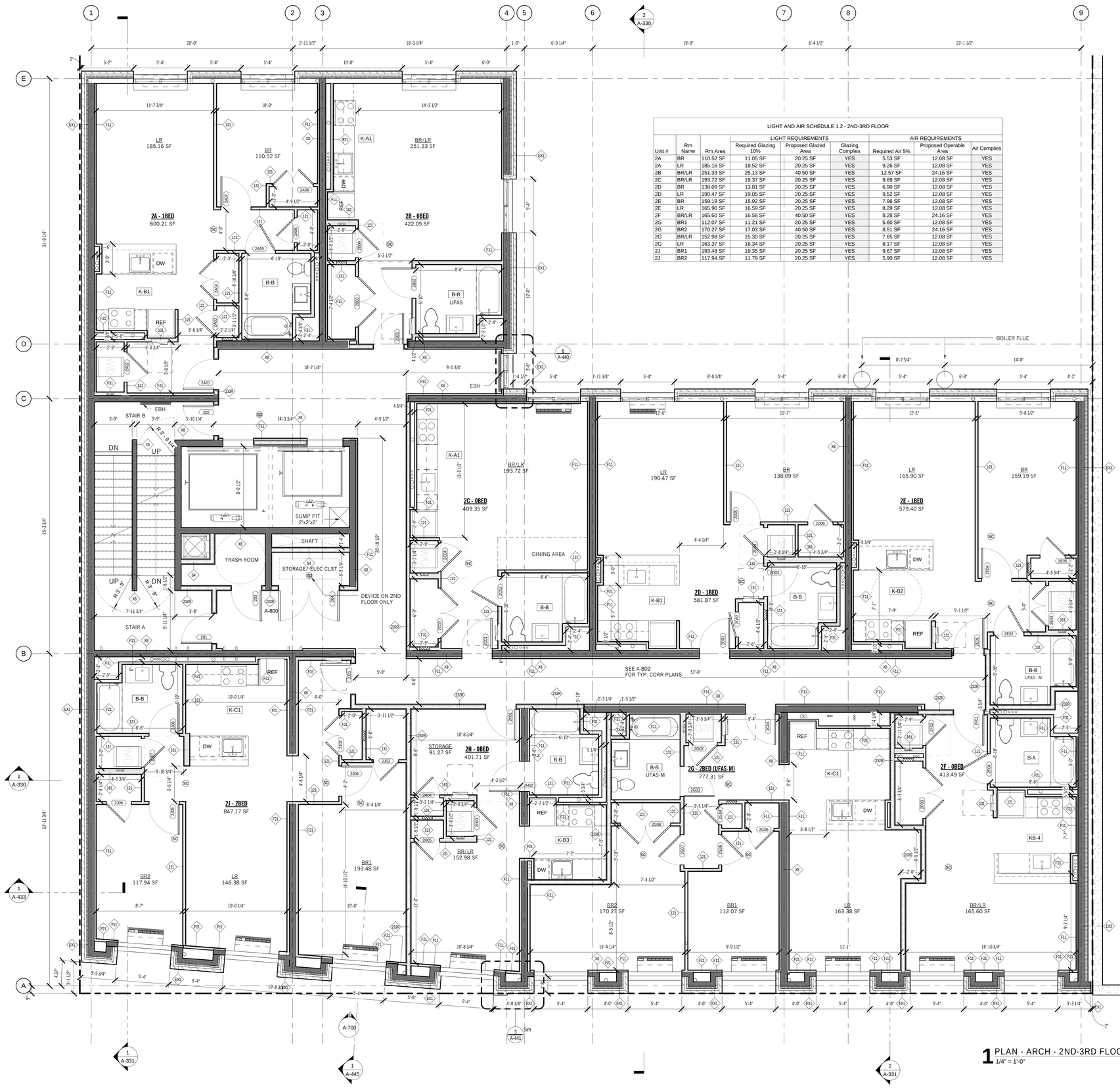
REGISTERED ARCHITECT JONATHAN JOSEPH MARVEL No. 031450 STATE OF NEW YORK

DRAWING #: A-101.00

31 of 92

DOB ##### ZONE

1/29/2016 4:22:42 PM



1 PLAN - ARCH - 2ND-3RD FLOOR
1/4" = 1'-0"

LIGHT AND AIR SCHEDULE 1.2 - 2ND-3RD FLOOR

			LIGHT REQUIREMENTS			AIR REQUIREMENTS		
Unit #	Rm Name	Rm Area	Required Glazing 10%	Proposed Glazed Area	Glazing Complies	Required Air 5%	Proposed Operable Area	Air Complies
2A	BR	110.52 SF	11.05 SF	20.25 SF	YES	5.53 SF	12.08 SF	YES
2A	LR	185.16 SF	18.52 SF	20.25 SF	YES	9.26 SF	12.08 SF	YES
2B	BR/LR	251.33 SF	25.13 SF	40.50 SF	YES	12.57 SF	24.16 SF	YES
2C	BR/LR	193.72 SF	19.37 SF	20.25 SF	YES	9.69 SF	12.08 SF	YES
2D	BR	138.09 SF	13.81 SF	20.25 SF	YES	6.90 SF	12.08 SF	YES
2D	LR	190.47 SF	19.05 SF	20.25 SF	YES	9.52 SF	12.08 SF	YES
2E	BR	159.19 SF	15.92 SF	20.25 SF	YES	7.96 SF	12.08 SF	YES
2E	LR	165.90 SF	16.59 SF	20.25 SF	YES	8.29 SF	12.08 SF	YES
2F	BR/LR	165.60 SF	16.56 SF	40.50 SF	YES	8.28 SF	24.16 SF	YES
2G	BR1	112.07 SF	11.21 SF	20.25 SF	YES	5.60 SF	12.08 SF	YES
2G	BR2	170.27 SF	17.03 SF	40.50 SF	YES	8.51 SF	24.16 SF	YES
2G	BR/LR	152.98 SF	15.30 SF	20.25 SF	YES	7.65 SF	12.08 SF	YES
2G	LR	163.37 SF	16.34 SF	20.25 SF	YES	8.17 SF	12.08 SF	YES
2J	BR1	193.48 SF	19.35 SF	20.25 SF	YES	9.67 SF	12.08 SF	YES
2J	BR2	117.94 SF	11.79 SF	20.25 SF	YES	5.90 SF	12.08 SF	YES

GENERAL PLAN NOTES

1. REFER TO A-020.0, A-021.0, A-022.0, A-023.00 AND A-024.00 FOR WALL TYPES
2. TYPICAL APARTMENT ENTRY DOOR IS 'A1' U.O.N.
3. TYPICAL BEDROOM AND BATHROOM DOOR IS '81' U.O.N.
4. REFER TO G-000 FOR ABBREVIATIONS AND SYMBOLS
5. REFER TO G-001 FOR GENERAL NOTES
6. REFER TO G-003 FOR ACCESSIBILITY NOTES
7. EXIT MARKING TO COMPLY WITH BC403.1.6
8. ALL DOORS WITHIN EGRESS STAIRS AND CORRIDORS OR IN EGRESS PATH TO BE 2 HR RATED SELF CLOSING DOORS 90 MINUTE DOORS)
9. LOCATE THE HINGE SIDE OF ALL DOORS 4" FROM F.O. NEIGHBORING WALL U.O.N. - SEE DIAGRAM
10. PROVIDE AUTOMATIC SHUT OFF VALVE WITH FLOOD SENSOR @ EACH WD UNIT WITH PAN UNDERNEATH
11. ALL DOORS AT CELLAR AND STAIRS AT 3'-0" X 6'-8" HM DOORS + WELDED FRAMES - TYPICAL U.O.N.
12. ALL LEVELS REFERENCE FINISH FLOOR ELEVATION LEVELS
13. SEE A-500 SERIES FOR ENLARGED DIMENSION DRAWINGS OF STAIRS, ELEVATORS AND TRASH CHUTE
14. ALL WALL PAINT TO BE EGGSHELL ENAMEL FINISH
15. ALL PLAIN STACK CMU WALLS TO BE BLOCK FILLER AND PAINT. ARCHITECT TO SELECT PALETTE FOR STAIRS
16. RECESSED INTERCOM TO BE INSTALLED WHILE BRICK IS BEING INSTALLED.
17. SPRAY INSULATION TO BE APPLIED TO UNERSIDE OF PLANK AT CRAWL SPACE.

PLAN LEGEND

- ELECTRIC PANEL
- WASHER/DRYER HOOK UP
- VERIZON TELEPHONE/ INTERNET/ CABLE TV NID BOX
- GAS RISER - SEE 29/A021
- TYP HINGE SIDE
- FIRE ALARM OR VISUAL ALARM UON IN DRAWINGS
- THERMOSTAT
- SWITCH
- TELEPHONE
- OUTLET
- TYP MOUNTING HEIGHTS
- MINIMUM LIVING ROOM SPACE REQUIRED AS PER HMC 27 -2074 REFER TO ENLARGED PLANS
- ** INDICATES 1 1/2 HR. FIRE RATED ULC LABELED DOOR AND PRESSED STEEL FRAME WITH DOOR CLOSER WITH HEAVY DUTY LATCH SET AND DEAD PER 1008.4.2
- SD SMOKE DETECTOR - PHOTOELECTRIC TYPE . ALSO REFER TO FA DWGS
- SC SMOKE/CARBON MONOXIDE DETECTOR ALSO REFER TO ELEC DWGS
- FDNY ACCESS PATH

DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED
OWNER ATHENA HOUSING ASSOCIATES LLC.
STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.
MEP ENGINEER EP ENGINEERING
CODE CONSULTING DESIGN 2147
ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES
LANDSCAPE ABEL BAINNSON BUTZ, LLP

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#	Date	Remarks
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6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD **01.29.2016**

ATLANTIC AVE

KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

2ND-3RD FLOOR PLAN

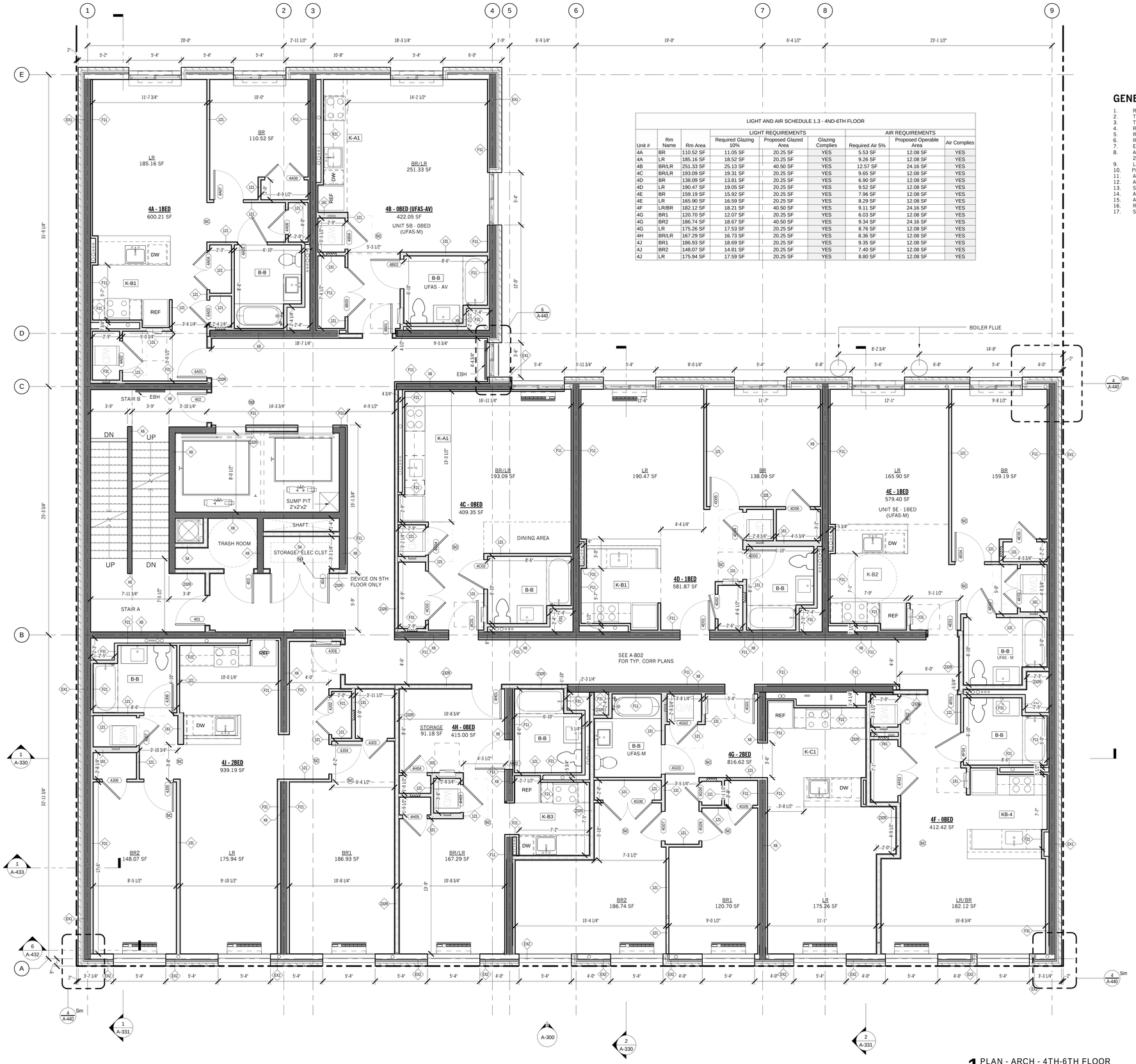
REGISTERED ARCHITECT JONATHAN JOSHUA MARVEL No. 024801 STATE OF NEW YORK

DRAWING #: A-102 00

32 of 92

DOB ##### ZONE

1/29/2016 4:22:56 PM



1 PLAN - ARCH - 4TH-6TH FLOOR
1/4" = 1'-0"

LIGHT AND AIR SCHEDULE 1.3 - 4ND-6TH FLOOR

			LIGHT REQUIREMENTS			AIR REQUIREMENTS		
Unit #	Rm Name	Rm Area	Required Glazing 10%	Proposed Glazed Area	Glazing Complies	Required Air 5%	Proposed Operable Area	Air Complies
4A	BR	110.52 SF	11.05 SF	20.25 SF	YES	5.53 SF	12.08 SF	YES
4A	LR	185.16 SF	18.52 SF	20.25 SF	YES	9.26 SF	12.08 SF	YES
4B	BR/LR	251.33 SF	25.13 SF	40.50 SF	YES	12.57 SF	24.16 SF	YES
4C	BR/LR	193.09 SF	19.31 SF	20.25 SF	YES	9.65 SF	12.08 SF	YES
4D	BR	138.09 SF	13.81 SF	20.25 SF	YES	6.90 SF	12.08 SF	YES
4D	LR	190.47 SF	19.05 SF	20.25 SF	YES	9.52 SF	12.08 SF	YES
4E	BR	159.19 SF	15.92 SF	20.25 SF	YES	7.96 SF	12.08 SF	YES
4E	LR	165.90 SF	16.59 SF	20.25 SF	YES	8.29 SF	12.08 SF	YES
4F	LR/BR	182.12 SF	18.21 SF	40.50 SF	YES	9.11 SF	24.16 SF	YES
4G	BR1	120.70 SF	12.07 SF	20.25 SF	YES	6.03 SF	12.08 SF	YES
4G	BR2	186.74 SF	18.67 SF	40.50 SF	YES	9.34 SF	24.16 SF	YES
4G	LR	175.26 SF	17.53 SF	20.25 SF	YES	8.76 SF	12.08 SF	YES
4H	BR/LR	167.29 SF	16.73 SF	20.25 SF	YES	8.36 SF	12.08 SF	YES
4J	BR1	186.93 SF	18.69 SF	20.25 SF	YES	9.35 SF	12.08 SF	YES
4J	BR2	148.07 SF	14.81 SF	20.25 SF	YES	7.40 SF	12.08 SF	YES
4J	LR	175.94 SF	17.59 SF	20.25 SF	YES	8.80 SF	12.08 SF	YES

GENERAL PLAN NOTES

1. REFER TO A-020.0, A-021.0, A-022.0, A-023.00 AND A-024.00 FOR WALL TYPES
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3. TYPICAL BEDROOM AND BATHROOM DOOR IS 'B1' U.O.N.
4. REFER TO G-000 FOR ABBREVIATIONS AND SYMBOLS
5. REFER TO G-001 FOR GENERAL NOTES
6. REFER TO G-003 FOR ACCESSIBILITY NOTES
7. EXIT MARKING TO COMPLY WITH BC403.1.6
8. ALL DOORS WITHIN EGRESS STAIRS AND CORRIDORS OR IN EGRESS PATH TO BE 2 HR RATED SELF CLOSING DOORS 90 MINUTE DOORS)
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10. PROVIDE AUTOMATIC SHUT OFF VALVE WITH FLOOD SENSOR @ EACH WD UNIT WITH PAN UNDERNEATH
11. ALL DOORS AT CELLAR AND STAIRS AT 3'-0" X 6'-8" HM DOORS + WELDED FRAMES - TYPICAL U.O.N.
12. ALL LEVELS REFERENCE FINISH FLOOR ELEVATION LEVELS
13. SEE A-500 SERIES FOR ENLARGED DIMENSION DRAWINGS OF STAIRS, ELEVATORS AND TRASH CHUTE
14. ALL WALL PAINT TO BE EGGSHELL ENAMEL FINISH
15. ALL PLAIN STACK CMU WALLS TO BE BLOCK FILLER AND PAINT. ARCHITECT TO SELECT PALETTE FOR STAIRS
16. RECESSED INTERCOM TO BE INSTALLED WHILE BRICK IS BEING INSTALLED.
17. SPRAY INSULATION TO BE APPLIED TO UNERSIDE OF PLANK AT CRAWL SPACE.

PLAN LEGEND

DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

4TH-6TH FLOOR

REGISTERED ARCHITECT
JONATHAN JOVA MARVEL
No. 021601
STATE OF NEW YORK

DRAWING #: A-103 00

33 of 92

DOB ##### ZONE

1/29/2016 4:23:09 PM

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145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

GENERAL PLAN NOTES

1. REFER TO A-020.0, A-021.0, A-022.0, A-023.00 AND A-024.00 FOR WALL TYPES
2. TYPICAL APARTMENT ENTRY DOOR IS 'A1' U.O.N.
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5. REFER TO G-001 FOR GENERAL NOTES
6. REFER TO G-003 FOR ACCESSIBILITY NOTES
7. EXIT MARKING TO COMPLY WITH BC403.1.6
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9. LOCATE THE HINGE SIDE OF ALL DOORS 4" FROM F.O. NEIGHBORING WALL U.O.N. - SEE DIAGRAM
10. PROVIDE AUTOMATIC SHUT OFF VALVE WITH FLOOD SENSOR @ EACH WD UNIT WITH PAN UNDERNEATH
11. ALL DOORS AT CELLAR AND STAIRS AT 3'-0" X 6'-8" HM DOORS + WELDED FRAMES - TYPICAL U.O.N.
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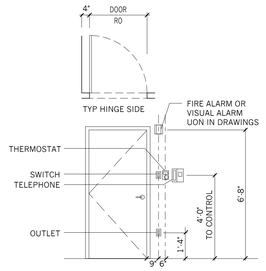
15. ALL PLAIN STACK CMU WALLS TO BE BLOCK FILLER AND PAINT. ARCHITECT TO SELECT PALETTE FOR STAIRS
16. RECESSED INTERCOM TO BE INSTALLED WHILE BRICK IS BEING INSTALLED.
17. SPRAY INSULATION TO BE APPLIED TO UNERSIDE OF PLANK AT CRAWL SPACE.

LIGHT AND AIR SCHEDULE 1.4 - 7ND-9TH FLOOR

			LIGHT REQUIREMENTS			AIR REQUIREMENTS		
Unit #	Rm Name	Rm Area	Required Glazing 10%	Proposed Glazed Area	Glazing Complies	Required Air 5%	Proposed Operable Area	Air Complies
7A	BR	110.52 SF	11.05 SF	20.25 SF	YES	5.53 SF	12.08 SF	YES
7A	LR	185.16 SF	18.52 SF	20.25 SF	YES	9.26 SF	12.08 SF	YES
7B	LR/BR	251.33 SF	25.13 SF	40.50 SF	YES	12.57 SF	24.16 SF	YES
7C	LR/BR	194.10 SF	19.41 SF	20.25 SF	YES	9.70 SF	12.08 SF	YES
7D	BR	138.09 SF	13.81 SF	20.25 SF	YES	6.90 SF	12.08 SF	YES
7D	LR	190.47 SF	19.05 SF	20.25 SF	YES	9.52 SF	12.08 SF	YES
7E	BR1	157.67 SF	15.77 SF	20.25 SF	YES	7.88 SF	12.08 SF	YES
7E	BR2	124.89 SF	12.49 SF	17.25 SF	YES	6.24 SF	10.07 SF	YES
7E	BR3	114.40 SF	11.44 SF	17.25 SF	YES	5.72 SF	10.07 SF	YES
7E	LR	165.90 SF	16.59 SF	20.25 SF	YES	8.29 SF	12.08 SF	YES
7F	LR/BR	216.38 SF	21.64 SF	51.75 SF	YES	10.82 SF	30.21 SF	YES
7H	LR/BR	166.41 SF	16.64 SF	21.00 SF	YES	8.32 SF	12.08 SF	YES
7J	BR1	186.93 SF	18.69 SF	21.00 SF	YES	9.35 SF	12.08 SF	YES
7J	BR2	148.07 SF	14.81 SF	21.00 SF	YES	7.40 SF	12.08 SF	YES
7J	LR	175.51 SF	17.55 SF	21.00 SF	YES	8.78 SF	12.08 SF	YES

PLAN LEGEND

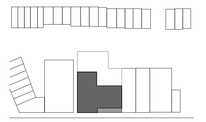
- 36" / 30" ELECTRIC PANEL
- WASHER/DRYER HOOK UP
- VERIZON TELEPHONE/ INTERNET/ CABLE TV NID BOX
- GAS RISER - SEE 29/A021



- MINIMUM LIVING ROOM SPACE REQUIRED AS PER HMC 27.-2074 REFER TO ENLARGED PLANS
- ** INDICATES 1 1/2 HR. FIRE RATED ULC LABELED DOOR AND PRESSED STEEL FRAME WITH DOOR CLOSER WITH HEAVY DUTY LATCH SET AND DEAD PER 1008.4.2
- SD SMOKE DETECTOR - PHOTOELECTRIC TYPE . ALSO REFER TO FA DWGS
- SC SMOKE/CARBON MONOXIDE DETECTOR ALSO REFER TO ELEC DWGS
- FDNY ACCESS PATH

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

7TH-9TH FLOOR PLAN

REGISTERED ARCHITECT ANTHONY JOHN MARVEL NO. 031450 STATE OF NEW YORK

DRAWING #: A-104.00

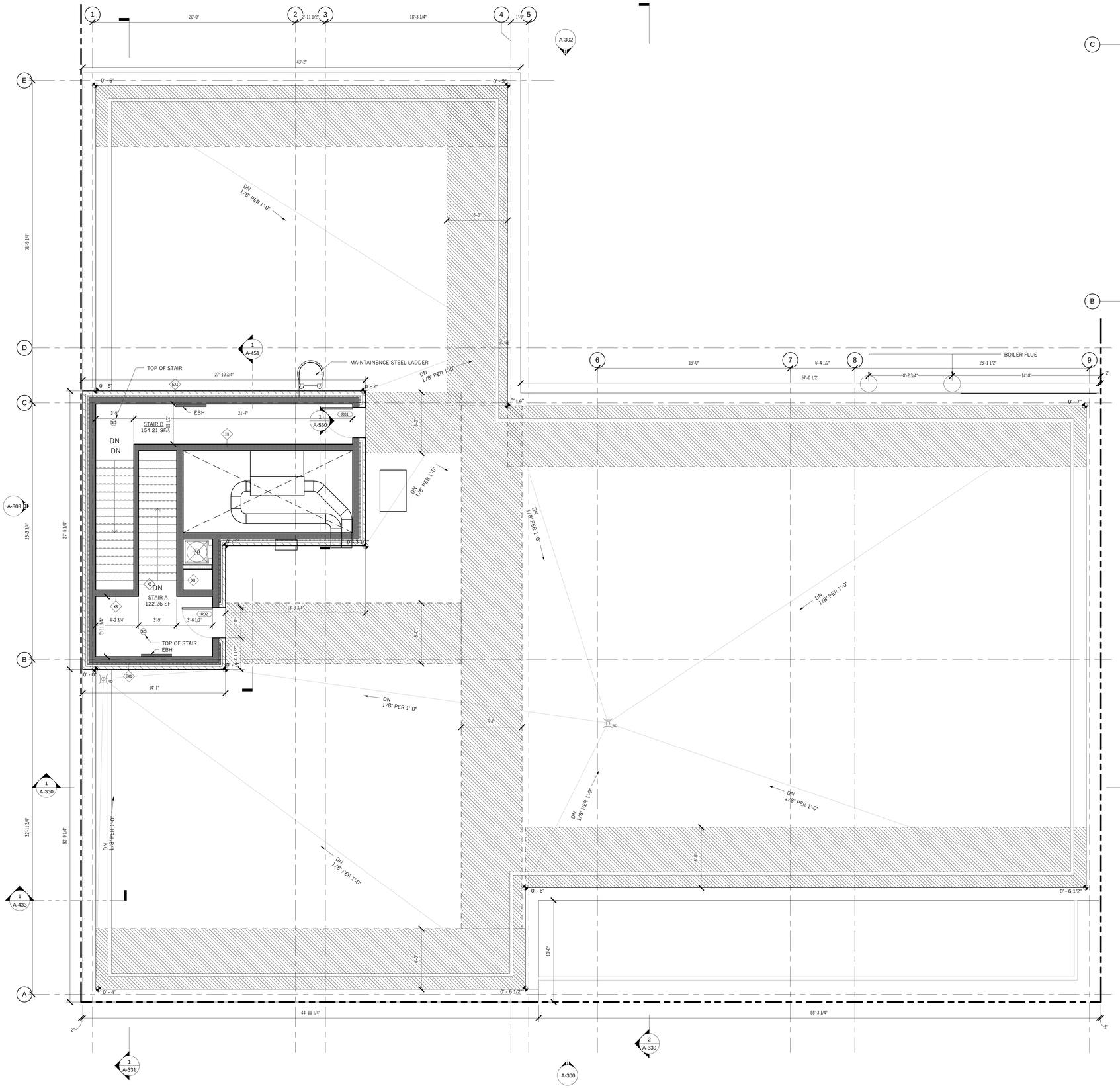
34 of 92

DOB ##### ZONE

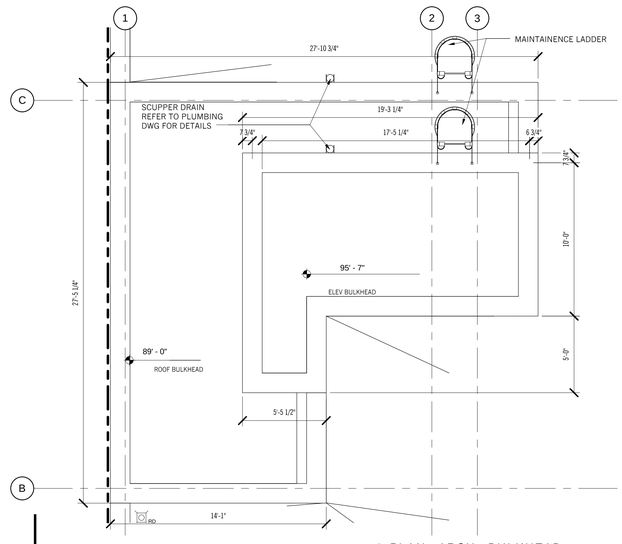
DOB STAMP ZONE

1/29/2016 4:23:21 PM

1 PLAN - ARCH - 7TH-9TH FLOOR
1/4" = 1'-0"



1 PLAN - ARCH - ROOF
1/4" = 1'-0"



2 PLAN - ARCH - BULKHEAD
1/4" = 1'-0"

GENERAL PLAN NOTES

1. REFER TO A-020.0, A-021.0, A-022.0, A-023.00 AND A-024.00 FOR WALL TYPES
2. TYPICAL APARTMENT ENTRY DOOR IS 'A1' U.O.N.
3. TYPICAL BEDROOM AND BATHROOM DOOR IS 'B1' U.O.N.
4. REFER TO G-000 FOR ABBREVIATIONS AND SYMBOLS
5. REFER TO G-001 FOR GENERAL NOTES
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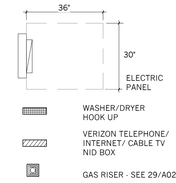
11. ALL DOORS AT CELLAR AND STAIRS AT 3'-0" X 6'-8" HM DOORS + WELDED FRAMES - TYPICAL U.O.N.
12. ALL LEVELS REFERENCE FINISH FLOOR ELEVATION LEVELS
13. SEE A-500 SERIES FOR ENLARGED DIMENSION DRAWINGS OF STAIRS, ELEVATORS AND TRASH CHUTE
14. ALL WALL PAINT TO BE EGGSHELL ENAMEL FINISH
15. ALL PLAIN STACK CMU WALLS TO BE BLOCK FILLER AND PAINT. ARCHITECT TO SELECT PALETTE FOR STAIRS
16. RECESSED INTERCOM TO BE INSTALLED WHILE BRICK IS BEING INSTALLED.
17. SPRAY INSULATION TO BE APPLIED TO UNERSIDE OF PLANK AT CRAWL SPACE.

A-301

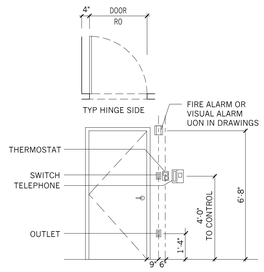
PLAN LEGEND



WASHER/DRYER HOOK UP

VERIZON TELEPHONE/ INTERNET/ CABLE TV NID BOX

GAS RISER - SEE 29/A021



TYP MOUNTING HEIGHTS

MINIMUM LIVING ROOM SPACE REQUIRED AS PER HMC 27.-2074 REFER TO ENLARGED PLANS

** INDICATES 1 1/2 HR. FIRE RATED ULC LABELED DOOR AND PRESSED STEEL FRAME WITH DOOR CLOSER WITH HEAVY DUTY LATCH SET AND DEAD PER 1008.4.2

SD SMOKE DETECTOR - PHOTOELECTRIC TYPE . ALSO REFER TO FA DWGS

SC SMOKE/CARBON MONOXIDE DETECTOR ALSO REFER TO ELEC DWGS

FDNY ACCESS PATH

DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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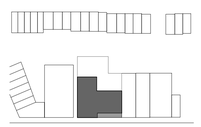
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

ROOF PLAN

DRAWING #: A-105 00

35 of 92

DOB ##### ZONE

1 FINISH FLOOR PLAN - CELLAR
1/4" = 1'-0"

FINISH FLOOR LEGEND	
PATTERN	DESCRIPTION
	CONC-1 - SEALED CONCRETE @ TYP EXPOSED CONC FLOOR
	TL-6 - 18" X 18" NEMO BEIGE TILE @ CORRIDOR
	TL-7 - 18" X 18" NEMO MORO TILE @ CORRIDOR
	TL-8 - 18" X 18" NEMO NERO TILE @ CORRIDOR
	TL-1 - 4" x 12" BATHROOM AND LAUNDRY ROOM @ DU
	WD - OAK-ENGINEERED PREFINISHED WOOD @ DU
	RBT - 2' x 2' RUBBER TILE FLOORING @ FITNESS RM
TAG	DESCRIPTION
TG-#	FLOOR FINISH TAGS
DTL#	DOOR THRESHOLD TAGS - REFER TO #/A-023

NOTES
1. NO TILE AT THIS LOCATION.

DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

FINISH FLOOR PLAN - CELLAR

REGISTERED ARCHITECT
JONATHAN JOHN MARVEL
No. 021450
STATE OF NEW YORK

DRAWING #: A-110.00

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DOB ##### ZONE

1/29/2016 4:23:38 PM

1 FINISH FLOOR PLAN - GROUND FLOOR
1/4" = 1'-0"

FINISH FLOOR LEGEND	
PATTERN	DESCRIPTION
	CONC-1 - SEALED CONCRETE @ TYP EXPOSED CONC FLOOR
	TL-6 - 18" X 18" NEMO BEIGE TILE @ CORRIDOR
	TL-7 - 18" X 18" NEMO MORO TILE @ CORRIDOR
	TL-8 - 18" X 18" NEMO NERO TILE @ CORRIDOR
	TL-1 - 4" x 12" BATHROOM AND LAUNDRY ROOM @ DU
	WD - OAK-ENGINEERED PREFINISHED WOOD @ DU
	RBT - 2' x 2' RUBBER TILE FLOORING @ FITNESS RM
TAG	DESCRIPTION
TG-#	FLOOR FINISH TAGS
DTL#	DOOR THRESHOLD TAGS - REFER TO #/A-023

NOTES
1. NO TILE AT THIS LOCATION.

DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
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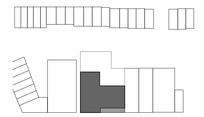
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

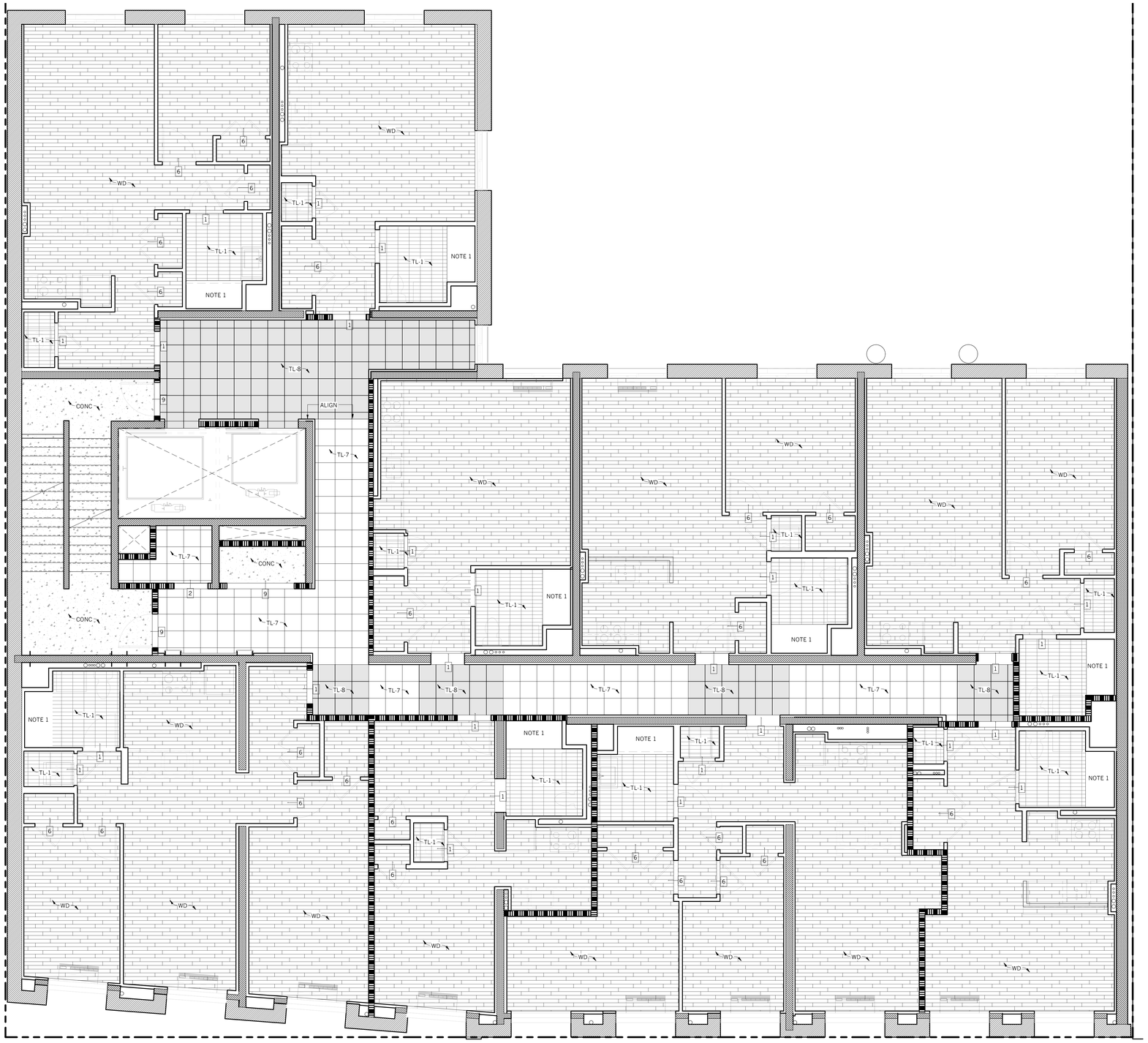
909 ATLANTIC AVE.
BROOKLYN, NY 11238

FINISH FLOOR PLAN - GROUND FLOOR

DRAWING #: A-111.00

37 of 92

DOB ##### ZONE



1 FINISH FLOOR PLAN - 2ND-3RD FLOOR
1/4" = 1'-0"

FINISH FLOOR LEGEND	
PATTERN	DESCRIPTION
	CONC-1 - SEALED CONCRETE @ TYP EXPOSED CONC FLOOR
	TL-6 - 18" X 18" NEMO BEIGE TILE @ CORRIDOR
	TL-7 - 18" X 18" NEMO MORO TILE @ CORRIDOR
	TL-8 - 18" X 18" NEMO NERO TILE @ CORRIDOR
	TL-1 - 4" x 12" BATHROOM AND LAUNDRY ROOM @ DU
	WD - OAK-ENGINEERED PREFINISHED WOOD @ DU
	RBT - 2' x 2' RUBBER TILE FLOORING @ FITNESS RM
TAG	DESCRIPTION
TG-#	FLOOR FINISH TAGS
DTL#	DOOR THRESHOLD TAGS - REFER TO #/A-023

NOTES
1. NO TILE AT THIS LOCATION.

DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
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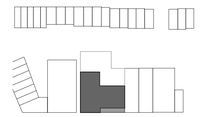
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

FINISH FLOOR PLAN - 2ND-3RD FLOOR

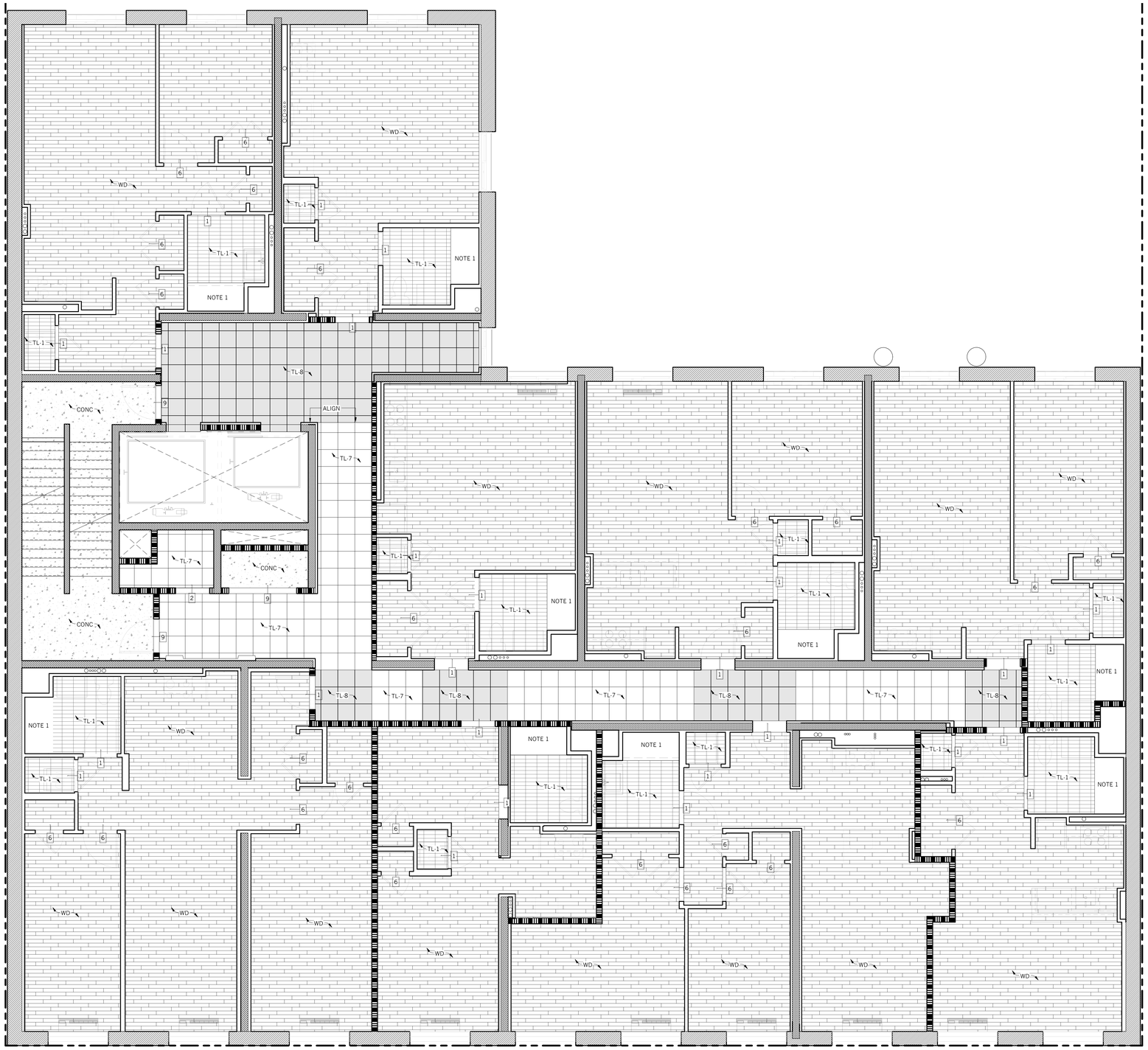
REGISTERED ARCHITECT JONATHAN JOVA MARVEL No. 021651 STATE OF NEW YORK

DRAWING #: A-112 00

38 of 92

DOB ##### ZONE

1/29/2016 4:24:00 PM



1 FINISH FLOOR PLAN - 4ND-6TH FLOOR
1/4" = 1'-0"

FINISH FLOOR LEGEND	
PATTERN	DESCRIPTION
	CONC-1 - SEALED CONCRETE @ TYP EXPOSED CONC FLOOR
	TL-6 - 18" X 18" NEMO BEIGE TILE @ CORRIDOR
	TL-7 - 18" X 18" NEMO MORO TILE @ CORRIDOR
	TL-8 - 18" X 18" NEMO NERO TILE @ CORRIDOR
	TL-1 - 4" x 12" BATHROOM AND LAUNDRY ROOM @ DU
	WD - OAK-ENGINEERED PREFINISHED WOOD @ DU
	RBT - 2' x 2' RUBBER TILE FLOORING @ FITNESS RM
TAG	DESCRIPTION
TG-#	FLOOR FINISH TAGS
DTL#	DOOR THRESHOLD TAGS - REFER TO #/A-023

NOTES
1. NO TILE AT THIS LOCATION.

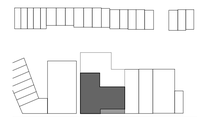
DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

FINISH FLOOR PLAN - 4ND-6TH FLOOR

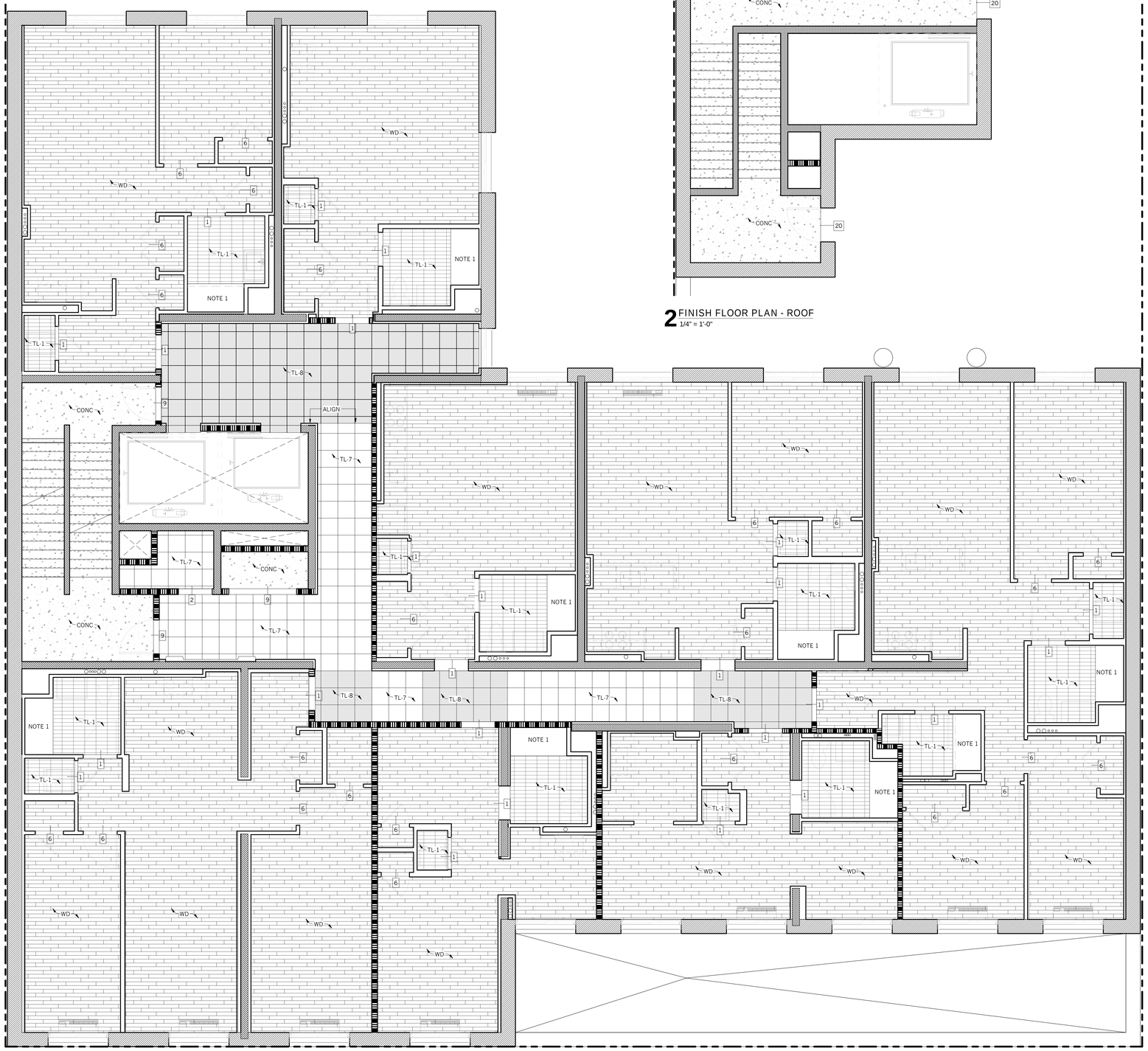
REGISTERED ARCHITECT
JONATHAN JOVA MARVEL
No. 021431
STATE OF NEW YORK

DRAWING #: A-113 00

39 of 92

DOB ##### ZONE

1/29/2016 4:24:12 PM



2 FINISH FLOOR PLAN - ROOF
1/4" = 1'-0"

1 FINISH FLOOR PLAN - 7TH-9TH FLOOR
1/4" = 1'-0"

FINISH FLOOR LEGEND	
PATTERN	DESCRIPTION
	CONC-1 - SEALED CONCRETE @ TYP EXPOSED CONC FLOOR
	TL-6 - 18" X 18" NEMO BEIGE TILE @ CORRIDOR
	TL-7 - 18" X 18" NEMO MORO TILE @ CORRIDOR
	TL-8 - 18" X 18" NEMO NERO TILE @ CORRIDOR
	TL-1 - 4" x 12" BATHROOM AND LAUNDRY ROOM @ DU
	WD - OAK-ENGINEERED PREFINISHED WOOD @ DU
	RBT - 2' x 2' RUBBER TILE FLOORING @ FITNESS RM
TAG	DESCRIPTION
TG-#	FLOOR FINISH TAGS
DTL#	DOOR THRESHOLD TAGS - REFER TO #/A-023

NOTES
1. NO TILE AT THIS LOCATION.

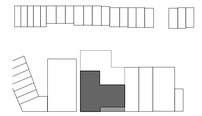
DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

FINISH FLOOR PLAN - 7TH-9TH FLOOR + ROOF

REGISTERED ARCHITECT JONATHAN JOVA MARVEL No. 021490 STATE OF NEW YORK

DRAWING #: A-114 00

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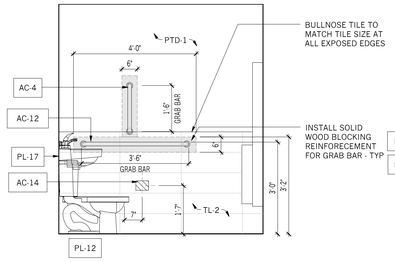
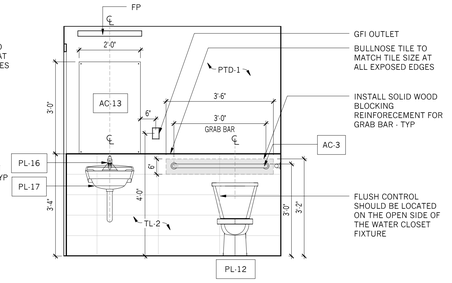
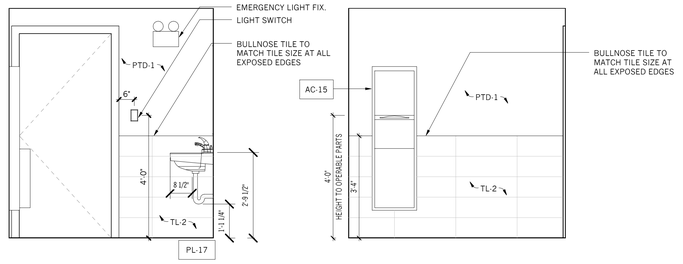
DOB ##### ZONE



15 ELEV 4 - B-C
1/2" = 1'-0"

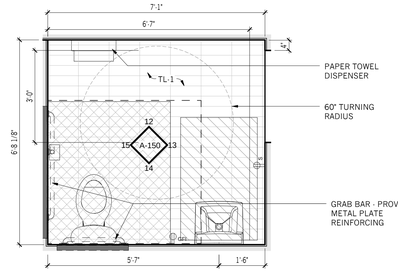


14 ELEV 3 - B-C
1/2" = 1'-0"

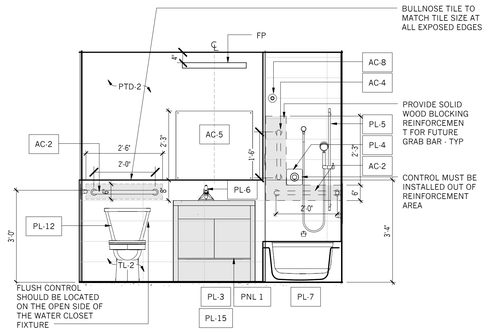


13 ELEV 2 - B-C
1/2" = 1'-0"

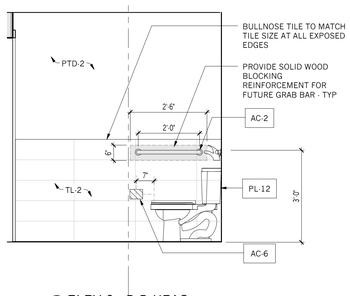
12 ELEV 1 - B-C
1/2" = 1'-0"



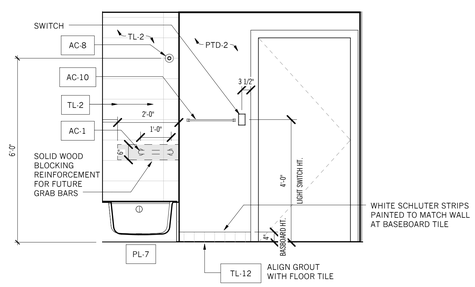
11 PLAN - B-C
1/2" = 1'-0"



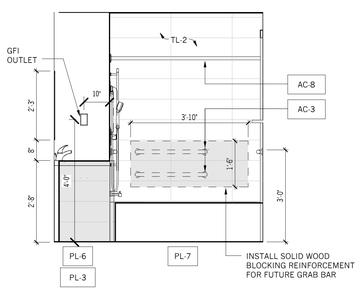
10 ELEV 4 - B-B UFAS
1/2" = 1'-0"



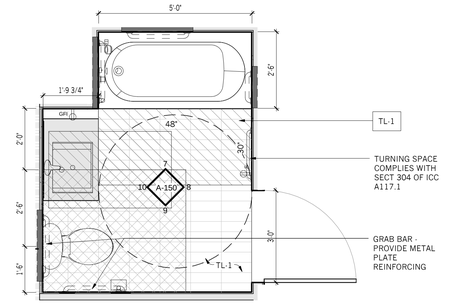
9 ELEV 3 - B-B UFAS
1/2" = 1'-0"



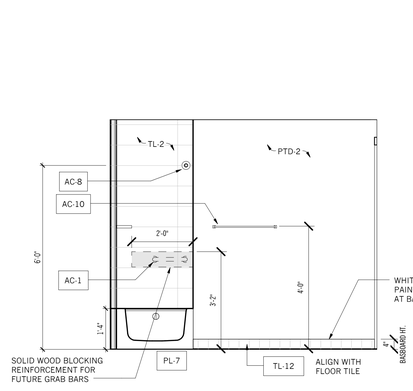
8 ELEV 2 - B-B UFAS
1/2" = 1'-0"



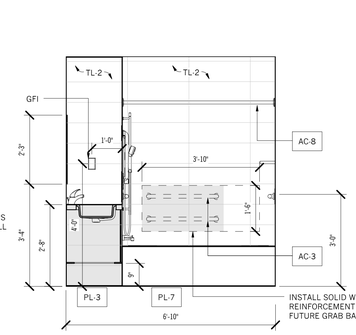
7 ELEV 1 - B-B UFAS
1/2" = 1'-0"



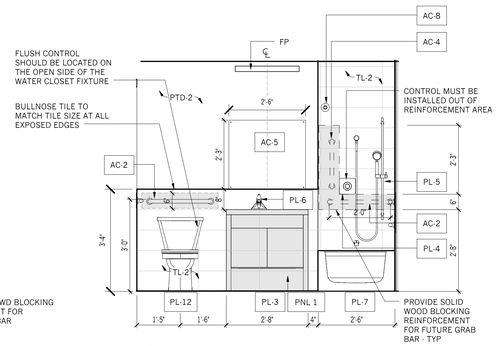
2 PLAN - B-B UFAS
1/2" = 1'-0"



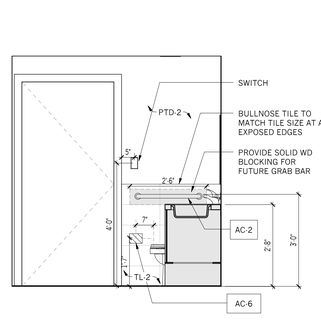
6 ELEV 4 - B-A
1/2" = 1'-0"



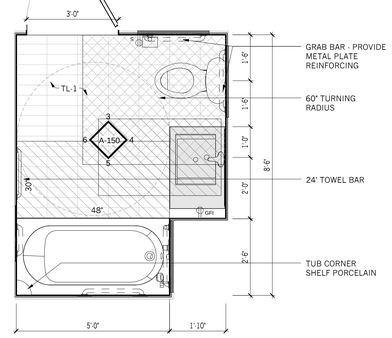
5 ELEV 3- B-A
1/2" = 1'-0"



4 ELEV 2 - B-A
1/2" = 1'-0"



3 ELEV 1 - B-A
1/2" = 1'-0"



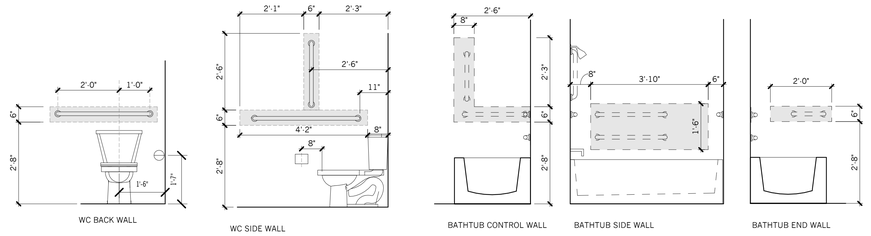
1 PLAN - B-A
1/2" = 1'-0"

LEGEND

- Bathtub Clearance - 30" x Length of Tub (Parallel Approach)
- Water Closet Clearance - 48"x56" (Parallel Approach)
- Lavatory Clearance - 30"x48" (Forward Approach)
- Filled areas indicate removable base cabinet at lavatory. Knee and Toe Clearance after cabinet removed per ANSI 306. Removable cabinet below vanity required to provide maneuvering clearance beyond swing door, and centered forward approach at lav.
- Door Clearance - As noted

1. All details shall comply with: NYC BC 2008Chapter 11 Accessibility and Appendix P R-2 Occupancy Toilet & Bathing Facility Requirements; ICC/ANSI 117.1-2003 Accessible and Useable Buildings and Facilities; and Fair Housing Act accessibility regulations.
2. All Bathrooms shall be NYC BC Appendix P Bathrooms.
3. "Bathroom Type B" bathrooms shall comply with the Uniform Federal Accessibility Standards.
4. Reinforcing for future grab bars shall be provided at all bathroom locations.
5. Grab bars shall NOT be installed.
6. All bathroom doors and fixtures to comply with clearances indicated above
7. Medicine Cabinet bottom must be 3'-4" max. A.F.F.
8. Vanity must be floor mounted.

TYPICAL REINFORCED AREAS FOR INSTALLATION OF GRAB BARS FOR UFAS UNITS



TYPICAL BATHROOM RENDERING

DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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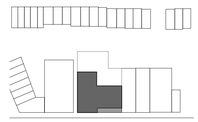
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

ENLARGED PLANS - BATHROOMS

REGISTERED ARCHITECT
JONATHAN JOVE MARVEL
No. 026280
STATE OF NEW YORK

DRAWING #: A-150 00

41 of 92

DOB ##### ZONE

1/29/2016 4:24:37 PM

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

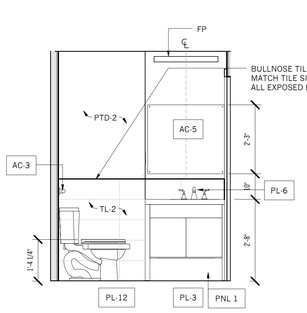
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

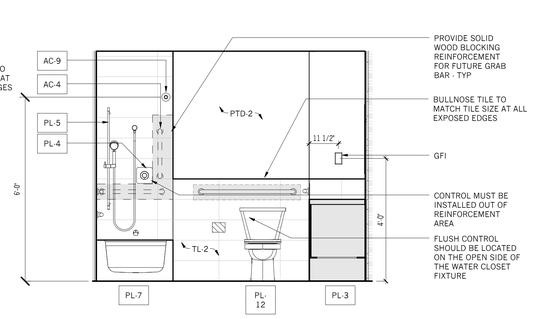
CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

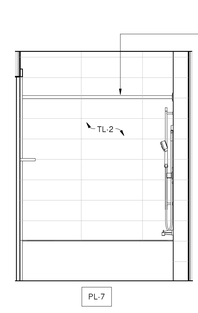
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**



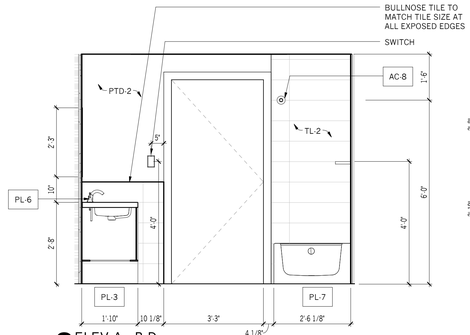
5 ELEV D - B-D
1/2" = 1'-0"



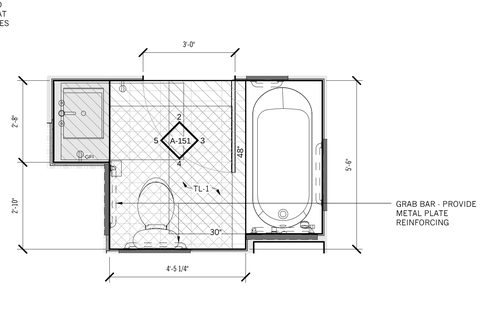
4 ELEV C - B-D
1/2" = 1'-0"



3 ELEV B - B-D
1/2" = 1'-0"



2 ELEV A - B-D
1/2" = 1'-0"



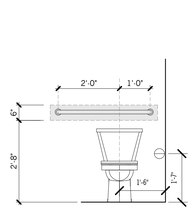
1 PLAN - B-D
1/2" = 1'-0"

LEGEND

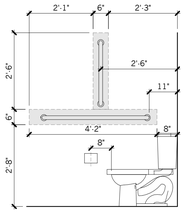
- Bathtub Clearance - 30" x Length of Tub (Parallel Approach)
- Lavatory Clearance - 30"x48" (Forward Approach)
- Door Clearance - As noted
- Water Closet Clearance - 48"x56" (Parallel Approach)
- Filled areas indicate removable base cabinet at lavatory. Knee and Toe Clearance after cabinet removed per ANSI 306. Removable cabinet below vanity required to provide maneuvering clearance beyond swing door, and centered forward approach at lav.

1. All details shall comply with: NYC BC 2008Chapter 11 Accessibility and Appendix P R-2 Occupancy Toilet & Bathing Facility Requirements; ICC/ANSI 117.1-2003 Accessible and Useable Buildings and Facilities; and Fair Housing Act accessibility regulations.
2. All Bathrooms shall be NYC BC Appendix P Bathrooms.
3. "Bathroom Type B" bathrooms shall comply with with the Uniform Federal Accessibility Standards.
4. Reinforcing for future grab bars shall be provided at all bathroom locations.
5. Grab bars shall NOT be installed.
6. All bathroom doors and fixtures to comply with clearances indicated above
7. Medicine Cabinet bottom must be 3'-4" max. A.F.F.
8. Vanity must be floor mounted.

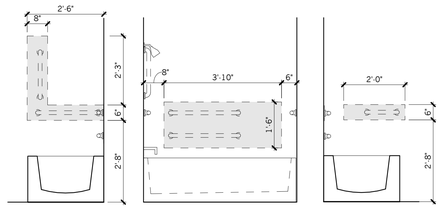
TYPICAL REINFORCED AREAS FOR INSTALLATION OF GRAB BARS FOR UFAS UNITS



WC BACK WALL



WC SIDE WALL

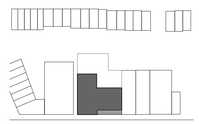


BATHTUB CONTROL WALL BATHTUB SIDE WALL BATHTUB END WALL

TYPICAL BATHROOM RENDERING

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

ENLARGED PLANS - BATHROOMS

DRAWING #: A-151 00

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DOB ##### ZONE

DOB STAMP ZONE

1/29/2016 4:24:44 PM

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

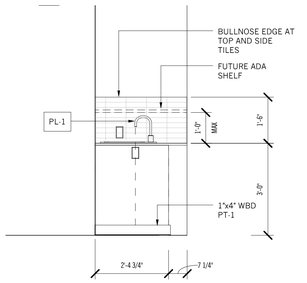
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

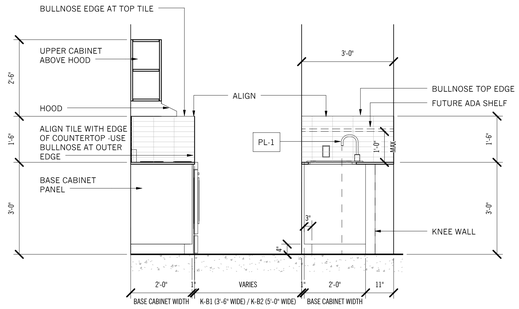
CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

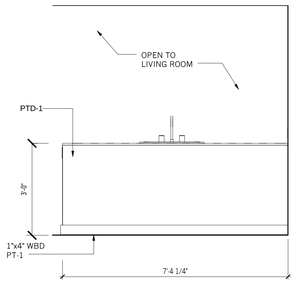
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**



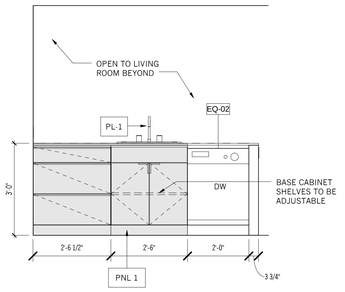
12 K-B - ELEV E
1/2" = 1'-0"



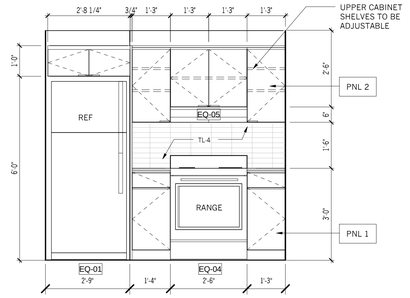
11 K-B - ELEV D
1/2" = 1'-0"



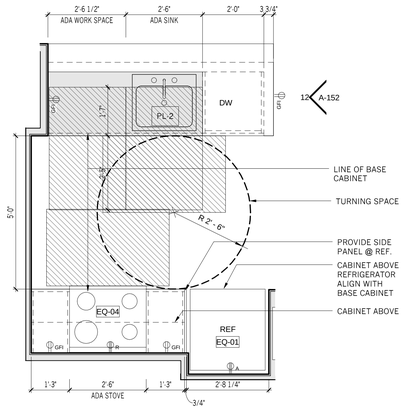
10 K-B - ELEV C
1/2" = 1'-0"



9 K-B - ELEV B
1/2" = 1'-0"

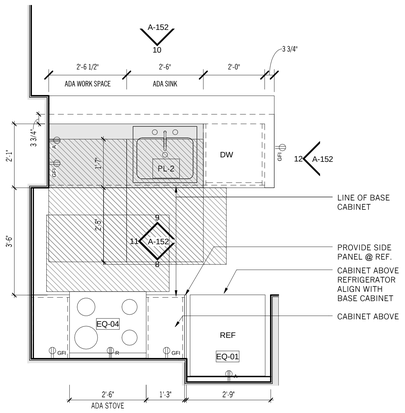


8 K-B - ELEV A
1/2" = 1'-0"

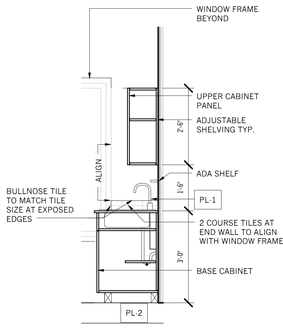


7 PLAN - K-B2
1/2" = 1'-0"

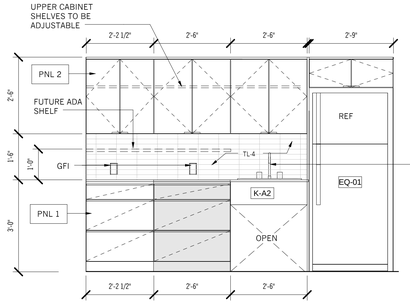
NOTE: SEE A-152 DTL 8-12 FOR ELEVATION



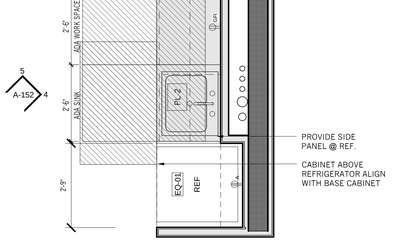
6 PLAN - K-B1
1/2" = 1'-0"



5 K-A2 - ELEV B
1/2" = 1'-0"



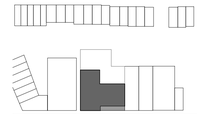
4 K-A2 - ELEV A
1/2" = 1'-0"



3 PLAN - K A2 (LOUNGE)
1/2" = 1'-0"

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

ENLARGED PLANS - KITCHENS

REGISTERED ARCHITECT JONATHAN JOVA MARVEL No. 021401 STATE OF NEW YORK

DRAWING #: A-152 00

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DOB ##### ZONE

DOB STAMP ZONE

LEGEND

Filled areas indicate future removable base cabinets at adaptable sink and work surface. Top of counter at these areas to be adjustable or replaced to 2'-10" A.F.F.
NOT FOR CONTRACTOR

30" x 48" hatched areas indicate required clear approaches to work surfaces and appliances

Future ADA Shelf. Provide blocking for future installation.

KITCHEN TYPE AREAS		
KITCHEN TYPE	AREA	KITCHEN/KITCHENETTE PER NYC BUILDING CODE 2008 1202.1
K-A1	30 SF	KITCHENETTE
K-A2	23 SF	KITCHENETTE
K-B1	67 SF	KITCHENETTE
K-B2	80 SF	KITCHEN
K-B3	57 SF	KITCHENETTE
K-C	73 SF	KITCHENETTE

1. Per ANSI 117.1 1003.12.1 and FHA (Fair Housing Act), provide 40" clearance between opposing counters, walls and appliances at pass-through kitchens, and 60" clearance at "U-shaped" kitchens.

2. Per ANSI 117.1 1003.12.3, provide 30" wide work surface with removable base cabinets and counter height adjustable to 34" AFF. Extend floor finish under base cabinet and finish inside surrounding cabinet.

3. Per ANSI 117.1 1003.12.4 provide 30" wide removable base cabinets at sink with counter height adjustable to 34" AFF. Extend floor finish under base cabinet and finish inside surrounding cabinet.

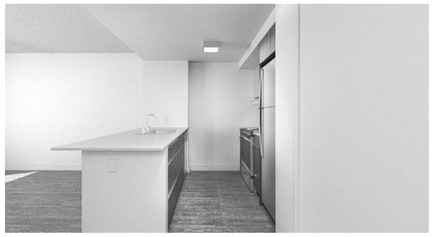
4. Per ANSI 11.7 1003.12.6.2, provide 30"x48" clear floor space for either forward or parallel approach as required at appliances and fixtures, and as indicated on the drawings. Per FHA, provide 30"x48" clear floor spaces parallel to centered on sink and range.

5. Per FHA, power receptacles located above counters to be max 44" AFF.

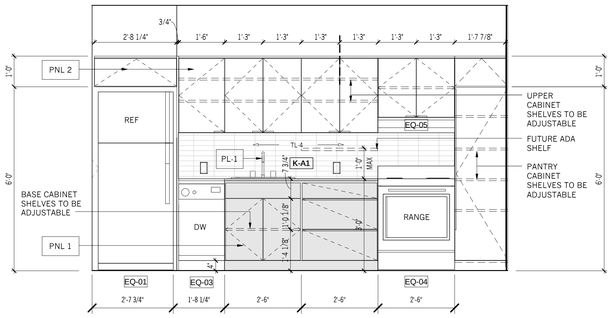
6. Add/Alt standard 35 mm jamb mounted cup hinge doors at upper cabinets.

Exception: Where the storage shelf or cabinet is not provided in accordance with this section, the owner shall install such storage shelf or cabinet in compliance with this section at the time a person with physical disabilities takes occupancy of the unit, or within 10 days of the date the request is made by a person with physical disabilities, whichever is later, at the owner's expense.

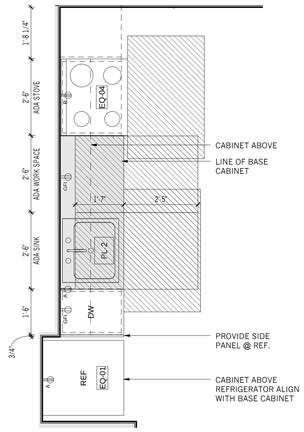
TYPICAL KITCHEN TYPE A (K-A) RENDERING



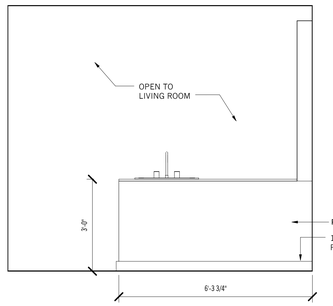
TYPICAL KITCHEN TYPE B (K-B) RENDERING VIEW 1



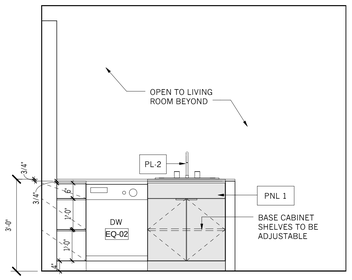
2 K-A1 - ELEV A
1/2" = 1'-0"



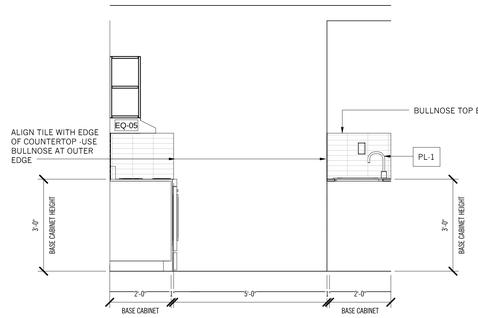
1 PLAN - K-A1
1/2" = 1'-0"



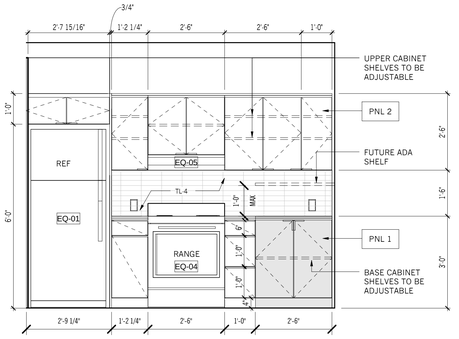
14 K-C - ELEV C
1/2" = 1'-0"



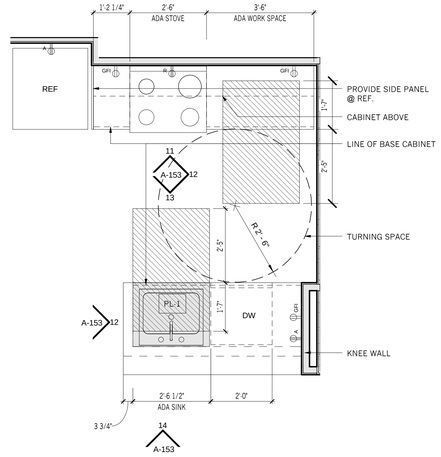
13 K-C - ELEV B
1/2" = 1'-0"



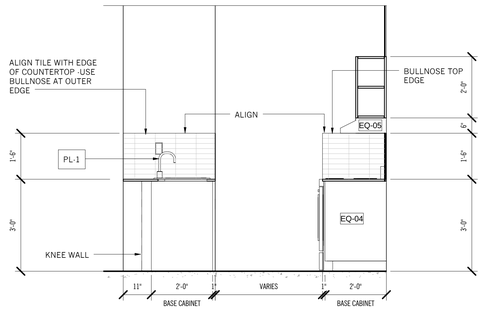
12 K-C ELEV B
1/2" = 1'-0"



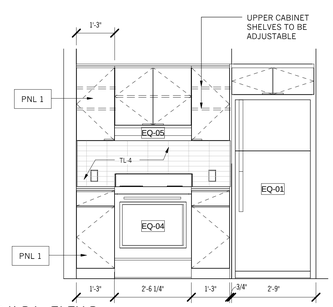
11 K-C - ELEV A
1/2" = 1'-0"



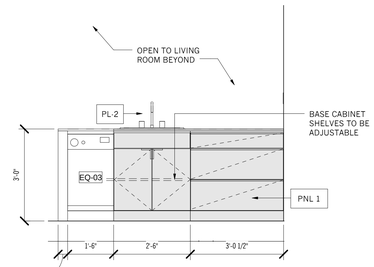
10 PLAN - K-C
1/2" = 1'-0"



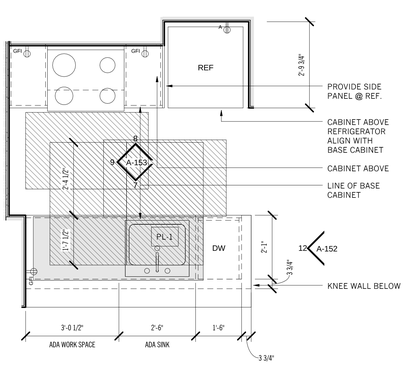
9 K-B4 - ELEV C
1/2" = 1'-0"



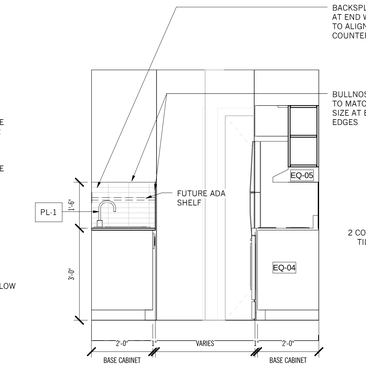
8 K-B4 - ELEV B
1/2" = 1'-0"



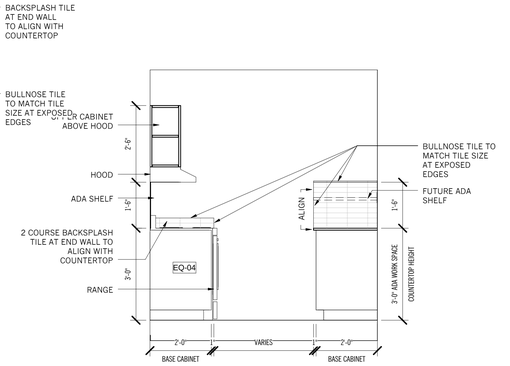
7 K-B4 - ELEV A
1/2" = 1'-0"



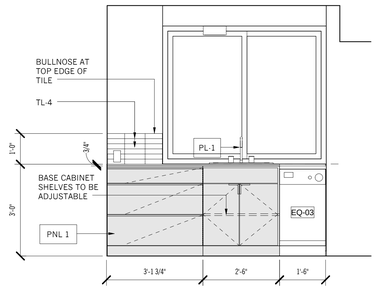
6 PLAN - K-B4
1/2" = 1'-0"



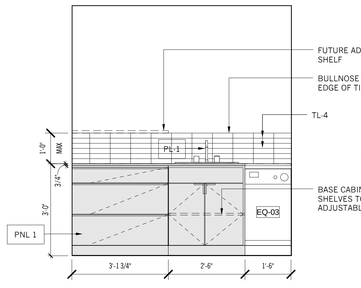
5 K-B3 - ELEV C
1/2" = 1'-0"



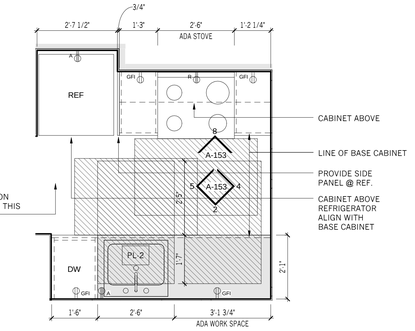
4 K-B3 - ELEV B
1/2" = 1'-0"



3 K-B3 - ELEV A - FLOOR 7-9
1/2" = 1'-0"



2 K-B3 - ELEV A - FLOOR 1-6
1/2" = 1'-0"



1 PLAN - K-B3
1/2" = 1'-0"

LEGEND

Filled areas indicate future removable base cabinets at adaptable sink and work surface. Top of counter at these areas to be adjustable or replaced to 2'-10" A.F.F.
NOT FOR CONTRACTOR

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Future ADA Shelf. Provide blocking for future installation.

KITCHEN TYPE AREAS		
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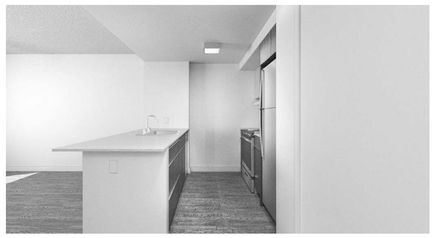
TYPICAL KITCHEN TYPE A (K-A) RENDERING



TYPICAL KITCHEN TYPE B (K-B) RENDERING VIEW 1

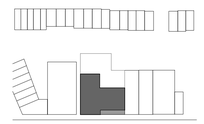
DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED
OWNER ATHENA HOUSING ASSOCIATES LLC.
STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.
MEP ENGINEER EP ENGINEERING
CODE CONSULTING DESIGN 2147
ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES
LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

ENLARGED PLANS - KITCHENS

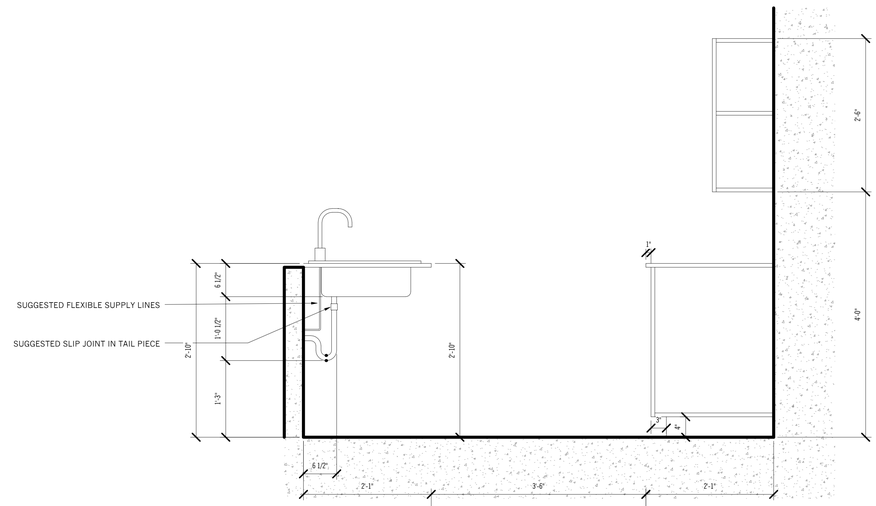
REGISTERED ARCHITECT
JONATHAN JOVA MARVEL
No. 021480
STATE OF NEW YORK

DRAWING #: A-153 00

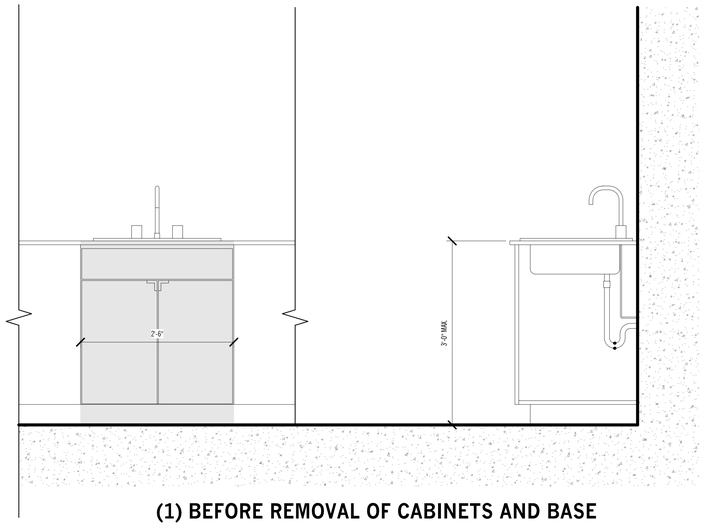
44 of 92

DOB ##### ZONE

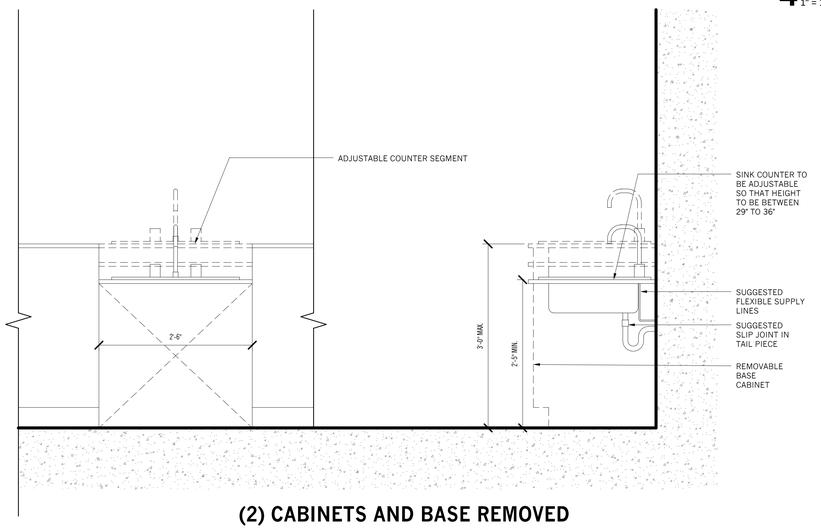
1/29/2016 4:24:59 PM



4 KITCHEN CLEARANCE DIMENSIONS - ADJUSTABLE OR REPLACEABLE KITCHEN COUNTER
1" = 1'-0"

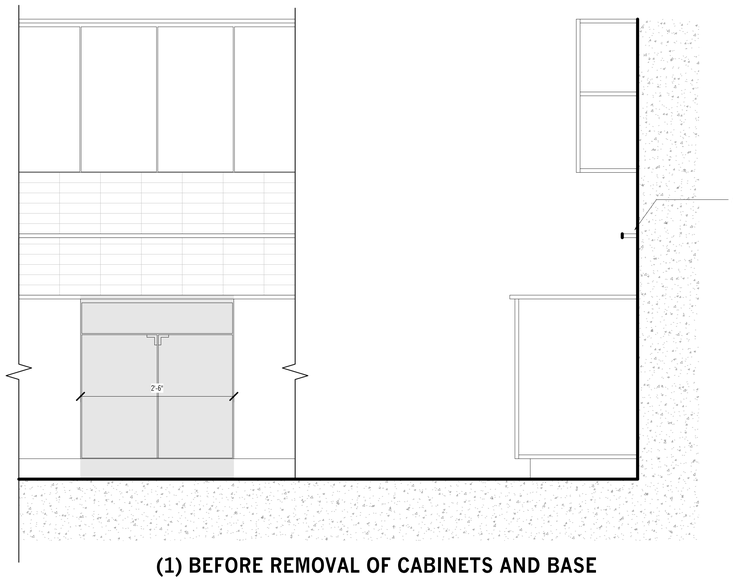


(1) BEFORE REMOVAL OF CABINETS AND BASE

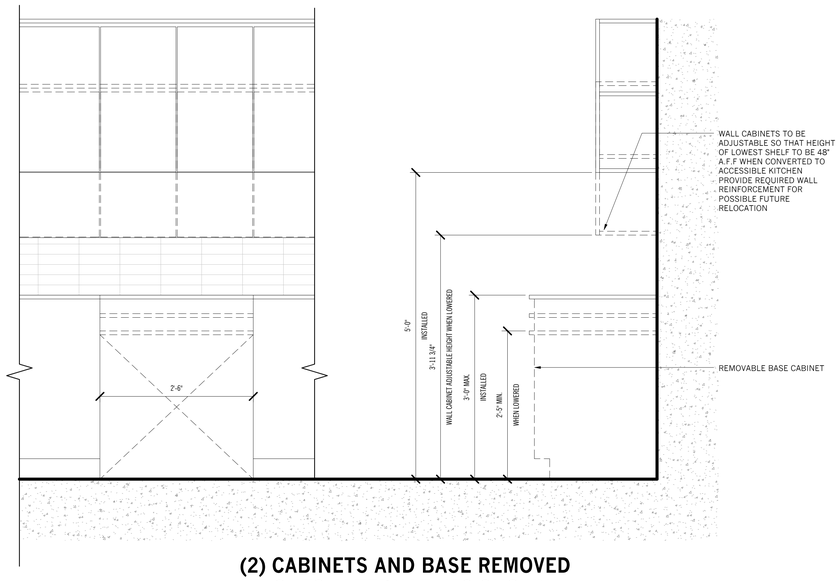


(2) CABINETS AND BASE REMOVED HEIGHTS ALTERNATIVES SHOWN

3 COUNTER ADA KITCHEN SINK - ADJUSTABLE OR REPLACEABLE KITCHEN COUNTER
1" = 1'-0"

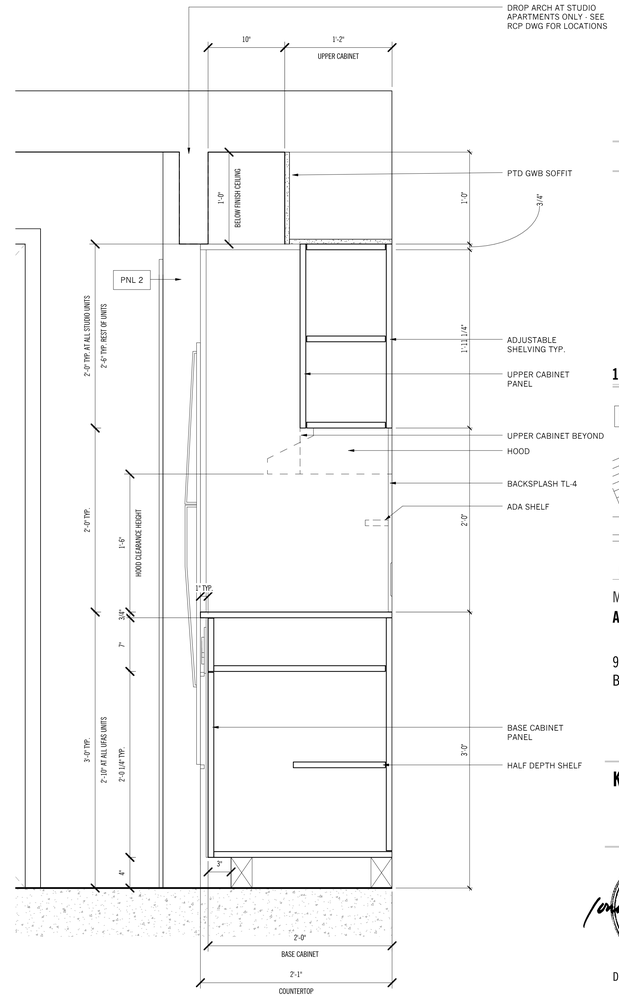


(1) BEFORE REMOVAL OF CABINETS AND BASE



(2) CABINETS AND BASE REMOVED HEIGHTS ALTERNATIVES SHOWN

2 COUNTER ADA WORK SPACE - ADJUSTABLE OR REPLACEABLE KITCHEN COUNTER
1" = 1'-0"



1 K-A1 AND A2 - ELEV B
1 1/2" = 1'-0"

DOB STAMP ZONE

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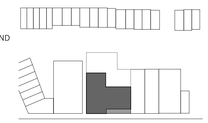
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

KITCHEN DETAILS

REGISTERED ARCHITECT
JONATHAN JOSEPH MARVEL
No. 026280
STATE OF NEW YORK

DRAWING #: A-154 00

45 of 92

DOB ##### ZONE

1/29/2016 4:25:04 PM

WireCrafters

BICYCLE WALL RIDER

End Bicycle Clutter Once and For All.

Strong. Secure. Attractive…and Organized. The Bicycle Wall Rider from WireCrafters is the ideal way to provide stable, vertical bike storage on unused existing walls.

Easy to Store. Now your tenants have a quick and easy vertical way to store their bikes – and all you need is what you already have – wall space. The Bicycle Wall Rider from WireCrafters safely and securely hangs bikes vertically, accommodating virtually any bike. Made of 1/8" thick steel, finished in black enamel, with a protective, stain-resistant vinyl sleeve on the hanger to help prevent wheel rim scuffing or scratching, the Bicycle Wall Rider from WireCrafters gets bikes out of the way, once and for all.

The Bicycle Wall Rider from WireCrafters…

- Strong…made of heavy-duty 11-gauge (1/8" thick) steel.
- Precision laser cut and formed.
- Easily installs…two 1/2" round holes for wall mounting.
- Ideal for residential, institutional and commercial use.
- Heavy duty 1/4" vinyl-coated aircraft quality 5' cable is permanently connected to mounting base for securing stored bicycles. Cable has permanent loop at free end for user's lock. Clear vinyl coating on cable protects bicycle finish during use.

NOTE: For best results when mounting to sheetrock, a horizontal header board may need to be installed (not included). See installation instructions or contact your sales representative for more information about mounting on sheetrock.

Dimensions:
Base Length: 8"
Base Width: 3"
Overall width including cable/lock eye: 4-3/4"
Cable/lock eye: 3/4" round hole
Arm projection from wall: 5-1/4"
Arm width: 1"
Arm length: 2"
Arm length overall: 2-3/4"
Optional Cable: 1/4" vinyl coated aircraft quality 5' long cable (must be ordered with the Bicycle Wall Rider from WireCrafters)

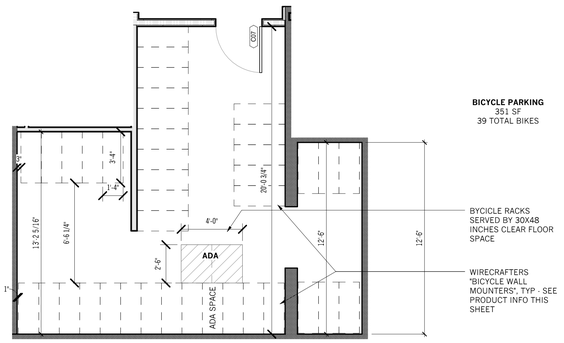
Mounting hardware not included.

Mounting Bracket

Bicycle In Mounting Bracket

6208 Strawberry Lane
Louisville, KY 40214
800-626-1816
www.wirecrafters.com

WireCrafters®



BICYCLE PARKING
351 SF
39 TOTAL BIKES

1 PLAN - BIKE STORAGE
1/4" = 1'-0"

DOB STAMP ZONE

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CLIENT HUDSON COMPANIES INCORPORATED
OWNER ATHENA HOUSING ASSOCIATES LLC.
STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.
MEP ENGINEER EP ENGINEERING
CODE CONSULTING DESIGN 2147
ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES
LANDSCAPE ABEL BAINNSON BUTZ, LLP

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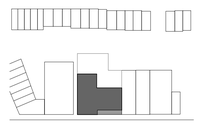
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

ENLARGED PLANS - BICYCLE STORAGE AREA

DRAWING #: A-155 00

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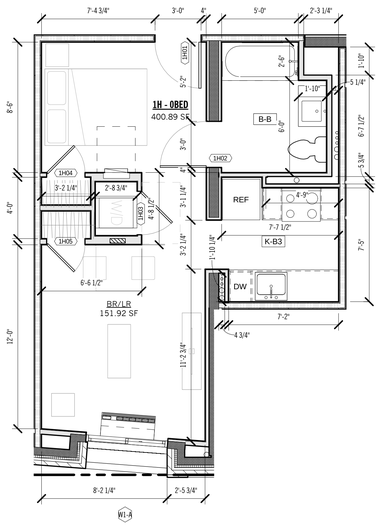
DOB ##### ZONE

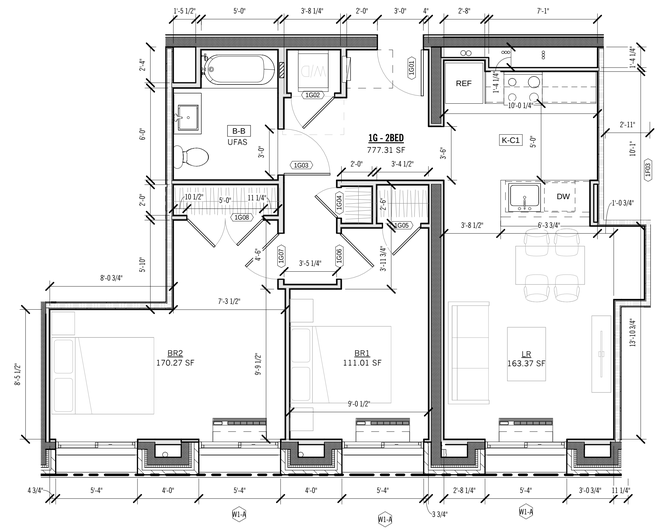
1/29/2016 4:25:07 PM

GENERAL PLAN NOTES

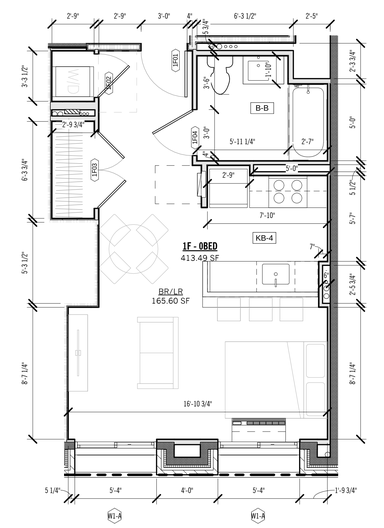
1. REFER TO A-150 SERIES FOR KITCHENS AND BATHROOMS



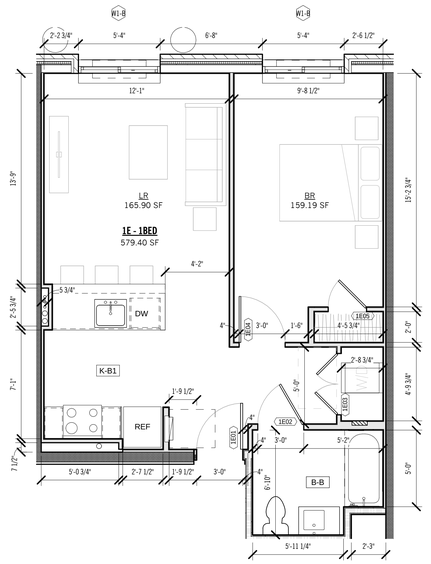
8 UNIT TYPE H - 0BED - (TYPICAL UNIT FLOOR 1-9)
1/4" = 1'-0"



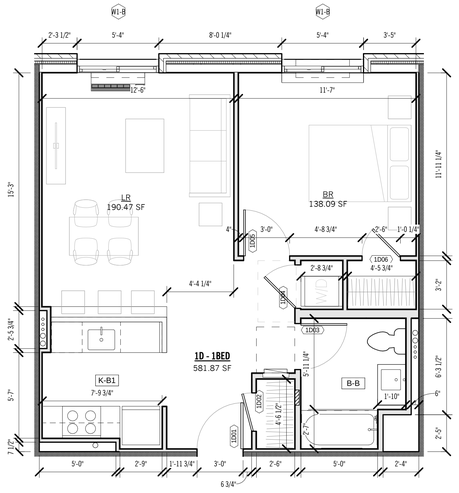
7 UNIT TYPE G - 2BED - (TYPICAL UNIT FLOOR 1-6)
1/4" = 1'-0"



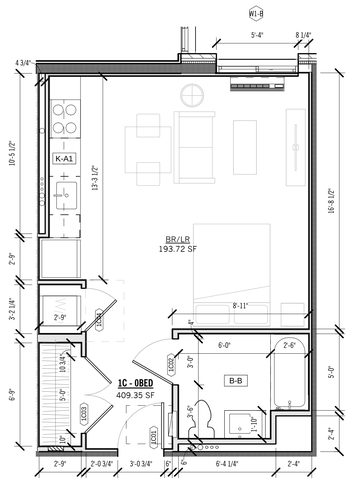
6 UNIT TYPE F - 0BED - (TYPICAL UNIT FLOOR 1-6)
1/4" = 1'-0"



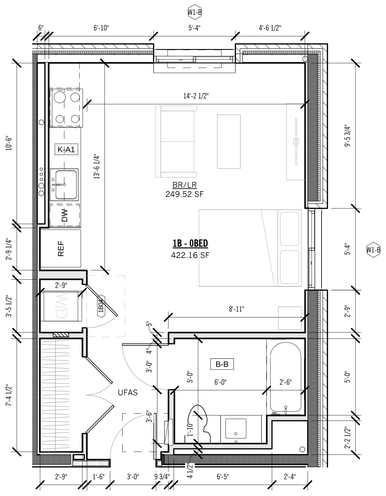
5 UNIT TYPE E - 1BED - (TYPICAL UNIT FLOOR 1-6)
1/4" = 1'-0"



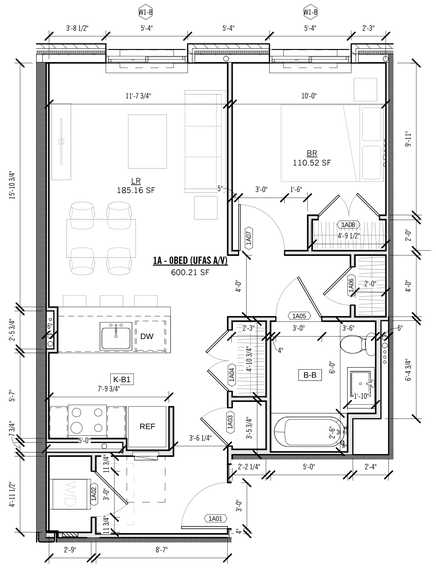
4 UNIT TYPE D-1BED - (TYPICAL UNIT FLOOR 1-9)
1/4" = 1'-0"



3 UNIT TYPE C-0BED - (TYPICAL UNIT FLOOR 1-9)
1/4" = 1'-0"



2 UNIT TYPE B-0BED - (TYPICAL UNIT FLOOR 1-9)
1/4" = 1'-0"



1 UNIT TYPE A-1BED - (TYPICAL UNIT FLOOR 1-9)
1/4" = 1'-0"

DOB STAMP ZONE

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CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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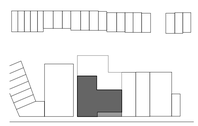
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

ENLARGED RESIDENTIAL FLOOR PLANS - UNIT TYPES

REGISTERED ARCHITECT
JONATHAN JOSHUA MARVEL
No. 021490
STATE OF NEW YORK

DRAWING #: A-156 00

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DOB ##### ZONE

1/29/2016 4:25:15 PM

GENERAL PLAN NOTES

1. REFER TO A-150 SERIES FOR KITCHENS AND BATHROOMS

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STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

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ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

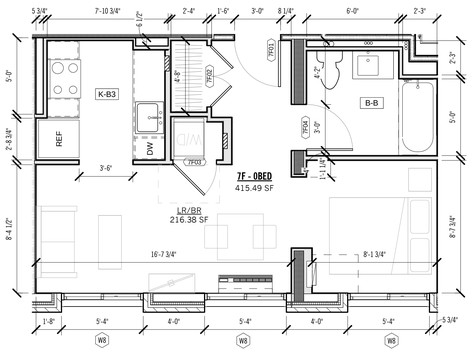
KEY PLAN:NTS

MA PROJECT NO. 1505

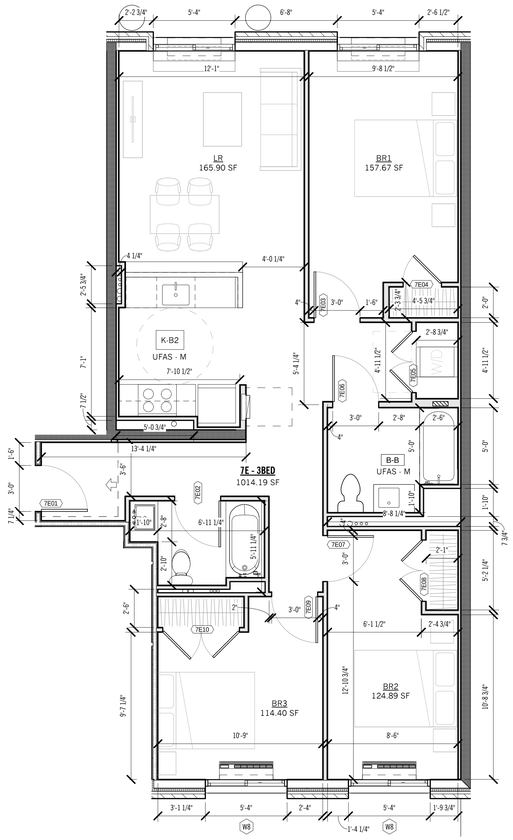
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

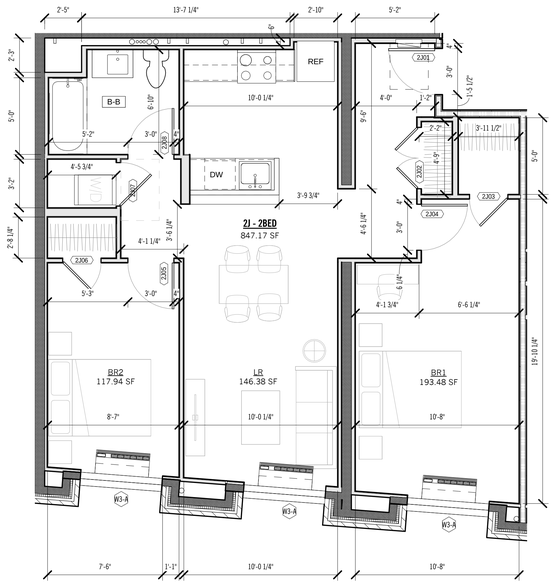
ENLARGED RESIDENTIAL FLOOR PLANS - UNIT TYPES



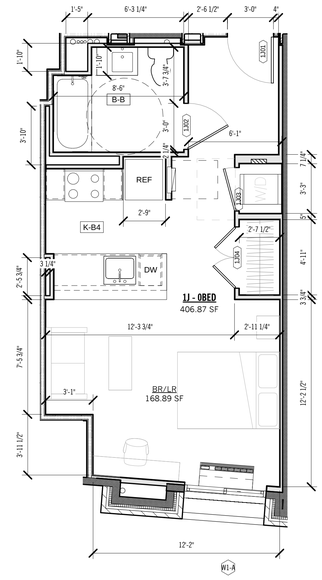
4 UNIT TYPE F - 0BED - (TYPICAL UNIT FLOOR 7-9)
1/4" = 1'-0"



3 UNIT TYPE E-3BED - (TYPICAL UNIT FLOOR 7-9)
1/4" = 1'-0"



2 UNIT TYPE J-2BED - (TYPICAL UNIT FLOOR 2-9)
1/4" = 1'-0"



1 UNIT TYPE J-0BED - (TYPICAL UNIT FLOOR 1)
1/4" = 1'-0"

DRAWING #: A-157 00

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DOB STAMP ZONE

DOB ##### ZONE

1/29/2016 4:25:22 PM

1 REFLETED CEILING PLAN - CELLAR
1/4" = 1'-0"

LIGHTING FIXTURE LEGEND

NO.	TYPE	DESCRIPTION
1	FA	UTILITY GRADE 48" PENDANT, SUSPENDED
2	FB	48" LINEAR, VERTICAL WALL MTD
3	FC	24" LINEAR SCONCE, HORIZ WALL MTD
4	FD	13" DIA. DOWNLIGHT, SURFACE MTD
5	FE	36" LINEAR LIGHT, CEILING MTD
6	FF	9"X9"DIA. DOWNLIGHT, SURFACE MTD
7	FG	6"X6" DOWNLIGHT, RECESSED
8	FH	48" LINEAR, RECESSED
9	FJ	WALL MOUNTED, ELEVATOR PIT
10	FK	EXT GRADE SCONCE, HIGH WALL MTD
11	FL	EXT GRADE RECESSED DOWN LIGHT
12	FM	24" LINEAR, CEILING MTD
13	FN	INT 2'X2' ACT RECESSED, CEILING MTD
14	FP	SURFACE MTD
15	FQ	EMERGENCY LIGHTS
16	FR	24" LINEAR, RECESSED

NOTE:

1. FOR ALL OPENINGS IN CMU WALLS- REFER TO STRUCTURAL DRAWINGS FOR LINTEL SIZE
2. DEDUCT/ALT: CLEAR COAT FINISH AT CEILINGS FOR ALL DWELLING UNIT LIVING AND BEDROOMS
3. ALL CEILING COMPONENTS TO BE INSTALLED ON CENTER U.O.N.
4. ALL CEILING ELEVATIONS MEASURED FROM FINISHED FLOOR
5. SOFFIT ABOVE UPPER CABINETS OVER COUNTERS AT ALL KITCHEN TYPES TO BE 14" - TYP
6. ALL EXPOSED PLANK CEILINGS IN APARTMENTS AND COMMON AREAS SHOULD RECEIVED KKEPC SMOOTH FINISH AND FLAT FINISH PAINT

CEILING LEGEND

SYMBOL	DESCRIPTION
	STANDARD PENDANT SPRINKLER HEAD - SEE SP DWGS
	CONCEALED PENDANT SPRINKLER HEAD - SEE SP DWGS
	HIGH TEMPERATURE SPRINKLER HEAD - SEE SP DWGS
	HORIZONTAL SIDEWALL SPRINKLER HEAD - SEE SP DWGS
	SECURITY CAMERA - SEE SEC DWGS
EXIT	EXIT SIGN - # OF FACES FILLED-IN - SEE ELEC DWGS
SC	SMOKE/CARBON MONOXIDE DETECTOR - SEE ELEC DWGS
S	SMOKE DETECTOR - SEE FA DWGS
	VACANCY SENSORS - SEE ELEC DWGS
	LINEAR SUPPLY DIFFUSER - SEE MECH DWGS
	SUPPLY DIFFUSER - SEE MECH DWGS
	RETURN DIFFUSER - SEE MECH DWGS
	VRF - DAIKON 4-WAY CASSETTE - SEE MECH DWGS
	EXHAUST VENT - SEE MECH DWGS
	SIDE WALL EXHAUST VENT - SEE MECH DWGS
	GWB CLG - SEE FINISH SCHEDULE
B	GWB CLG - DIRECT FURRED
	ACT CLG - *U.O.N.* - SEE FINISH SCHEDULE
	TL-6 - SEE FINISH SCHEDULE
	ACCESS PANEL - 18"X24" *U.O.N.*
	GWB SUSPENDED CEILING & SOFFIT
	7'-0" AFF UNLESS NOTED OTHERWISE
	7'-6" AFF
	8'-0" AFF
	8'-6" AFF
	9'-0" AFF

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CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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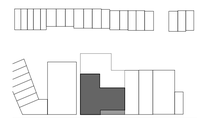
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

REFLECTED CEILING PLAN - CELLAR

DRAWING #: A-200 00

49 of 92

DOB ##### ZONE

DOB STAMP ZONE

1/29/2016 4:25:38 PM

1 REFLETED CEILING PLAN - 1ST FLOOR
1/4" = 1'-0"

LIGHTING FIXTURE LEGEND

NO.	TYPE	DESCRIPTION
1	FA	UTILITY GRADE 48" PENDANT, SUSPENDED
2	FB	48" LINEAR, VERTICAL WALL MTD
3	FC	24" LINEAR SCONCE, HORIZ WALL MTD
4	FD	13" DIA. DOWNLIGHT, SURFACE MTD
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7	FG	6"X6" DOWNLIGHT, RECESSED
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15	FQ	EMERGENCY LIGHTS
16	FR	24" LINEAR, RECESSED

NOTE:

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2. DEDUCT/ALT: CLEAR COAT FINISH AT CEILINGS FOR ALL DWELLING UNIT LIVING AND BEDROOMS
3. ALL CEILING COMPONENTS TO BE INSTALLED ON CENTER U.O.N.
4. ALL CEILING ELEVATIONS MEASURED FROM FINISHED FLOOR
5. SOFFIT ABOVE UPPER CABINETS OVER COUNTERS AT ALL KITCHEN TYPES TO BE 14" - TYP
6. ALL EXPOSED PLANK CEILINGS IN APARTMENTS AND COMMON AREAS SHOULD RECEIVED KKEPC SMOOTH FINISH AND FLAT FINISH PAINT

CEILING LEGEND

SYMBOL	DESCRIPTION
	STANDARD PENDANT SPRINKLER HEAD - SEE SP DWGS
	CONCEALED PENDANT SPRINKLER HEAD - SEE SP DWGS
	HIGH TEMPERATURE SPRINKLER HEAD - SEE SP DWGS
	HORIZONTAL SIDEWALL SPRINKLER HEAD - SEE SP DWGS
SEC	SECURITY CAMERA - SEE SEC DWGS
EXIT	EXIT SIGN - # OF FACES FILLED-IN - SEE ELEC DWGS
SC	SMOKE/CARBON MONOXIDE DETECTOR - SEE ELEC DWGS
S	SMOKE DETECTOR - SEE FA DWGS
	VACANCY SENSORS - SEE ELEC DWGS
	LINEAR SUPPLY DIFFUSER - SEE MECH DWGS
	SUPPLY DIFFUSER - SEE MECH DWGS
	RETURN DIFFUSER - SEE MECH DWGS
	VRF - DAIKON 4-WAY CASSETTE - SEE MECH DWGS
	EXHAUST VENT - SEE MECH DWGS
	SIDE WALL EXHAUST VENT - SEE MECH DWGS
A	GWB CLG - SEE FINISH SCHEDULE
B	GWB CLG - DIRECT FURRED
	ACT CLG - *U.O.N.* - SEE FINISH SCHEDULE
	TL-6 - SEE FINISH SCHEDULE
ACP	ACCESS PANEL - 18"X24" *U.O.N.*
	GWB SUSPENDED CEILING & SOFFIT
	7'-0" AFF UNLESS NOTED OTHERWISE
	7'-6" AFF
	8'-0" AFF
	8'-6" AFF
	9'-0" AFF

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CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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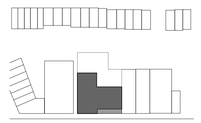
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

REFLECTED CEILING PLAN - GROUND FLOOR

REGISTERED ARCHITECT JONATHAN JOHN MARVEL No. 021450 STATE OF NEW YORK

DRAWING #: A-201.00

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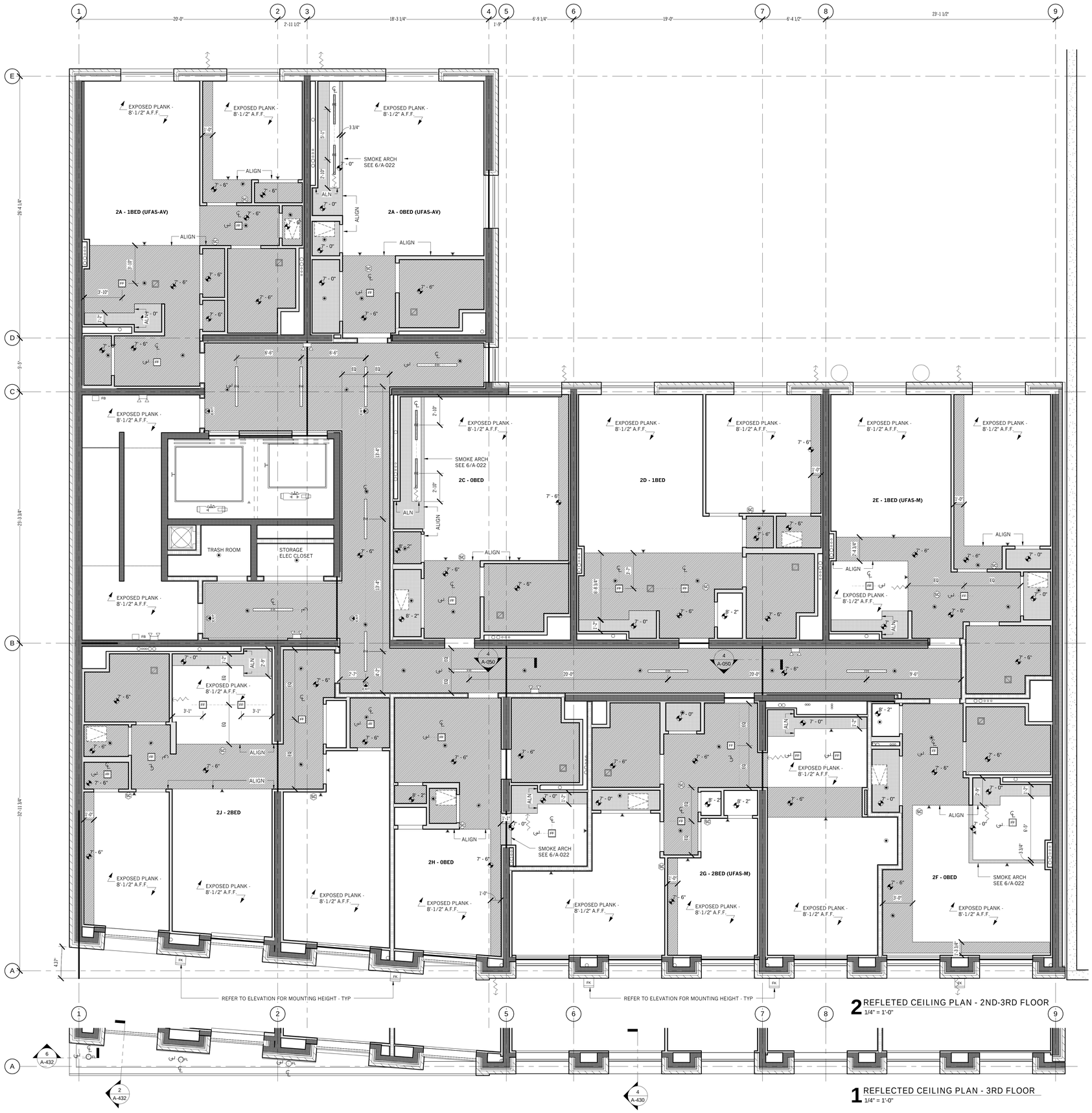
DOB STAMP ZONE

DOB ##### ZONE

1/29/2016 4:25:48 PM



LIGHTING FIXTURE LEGEND		
NO.	TYPE	DESCRIPTION
1	FA	UTILITY GRADE 48" PENDANT, SUSPENDED
2	FB	48" LINEAR, VERTICAL WALL MTD
3	FC	24" LINEAR SCONCE, HORIZ WALL MTD
4	FD	13" DIA. DOWNLIGHT, SURFACE MTD
5	FE	36" LINEAR LIGHT, CEILING MTD
6	FF	9"X9"DIA. DOWNLIGHT, SURFACE MTD
7	FG	6"X6" DOWNLIGHT, RECESSED
8	FH	48" LINEAR, RECESSED
9	FJ	WALL MOUNTED, ELEVATOR PIT
10	FK	EXT GRADE SCONCE, HIGH WALL MTD
11	FL	EXT GRADE RECESSED DOWN LIGHT
12	FM	24" LINEAR, CEILING MTD
13	FN	INT 2'X2' ACT RECESSED, CEILING MTD
14	FP	SURFACE MTD
15	FQ	EMERGENCY LIGHTS
16	FR	24" LINEAR, RECESSED

NOTE:

1. FOR ALL OPENINGS IN CMU WALLS- REFER TO STRUCTURAL DRAWINGS FOR LINTEL SIZE
2. DEDUCT/ALT: CLEAR COAT FINISH AT CEILINGS FOR ALL DWELLING UNIT LIVING AND BEDROOMS
3. ALL CEILING COMPONENTS TO BE INSTALLED ON CENTER U.O.N.
4. ALL CEILING ELEVATIONS MEASURED FROM FINISHED FLOOR
5. SOFFIT ABOVE UPPER CABINETS OVER COUNTERS AT ALL KITCHEN TYPES TO BE 14" - TYP
6. ALL EXPOSED PLANK CEILINGS IN APARTMENTS AND COMMON AREAS SHOULD RECEIVED KKEPC SMOOTH FINISH AND FLAT FINISH PAINT

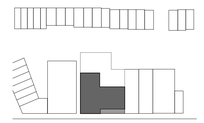
CEILING LEGEND	
SYMBOL	DESCRIPTION
	STANDARD PENDANT SPRINKLER HEAD - SEE SP DWGS
	CONCEALED PENDANT SPRINKLER HEAD - SEE SP DWGS
	HIGH TEMPERATURE SPRINKLER HEAD - SEE SP DWGS
	HORIZONTAL SIDEWALL SPRINKLER HEAD - SEE SP DWGS
SC	SECURITY CAMERA - SEE SEC DWGS
	EXIT SIGN - # OF FACES FILLED-IN - SEE ELEC DWGS
	SMOKE/CARBON MONOXIDE DETECTOR - SEE ELEC DWGS
S	SMOKE DETECTOR - SEE FA DWGS
	VACANCY SENSORS - SEE ELEC DWGS
	LINEAR SUPPLY DIFFUSER - SEE MECH DWGS
	SUPPLY DIFFUSER - SEE MECH DWGS
	RETURN DIFFUSER - SEE MECH DWGS
	VRF - DAIKON 4-WAY CASSETTE - SEE MECH DWGS
	EXHAUST VENT - SEE MECH DWGS
	SIDE WALL EXHAUST VENT - SEE MECH DWGS
A	GWB CLG - SEE FINISH SCHEDULE
B	GWB CLG - DIRECT FURRED
	ACT CLG - *U.O.N.* - SEE FINISH SCHEDULE
	TL-6 - SEE FINISH SCHEDULE
	ACCESS PANEL - 18"X24" *U.O.N.*
	GWB SUSPENDED CEILING & SOFFIT
	7'-0" AFF UNLESS NOTED OTHERWISE
	7'-6" AFF
	8'-0" AFF
	8'-6" AFF
	9'-0" AFF

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	Issued for 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

REFLECTED CEILING PLAN - 2ND-3RD FLOOR

REGISTERED ARCHITECT JONATHAN JOHN MARVEL No. 021460 STATE OF NEW YORK

DRAWING #: A-202.00

51 of 92

DOB STAMP ZONE

DOB ##### ZONE

1/29/2016 4:29:59 PM

1 REFLETED CEILING PLAN - 4TH-6TH FLOOR
1/4" = 1'-0"

LIGHTING FIXTURE LEGEND

NO.	TYPE	DESCRIPTION
1	FA	UTILITY GRADE 48" PENDANT, SUSPENDED
2	FB	48" LINEAR, VERTICAL WALL MTD
3	FC	24" LINEAR SCONCE, HORIZ WALL MTD
4	FD	13" DIA. DOWNLIGHT, SURFACE MTD
5	FE	36" LINEAR LIGHT, CEILING MTD
6	FF	9"X9"DIA. DOWNLIGHT, SURFACE MTD
7	FG	6"X6" DOWNLIGHT, RECESSED
8	FH	48" LINEAR, RECESSED
9	FJ	WALL MOUNTED, ELEVATOR PIT
10	FK	EXT GRADE SCONCE, HIGH WALL MTD
11	FL	EXT GRADE RECESSED DOWN LIGHT
12	FM	24" LINEAR, CEILING MTD
13	FN	INT 2'X2' ACT RECESSED, CEILING MTD
14	FP	SURFACE MTD
15	FQ	EMERGENCY LIGHTS
16	FR	24" LINEAR, RECESSED

NOTE:

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2. DEDUCT/ALT: CLEAR COAT FINISH AT CEILINGS FOR ALL DWELLING UNIT LIVING AND BEDROOMS
3. ALL CEILING COMPONENTS TO BE INSTALLED ON CENTER U.O.N.
4. ALL CEILING ELEVATIONS MEASURED FROM FINISHED FLOOR
5. SOFFIT ABOVE UPPER CABINETS OVER COUNTERS AT ALL KITCHEN TYPES TO BE 14" - TYP
6. ALL EXPOSED PLANK CEILINGS IN APARTMENTS AND COMMON AREAS SHOULD RECEIVED KKEPC SMOOTH FINISH AND FLAT FINISH PAINT

CEILING LEGEND

SYMBOL	DESCRIPTION
	STANDARD PENDANT SPRINKLER HEAD - SEE SP DWGS
	CONCEALED PENDANT SPRINKLER HEAD - SEE SP DWGS
	HIGH TEMPERATURE SPRINKLER HEAD - SEE SP DWGS
	HORIZONTAL SIDEWALL SPRINKLER HEAD - SEE SP DWGS
CC	SECURITY CAMERA - SEE SEC DWGS
EXIT	EXIT SIGN - # OF FACES FILLED-IN - SEE ELEC DWGS
SC	SMOKE/CARBON MONOXIDE DETECTOR - SEE ELEC DWGS
S	SMOKE DETECTOR - SEE FA DWGS
	VACANCY SENSORS - SEE ELEC DWGS
	LINEAR SUPPLY DIFFUSER - SEE MECH DWGS
	SUPPLY DIFFUSER - SEE MECH DWGS
	RETURN DIFFUSER - SEE MECH DWGS
	VRF - DAIKON 4-WAY CASSETTE - SEE MECH DWGS
	EXHAUST VENT - SEE MECH DWGS
	SIDE WALL EXHAUST VENT - SEE MECH DWGS
A	GWB CLG - SEE FINISH SCHEDULE
B	GWB CLG - DIRECT FURRED
	ACT CLG - *U.O.N.* - SEE FINISH SCHEDULE
	TL-6 - SEE FINISH SCHEDULE
ACP	ACCESS PANEL - 18"X24" *U.O.N.*
	GWB SUSPENDED CEILING & SOFFIT
	7'-0" AFF UNLESS NOTED OTHERWISE
	7'-6" AFF
	8'-0" AFF
	8'-6" AFF
	9'-0" AFF

DOB STAMP ZONE

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
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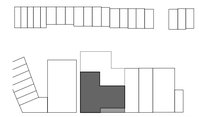
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

REFLECTED CEILING PLAN - 4TH-6TH FLOOR PLAN

REGISTERED ARCHITECT
JONATHAN JOVE MARVEL
No. 021261
STATE OF NEW YORK

DRAWING #: A-203 00

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DOB ##### ZONE

1/29/2016 4:26:08 PM

1 REFLETED CEILING PLAN - 7TH-9TH FLOOR
1/4" = 1'-0"

2 REFLECTED CEILING PLAN - ROOF
1/4" = 1'-0"

LIGHTING FIXTURE LEGEND		
NO.	TYPE	DESCRIPTION
1	FA	UTILITY GRADE 48" PENDANT, SUSPENDED
2	FB	48" LINEAR, VERTICAL WALL MTD
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4	FD	13" DIA. DOWNLIGHT, SURFACE MTD
5	FE	36" LINEAR LIGHT, CEILING MTD
6	FF	9"X9"DIA. DOWNLIGHT, SURFACE MTD
7	FG	6"X6" DOWNLIGHT, RECESSED
8	FH	48" LINEAR, RECESSED
9	FJ	WALL MOUNTED, ELEVATOR PIT
10	FK	EXT GRADE SCONCE, HIGH WALL MTD
11	FL	EXT GRADE RECESSED DOWN LIGHT
12	FM	24" LINEAR, CEILING MTD
13	FN	INT 2'X2' ACT RECESSED, CEILING MTD
14	FP	SURFACE MTD
15	FQ	EMERGENCY LIGHTS
16	FR	24" LINEAR, RECESSED

NOTE:

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CEILING LEGEND	
SYMBOL	DESCRIPTION
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	CONCEALED PENDANT SPRINKLER HEAD - SEE SP DWGS
	HIGH TEMPERATURE SPRINKLER HEAD - SEE SP DWGS
	HORIZONTAL SIDEWALL SPRINKLER HEAD - SEE SP DWGS
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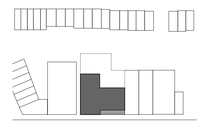
S	SMOKE DETECTOR - SEE FA DWGS
	VACANCY SENSORS - SEE ELEC DWGS
	LINEAR SUPPLY DIFFUSER - SEE MECH DWGS
	SUPPLY DIFFUSER - SEE MECH DWGS
	RETURN DIFFUSER - SEE MECH DWGS
	VRF - DAIKON 4-WAY CASSETTE - SEE MECH DWGS
	EXHAUST VENT - SEE MECH DWGS
	SIDE WALL EXHAUST VENT - SEE MECH DWGS
	GWB CLG - SEE FINISH SCHEDULE
B	GWB CLG - DIRECT FURRED
	ACT CLG - *U.O.N.* - SEE FINISH SCHEDULE
	TL-6 - SEE FINISH SCHEDULE
	ACCESS PANEL - 18"X24" *U.O.N.*
	GWB SUSPENDED CEILING & SOFFIT
	7'-0" AFF UNLESS NOTED OTHERWISE
	7'-6" AFF
	8'-0" AFF
	8'-6" AFF
	9'-0" AFF

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

REFLECTED CEILING PLAN - 7TH-9TH FLOOR PLAN

REGISTERED ARCHITECT JONATHAN JOSIA MARVEL No. 021480 STATE OF NEW YORK

DRAWING #: A-204.00

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DOB STAMP ZONE

DOB ##### ZONE

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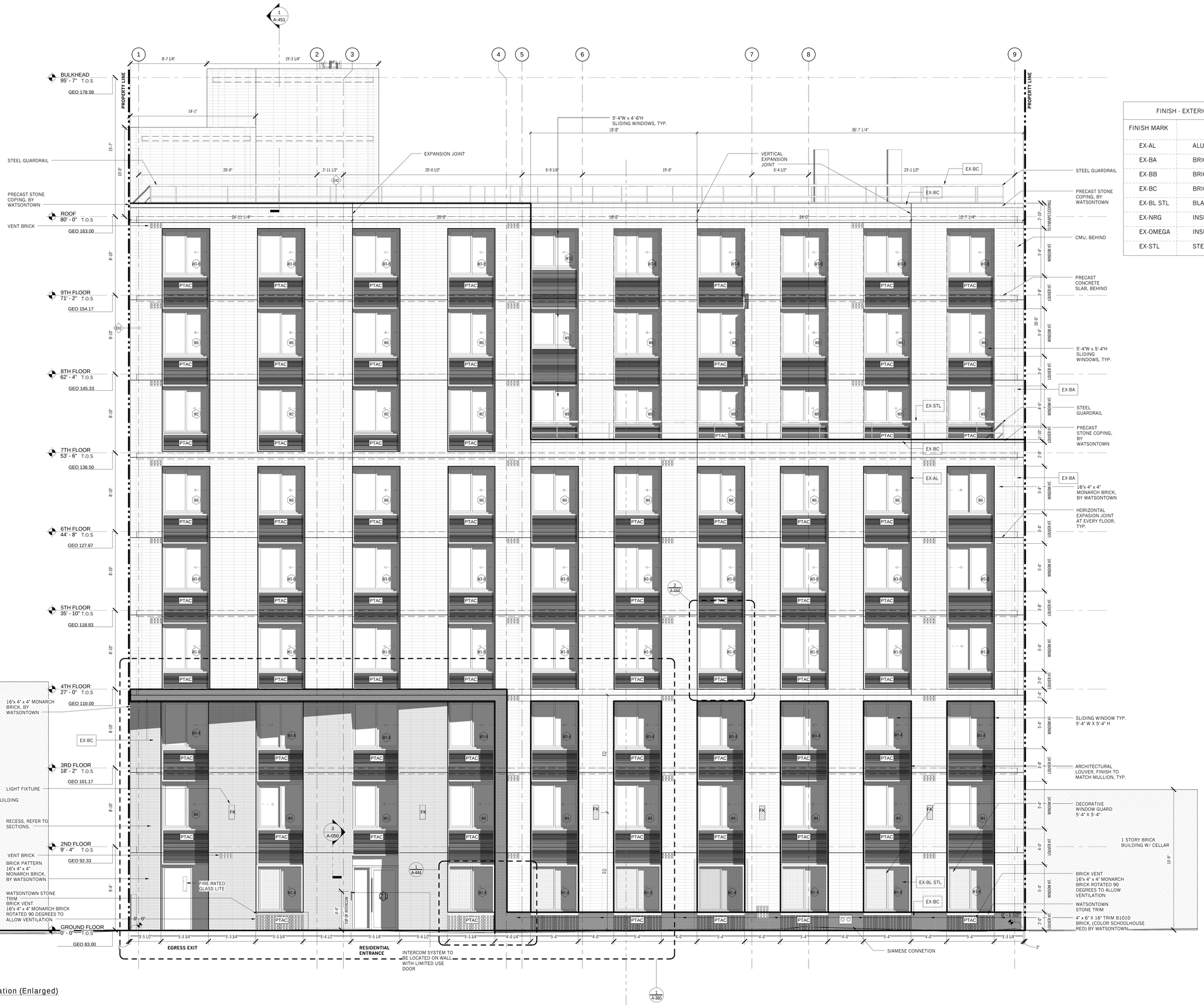


1 South Elevation (Enlarged)
1/4" = 1'-0"

FINISH - EXTERIOR WALL LEGEND	
FINISH MARK	FINISH MATERIAL
EX-AL	ALUMINUM
EX-BA	BRICK A
EX-BB	BRICK B
EX-BC	BRICK C
EX-BL STL	BLACKENED STEEL
EX-NRG	INSULATED CMU
EX-OMEGA	INSULATED ALUMINUM PANEL
EX-STL	STEEL

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

SOUTH ELEVATION

REGISTERED ARCHITECT JONATHAN JOWA MARVEL No. 021480 STATE OF NEW YORK

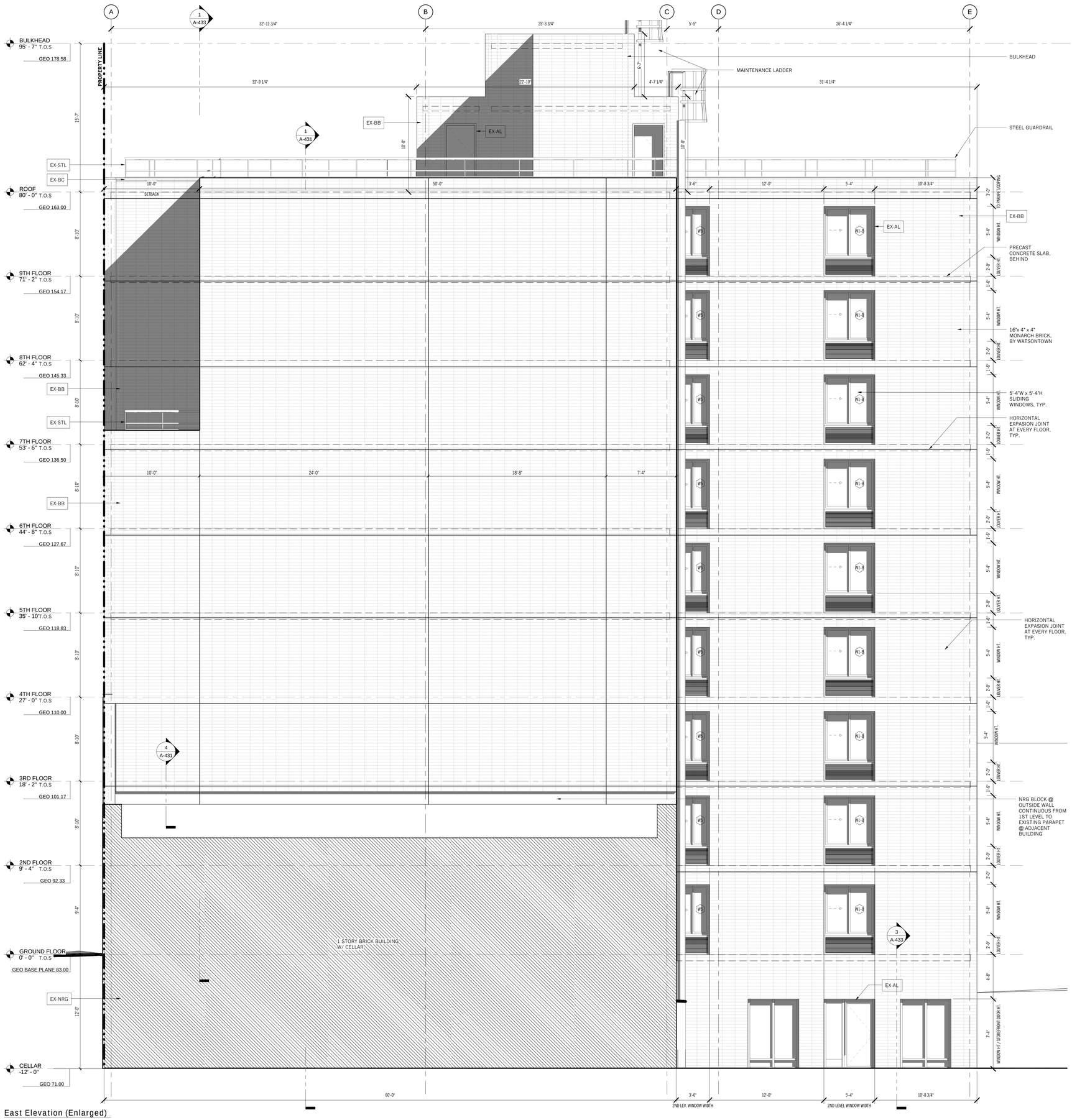
DRAWING #: A-300.00

54 of 92

DOB STAMP ZONE

DOB ##### ZONE

1/29/2016 4:27:00 PM



1 East Elevation (Enlarged)
1/4" = 1'-0"

FINISH · EXTERIOR WALL LEGEND	
FINISH MARK	FINISH MATERIAL
EX-AL	ALUMINUM
EX-BA	BRICK A
EX-BB	BRICK B
EX-BC	BRICK C
EX-BL STL	BLACKENED STEEL
EX-NRG	INSULATED CMU
EX-OMEGA	INSULATED ALUMINUM PANEL
EX-STL	STEEL

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	Date 04.05.2015	Revised ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

EAST ELEVATION

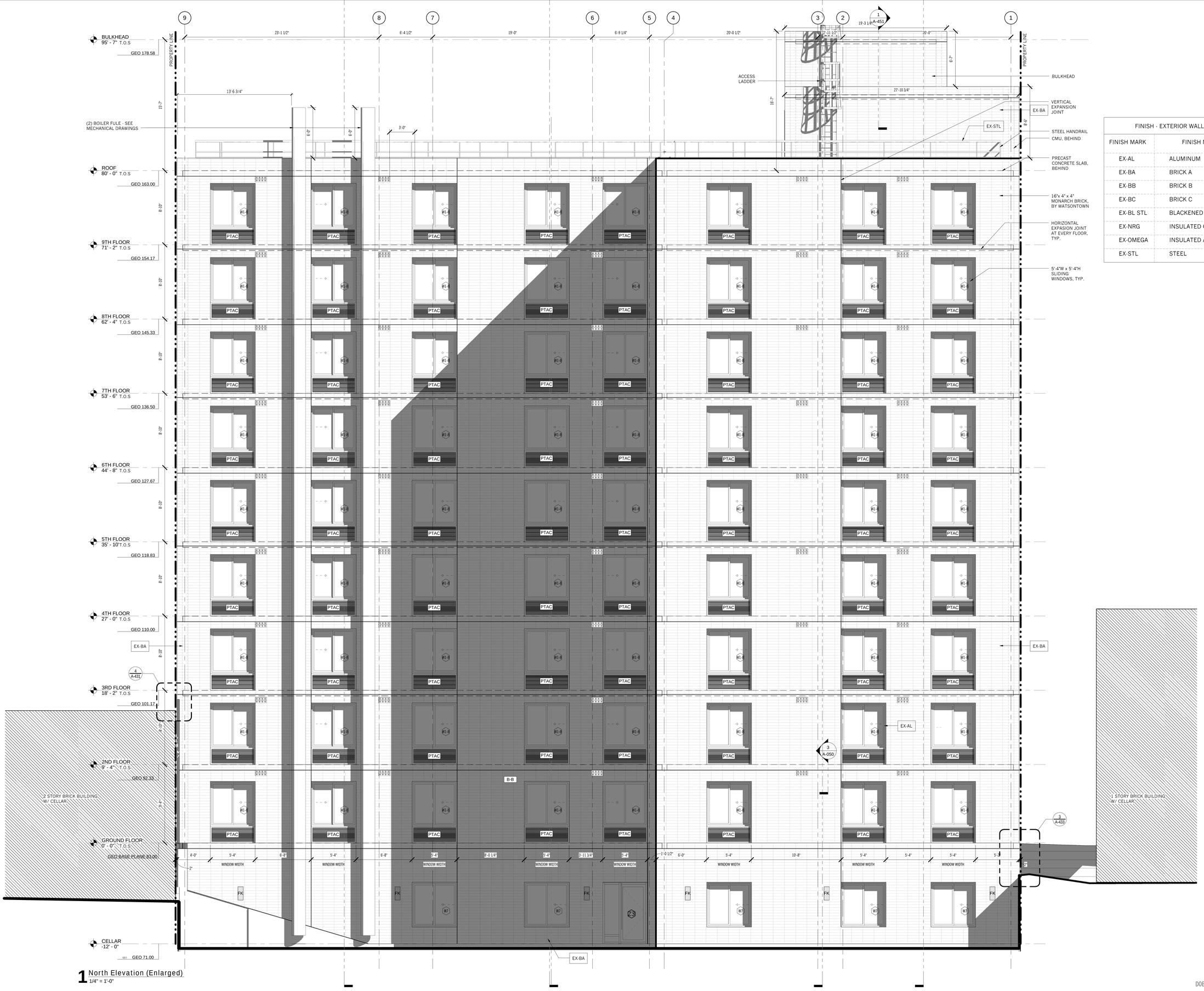
DRAWING #: A-301 00

55 of 92

DOB ##### ZONE

DOB STAMP ZONE

1/29/2016 4:27:36 PM



1 North Elevation (Enlarged)
1/4" = 1'-0"

FINISH · EXTERIOR WALL LEGEND	
FINISH MARK	FINISH MATERIAL
EX-AL	ALUMINUM
EX-BA	BRICK A
EX-BB	BRICK B
EX-BC	BRICK C
EX-BL STL	BLACKENED STEEL
EX-NRG	INSULATED CMU
EX-OMEGA	INSULATED ALUMINUM PANEL
EX-STL	STEEL

Marvel Architects
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CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
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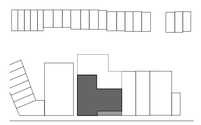
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

NORTH ELEVATION

REGISTERED ARCHITECT
JONATHAN JOVA MARVEL
No. 021480
STATE OF NEW YORK

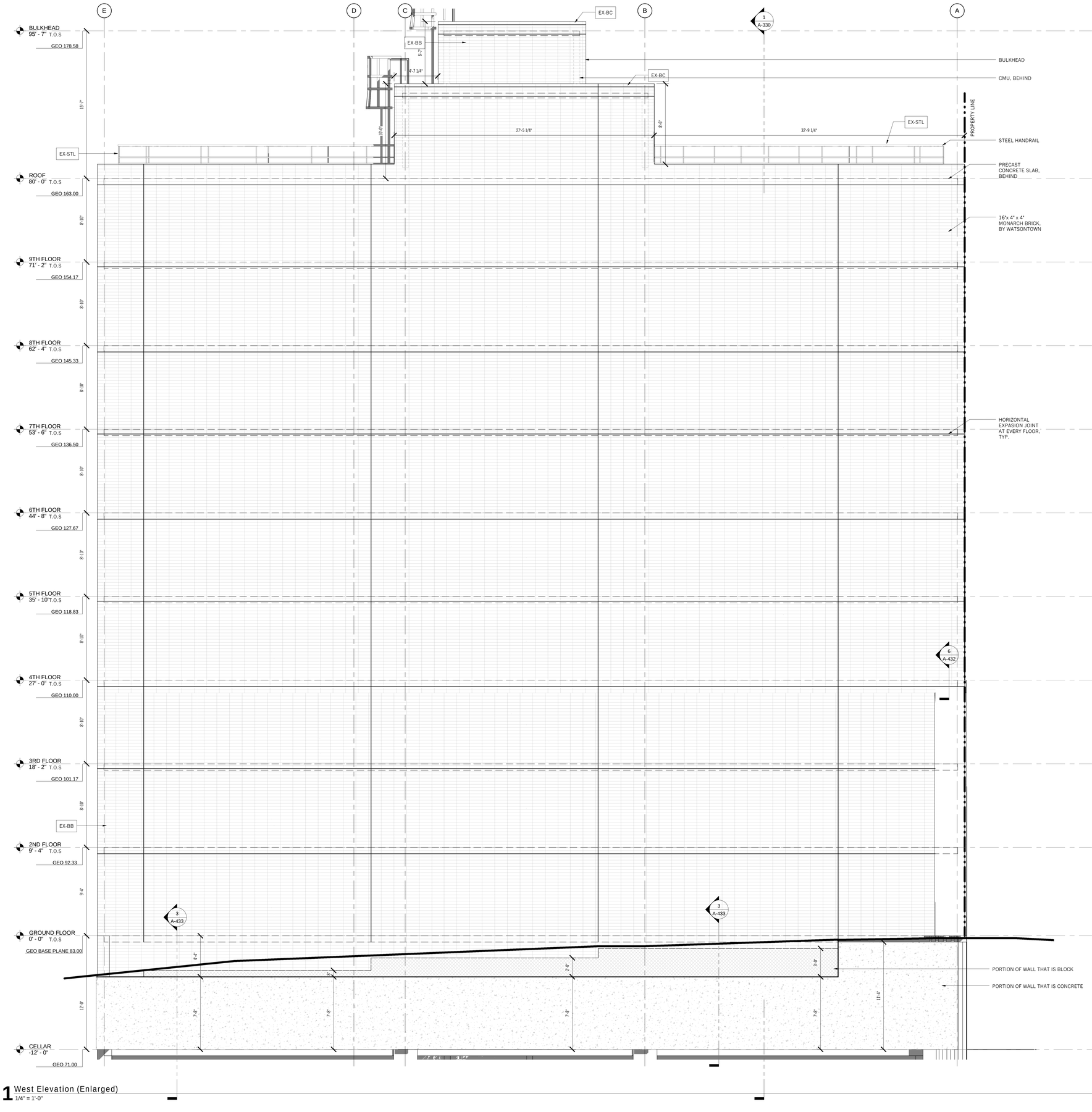
DRAWING #: A-302.00

56 of 92

DOB ##### ZONE

DOB STAMP ZONE

1/29/2016 4:28:23 PM



1 West Elevation (Enlarged)
1/4" = 1'-0"

DOB STAMP ZONE

FINISH - EXTERIOR WALL LEGEND	
FINISH MARK	FINISH MATERIAL
EX-AL	ALUMINUM
EX-BA	BRICK A
EX-BB	BRICK B
EX-BC	BRICK C
EX-BL STL	BLACKENED STEEL
EX-NRG	INSULATED CMU
EX-OMEGA	INSULATED ALUMINUM PANEL
EX-STL	STEEL

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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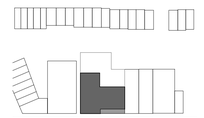
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

WEST ELEVATION

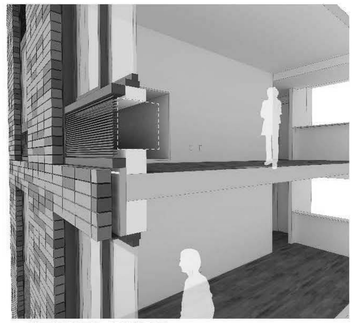
REGISTERED ARCHITECT
JONATHAN JOVA MARVEL
No. 021480
STATE OF NEW YORK

DRAWING #: A-303.00

57 of 92

DOB ##### ZONE

1/29/2016 4:29:00 PM

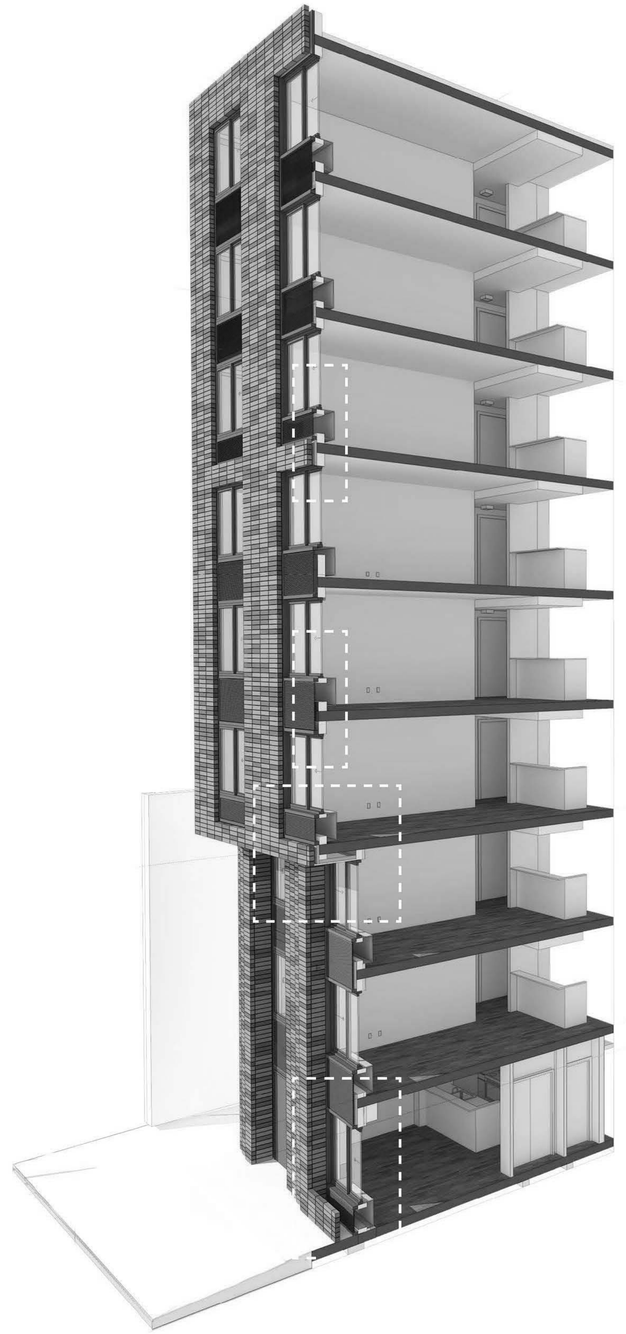


Atlantic Facade - PTAC @ Brick

Atlantic Facade - PTAC @ Louver

Atlantic Facade - PTAC @ Cantilever

Atlantic Facade - PTAC @ Recess



Marvel Architects

145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

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LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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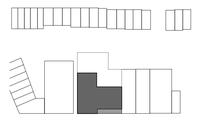
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

BRICK LAYOUT ELEVATIONS

DRAWING #: A-304 00

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DOB ##### ZONE

DOB STAMP ZONE

1/29/2016 4:29:02 PM

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

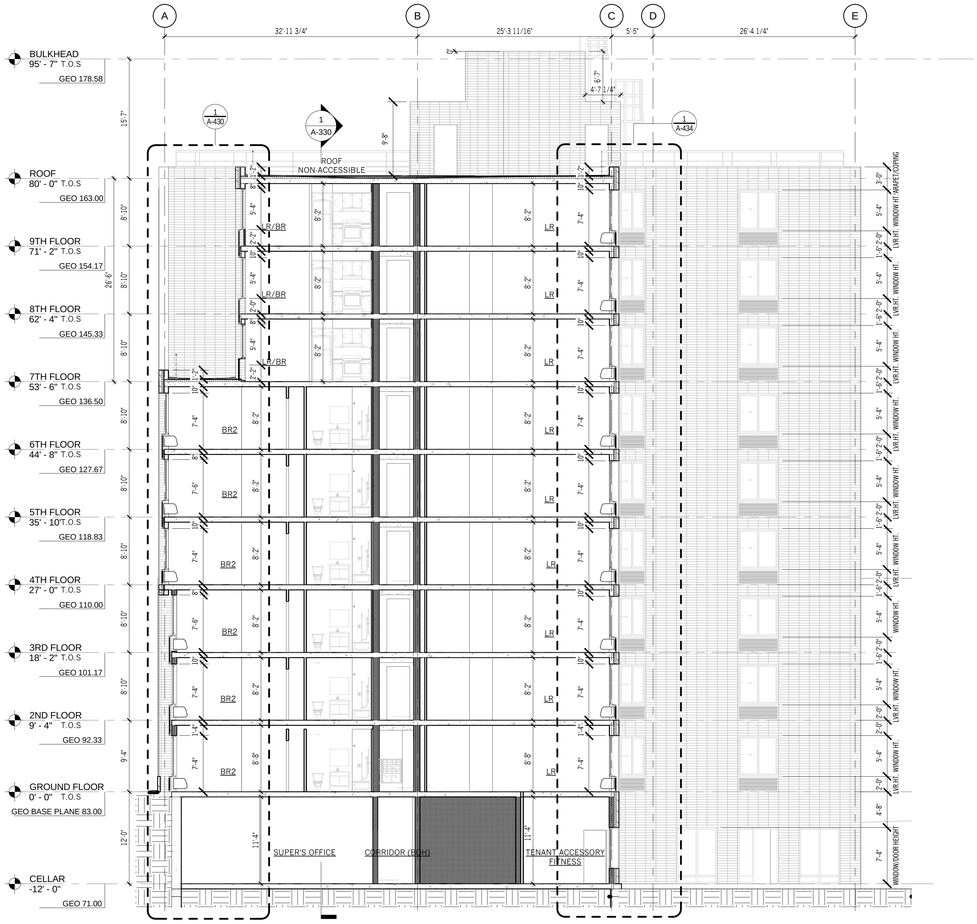
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

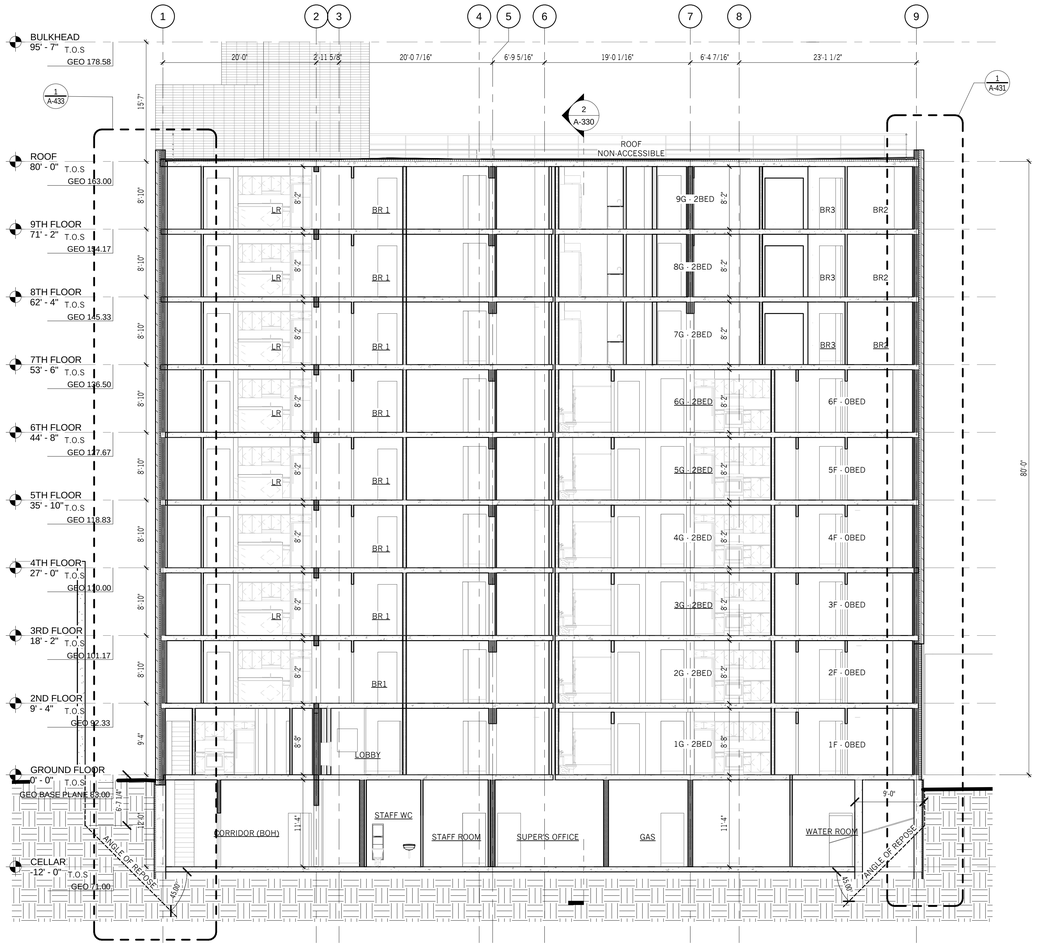
CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**



2 NORTH SOUTH SECTION A
1/8" = 1'-0"



1 EAST WEST SECTION
1/8" = 1'-0"

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

BUILDING SECTION

REGISTERED ARCHITECT
JONATHAN JOHN MARVEL
No. 021460
STATE OF NEW YORK

DRAWING #: A-330.00

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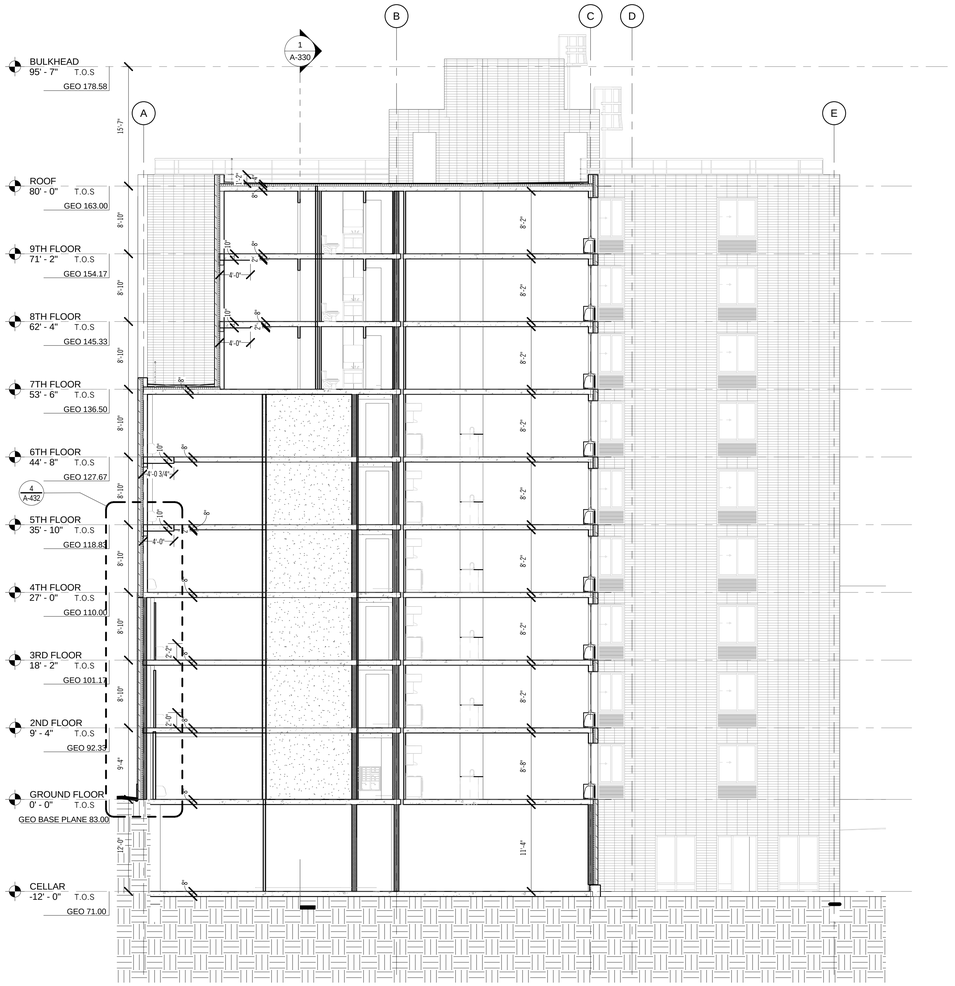
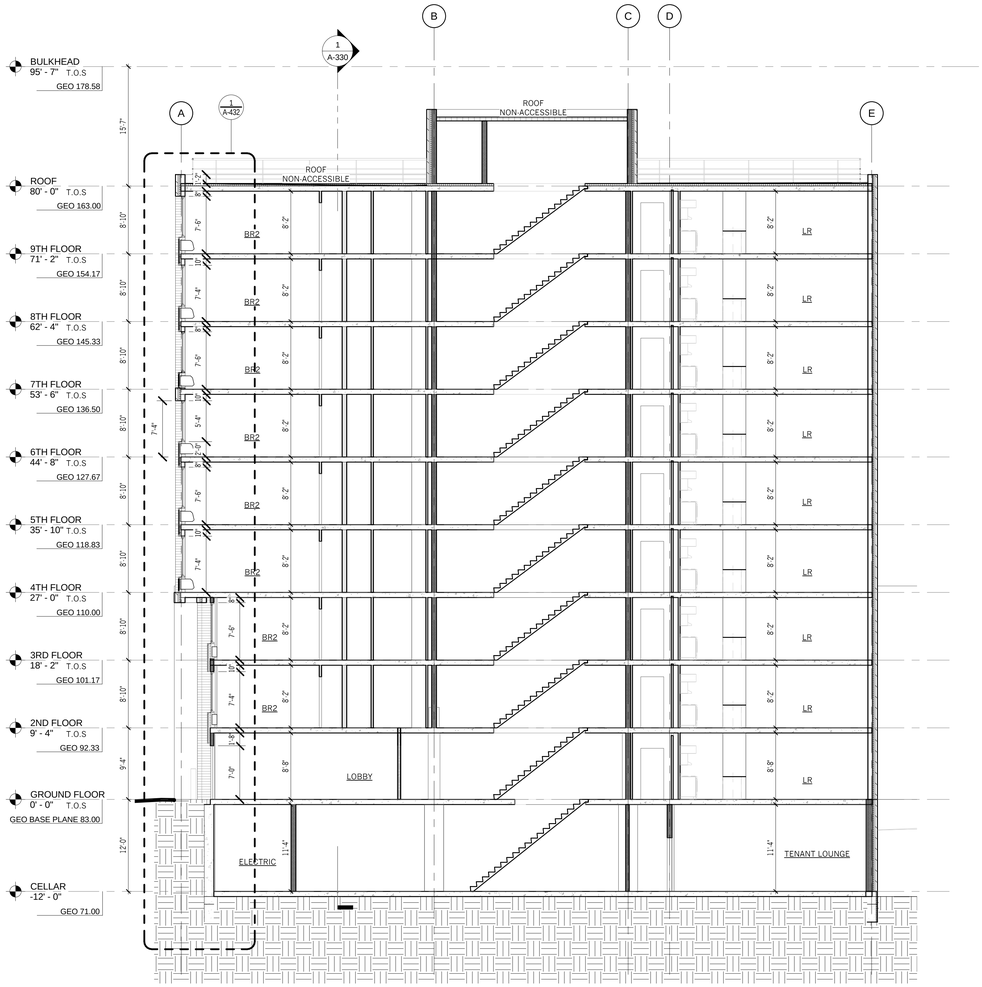
DOB ##### ZONE

DOB STAMP ZONE

1/29/2016 4:29:16 PM



2 NORTH SOUTH SECTION C
1/8" = 1'-0"



1 NORTH SOUTH SECTION B
1/8" = 1'-0"

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CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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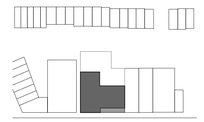
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

BUILDING SECTION

DRAWING #: A-331 00

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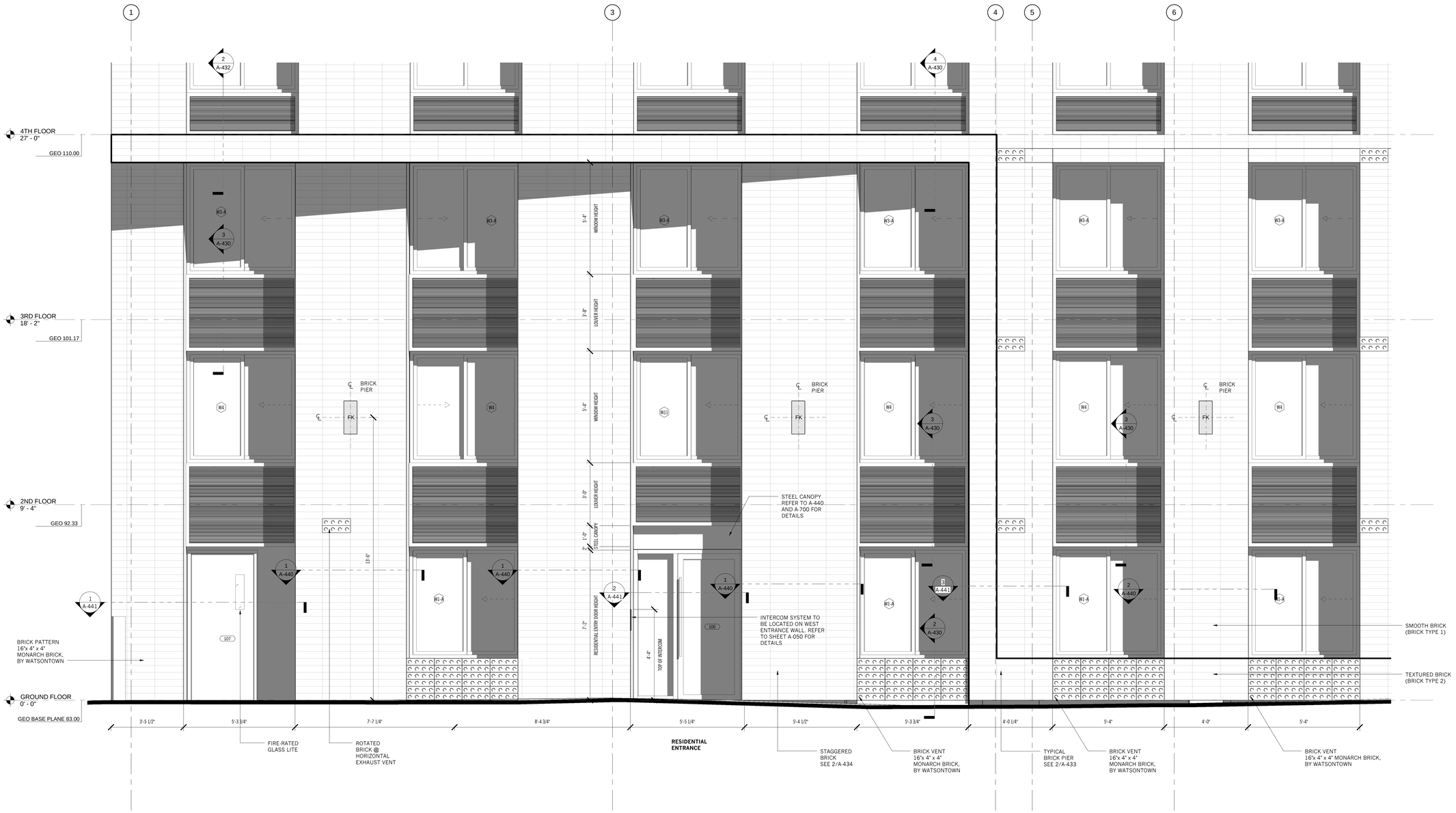
DOB ##### ZONE

DOB STAMP ZONE

1/29/2016 4:29:25 PM



1 ENLARGED ENTRANCE - SOUTHERN ELEVATION
1/2" = 1'-0"

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CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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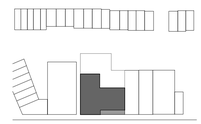
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
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ENLARGED ELEVATION - BUILDING ENTRY

DRAWING #: A-360 00

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DOB ##### ZONE

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CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

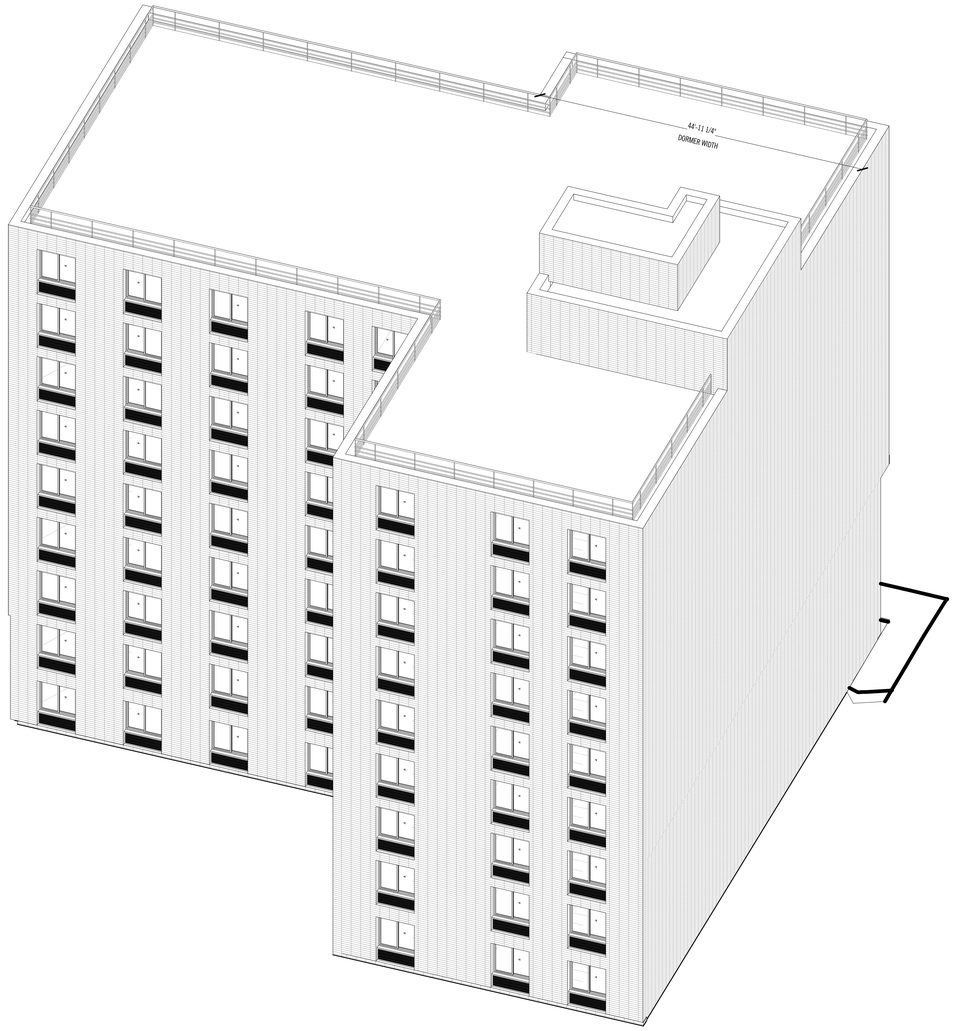
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

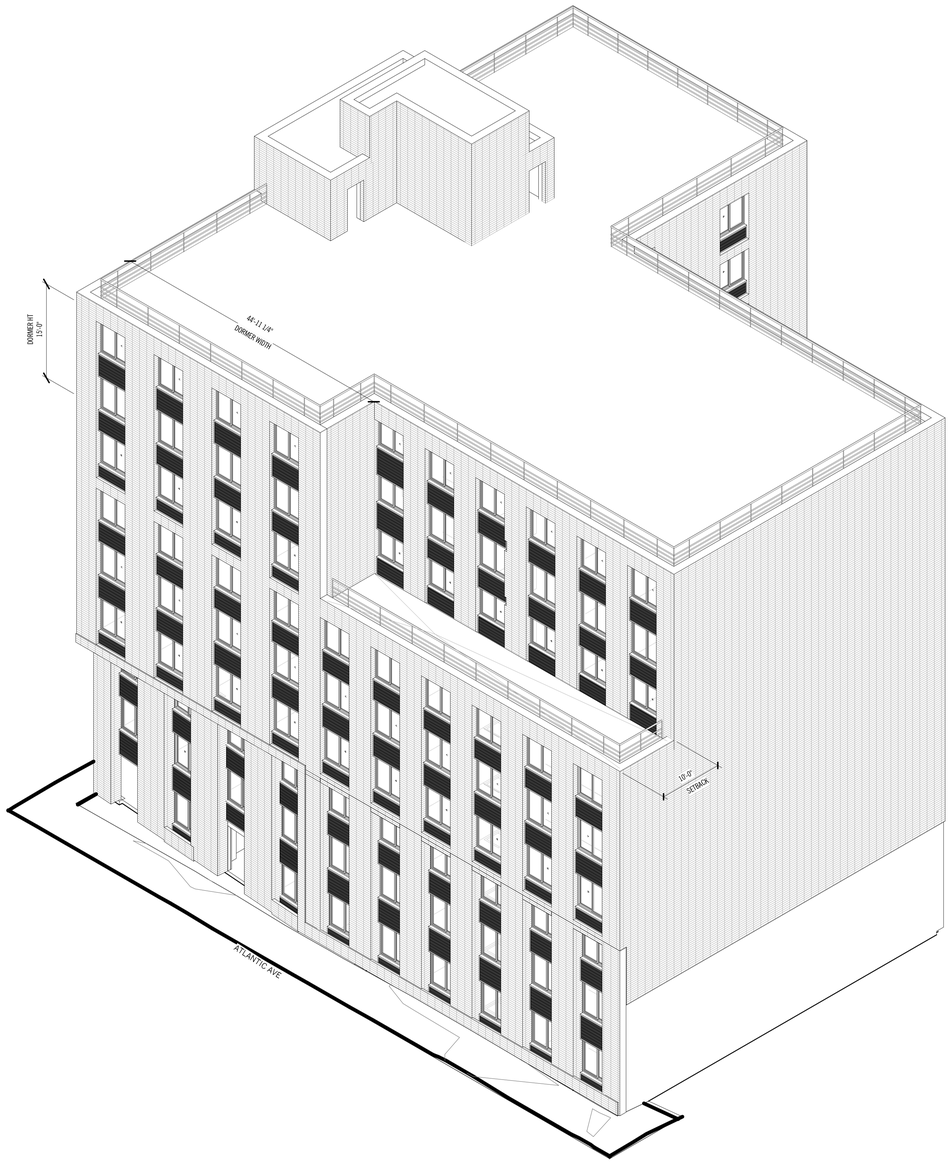
CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**



2 AXONOMETRIC - N.W. CORNER



1 AXONOMETRIC - S.E. CORNER

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1	06.05.2015	ISSUED FOR 100% SD
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6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

BUILDING AXONOMETRIC

DRAWING #: A-410 00

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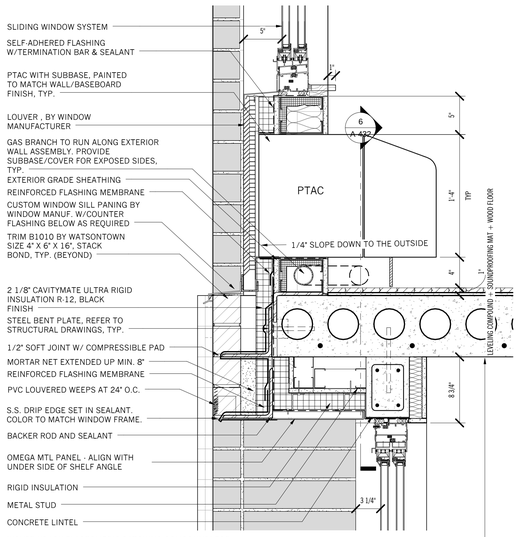
DOB STAMP ZONE

DOB ##### ZONE

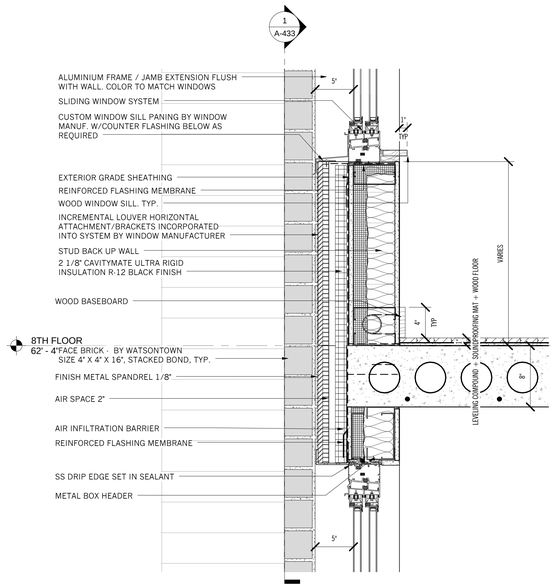
1/29/2016 4:30:54 PM

GENERAL NOTES:

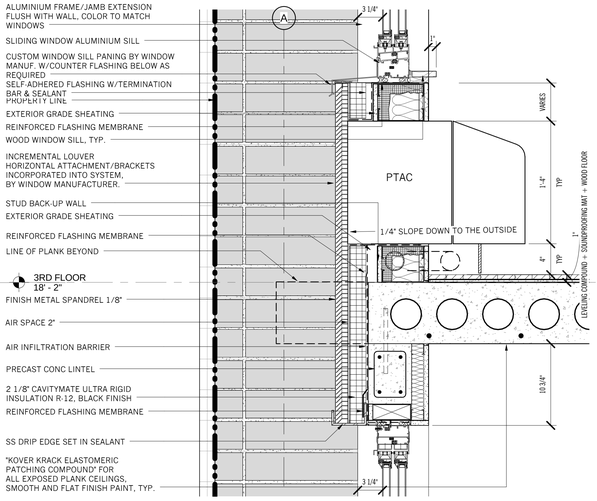
1. - INTERIOR AND CAVITY INSULATION MUST BE PROTECTED FROM AIR AND MOISTURE INTRUSION, AND FREE OF VOIDS, GAPS AND COMPRESSION.
2. - CAVITY INSULATION MUST BE IN CONTACT WITH THE INTERIOR WALL SURFACE (I.E. DRYWALL) AND COMPLETELY FILL THE INTERIOR WALL CAVITY.
3. - SPRINKLER SYSTEMS TO BE DESIGNED TO NOT INTERFERE WITH THE PERFORMANCE OF THERMAL AND AIR BARRIERS.
4. - ALL FASTENERS FOR UHPC. CONC. PANELS SHALL BE COLOR-MATCHED. PROVIDE SAMPLE FOR ARCHITECTS APPROVAL
5. - SOLID FILLED PLANK EDGE MIN. 30" FROM END OF PLANK, TYPICAL AT ALL PLANK @ ROOF/TERRACE EDGES



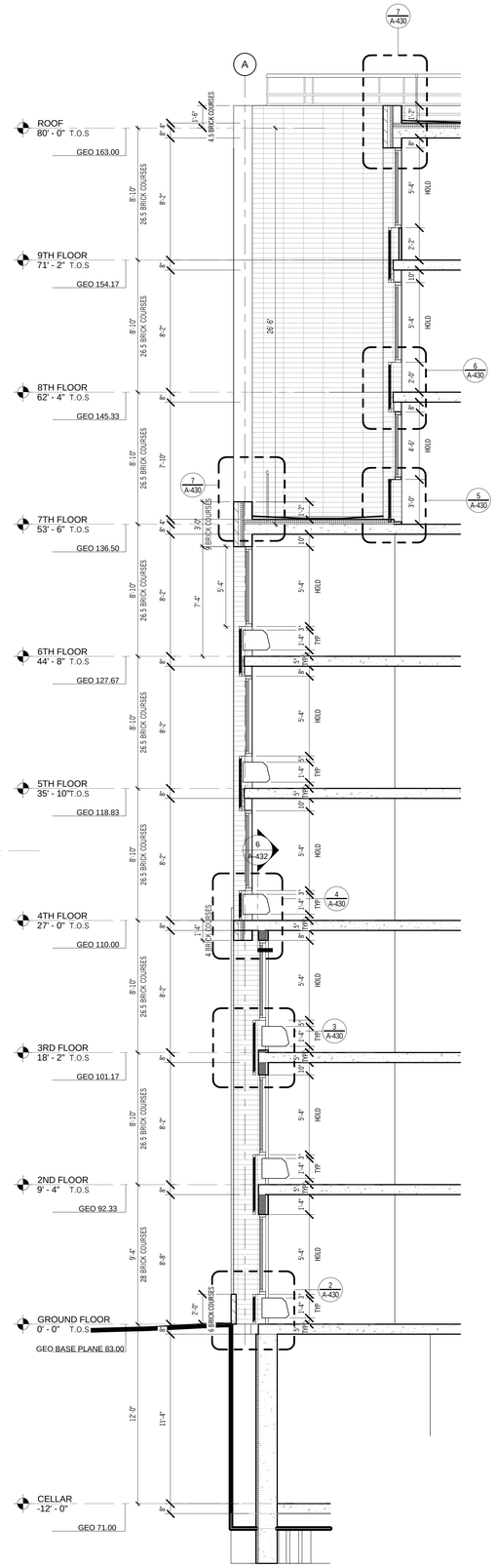
4 EXTERIOR WALL - DETAIL @ WALL RECESS
1 1/2" = 1'-0"



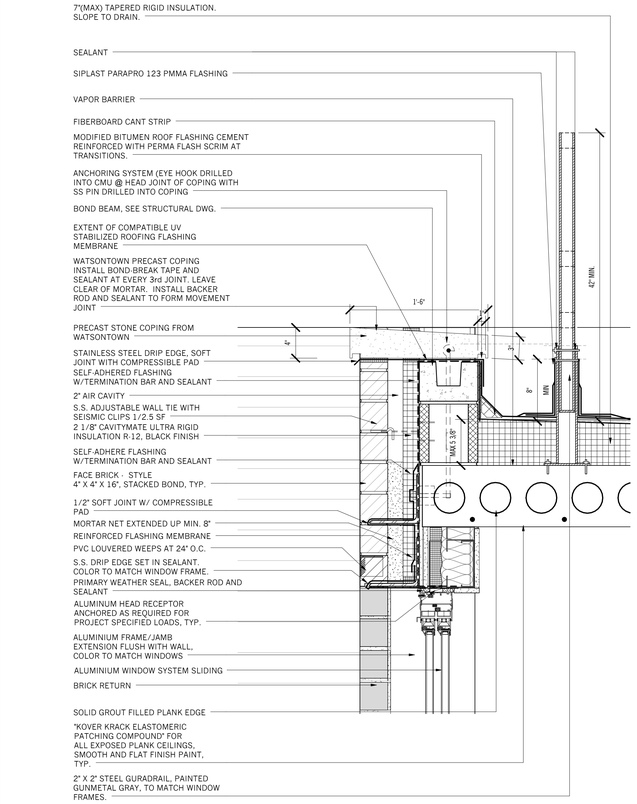
6 EXTERIOR WALL - PTAC DETAIL W/ LOUVER
1 1/2" = 1'-0"



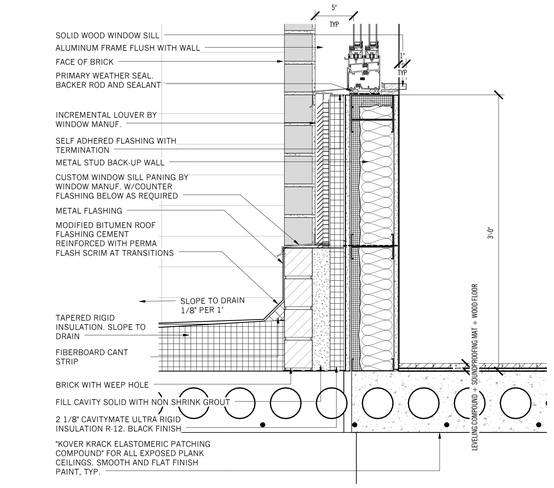
3 EXTERIOR WALL - PTAC DETAIL W/ LOUVER
1 1/2" = 1'-0"



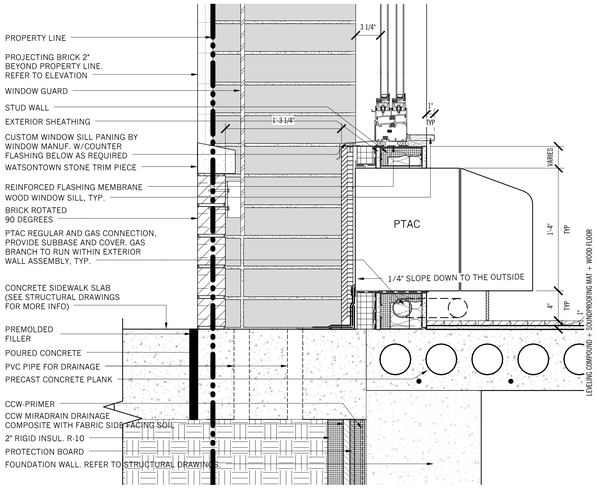
1 SOUTH WALL SECTION @ 1/4" SCALE
1/4" = 1'-0"



7 EXTERIOR WALL - PARAPET DETAIL (STUD/CMU)
1 1/2" = 1'-0"



5 EXTERIOR WALL - WINDOW DETAIL @ ROOF
1 1/2" = 1'-0"



2 EXTERIOR WALL - WINDOW DETAIL @ GROUND FLOOR WDW GUARD
1 1/2" = 1'-0"

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CLIENT HUDSON COMPANIES INCORPORATED

OWNER ATHENA HOUSING ASSOCIATES LLC.

STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.

MEP ENGINEER EP ENGINEERING

CODE CONSULTING DESIGN 2147

ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES

LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
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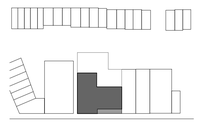
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

EXTERIOR WALL SECTIONS AND DETAILS

DRAWING #: A-430 00

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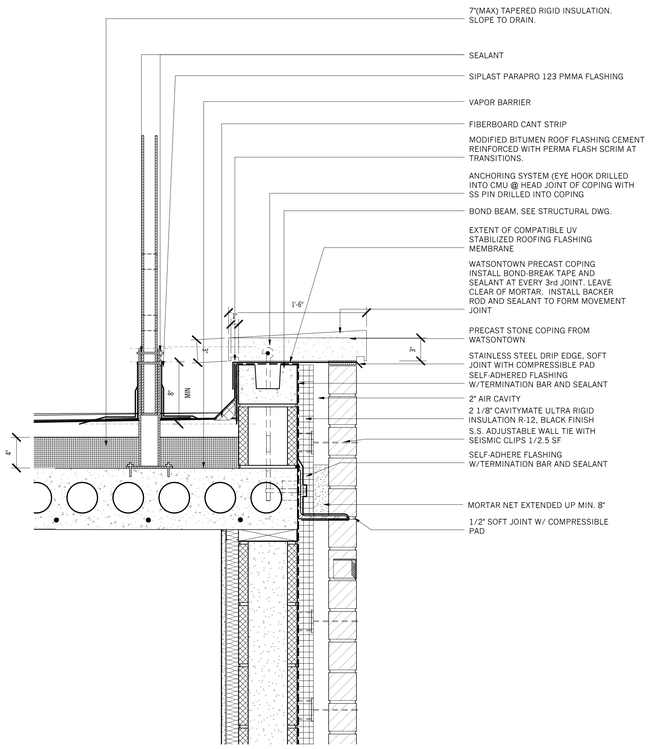
DOB ##### ZONE

DOB STAMP ZONE

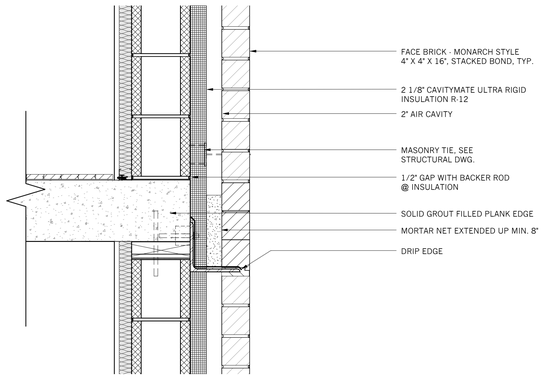
1/29/2016 4:31:06 PM

GENERAL NOTES:

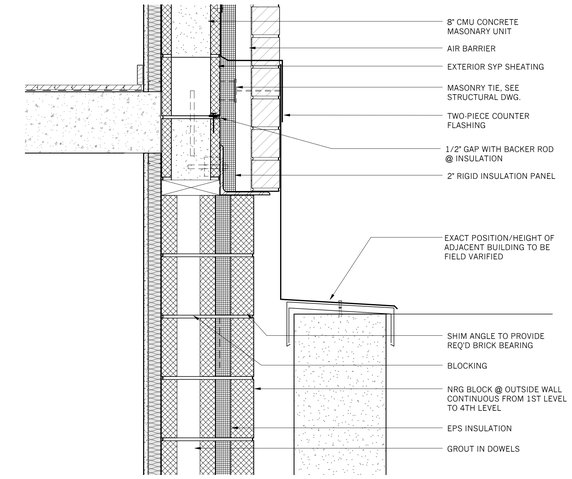
1. - INTERIOR AND CAVITY INSULATION MUST BE PROTECTED FROM AIR AND MOISTURE INTRUSION, AND FREE OF VOIDS, GAPS AND COMPRESSION.
2. - CAVITY INSULATION MUST BE IN CONTACT WITH THE INTERIOR WALL SURFACE (I.E. DRYWALL) AND COMPLETELY FILL THE INTERIOR WALL CAVITY.
3. - SPRINKLER SYSTEMS TO BE DESIGNED TO NOT INTERFERE WITH THE PERFORMANCE OF THERMAL AND AIR BARRIERS.
4. - ALL FASTENERS FOR UHPC. CONC. PANELS SHALL BE COLOR-MATCHED. PROVIDE SAMPLE FOR ARCHITECTS APPROVAL
5. - SOLID FILLED PLANK EDGE MIN. 30" FROM END OF PLANK, TYPICAL AT ALL PLANK @ ROOF/TERRACE EDGES



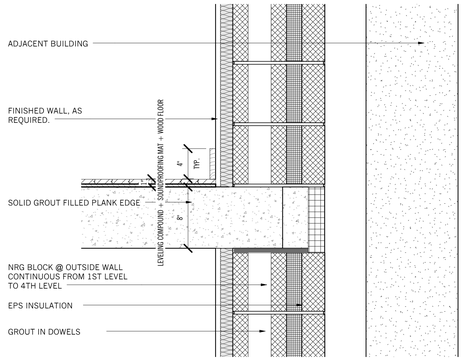
6 EXTERIOR WALL - PARAPET DETAIL (BRCK/CMU)
1 1/2" = 1'-0"



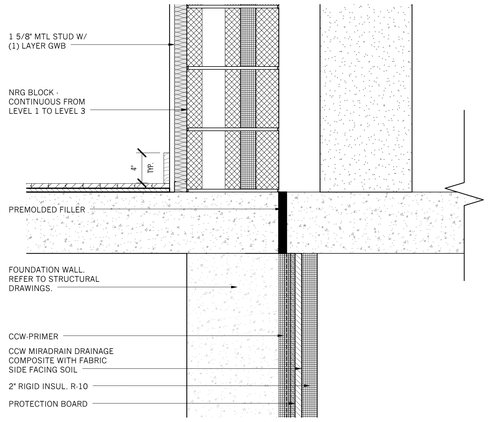
5 EXTERIOR WALL - DETAIL @ SHELF ANGLE
1 1/2" = 1'-0"



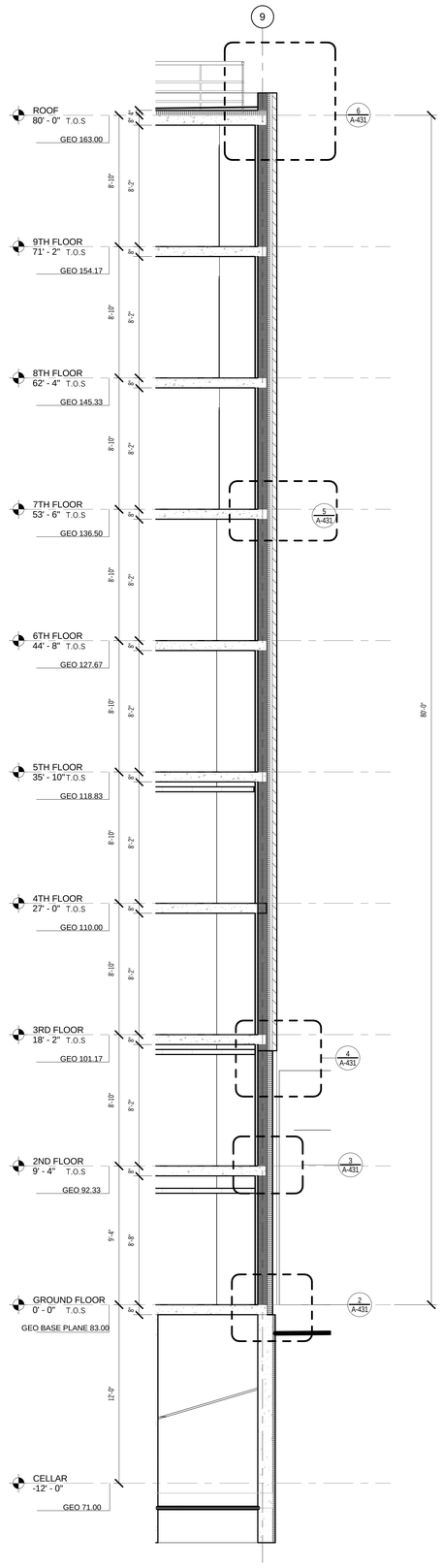
4 EXTERIOR WALL DETAIL - NRG BLOCK @ ADJACENT BUILDING
1 1/2" = 1'-0"



3 EXTERIOR WALL DETAIL - NRG BLOCK @ PLANK
1 1/2" = 1'-0"



2 EXTERIOR WALL - DETAIL - NRG BLOCK @ GROUND FLOOR
1 1/2" = 1'-0"



1 EAST WEST SECTION @ 1/4" SCALE
1/4" = 1'-0"

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145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED

OWNER ATHENA HOUSING ASSOCIATES LLC.

STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.

MEP ENGINEER EP ENGINEERING

CODE CONSULTING DESIGN 2147

ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES

LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
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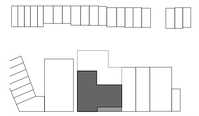
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

EXTERIOR WALL SECTIONS AND DETAILS

REGISTERED ARCHITECT JONATHAN JOSHUA MARVEL No. 024690 STATE OF NEW YORK

DRAWING #: A-431 00

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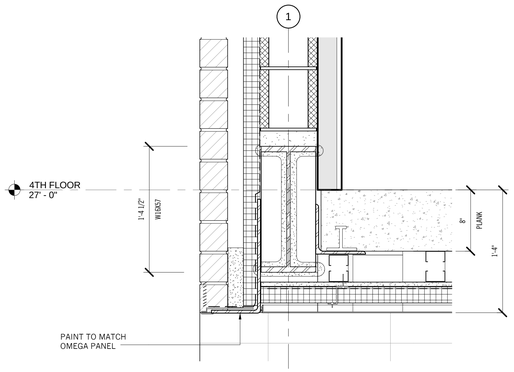
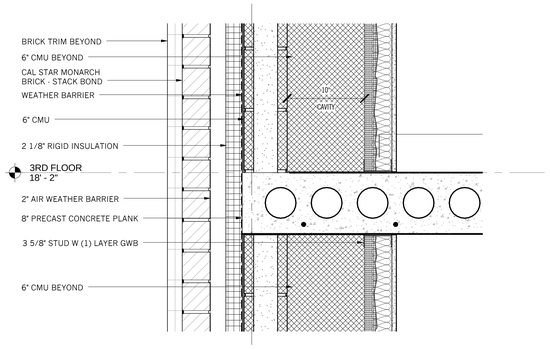
DOB ##### ZONE

DOB STAMP ZONE

1/29/2016 4:31:13 PM



6 EXTERIOR WALL - CANTILEVER DETAIL
1 1/2" = 1'-0"



5 EXTERIOR WALL - BRICK PIER DETAIL @ PLANK
1 1/2" = 1'-0"

GENERAL NOTES:

1. - INTERIOR AND CAVITY INSULATION MUST BE PROTECTED FROM AIR AND MOISTURE INTRUSION, AND FREE OF VOIDS, GAPS AND COMPRESSION.
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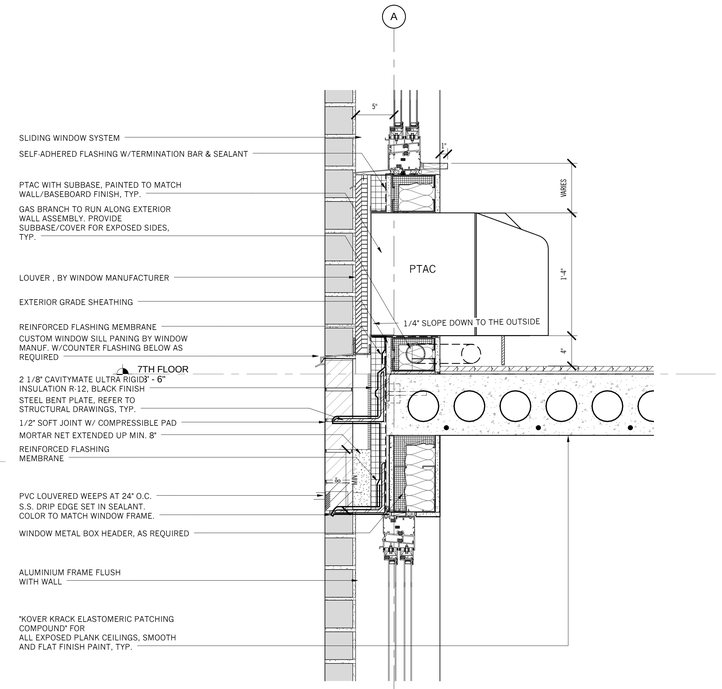
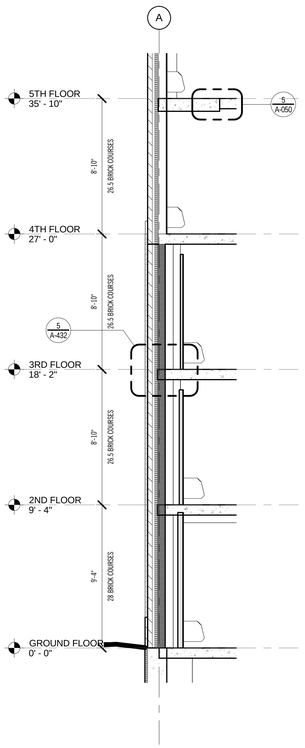
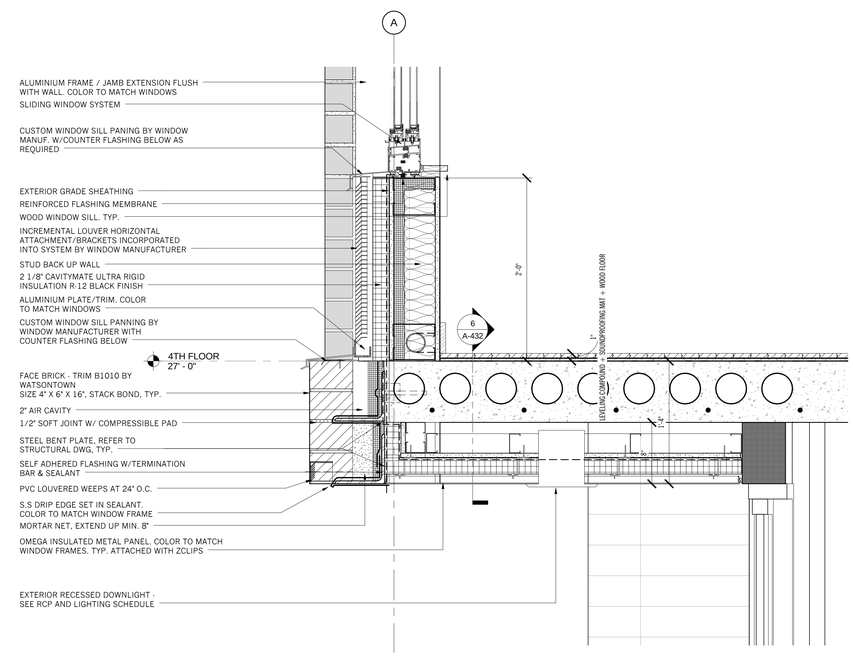


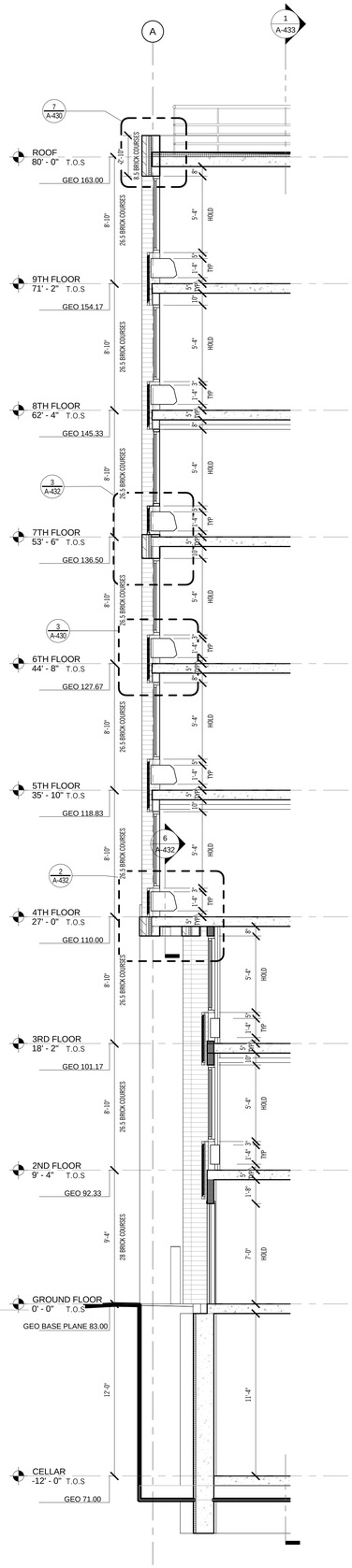
3 EXTERIOR WALL DETAIL @ BRICK
1 1/2" = 1'-0"



4 SECTION THROUGH BRICK PIER
1/4" = 1'-0"



2 EXTERIOR WALL - CANTELIVER DETAIL @ ENTRANCE
1 1/2" = 1'-0"



1 WALL SECTION - NORTH SOUTH SECTION B
1/4" = 1'-0"

DOB STAMP ZONE

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145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED

OWNER ATHENA HOUSING ASSOCIATES LLC.

STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.

MEP ENGINEER EP ENGINEERING

CODE CONSULTING DESIGN 2147

ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES

LANDSCAPE ABEL BAINNSON BUTZ, LLP

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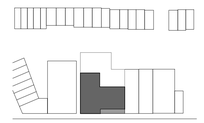
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

EXTERIOR WALL SECTIONS AND DETAILS

DRAWING #: A-432 00

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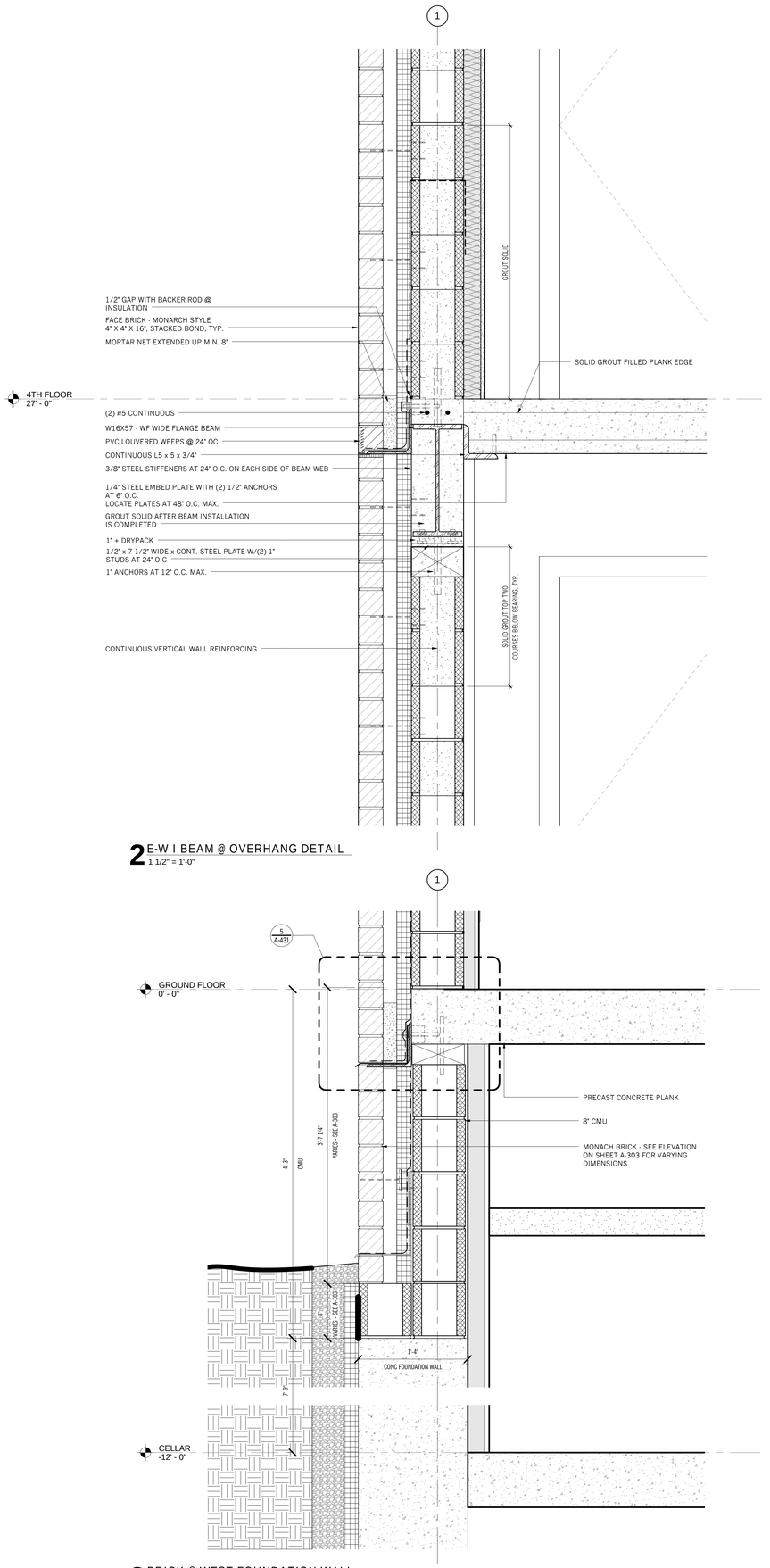
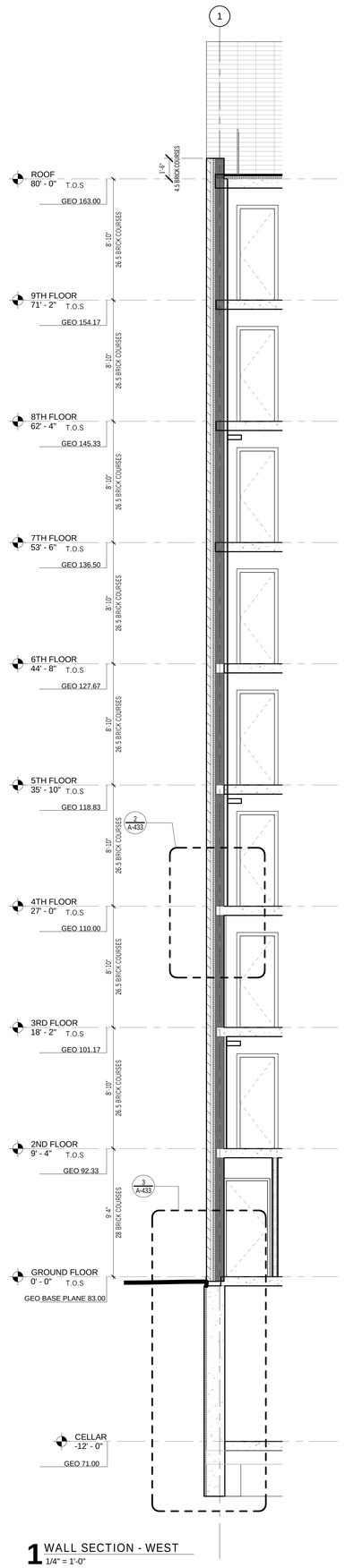
DOB ##### ZONE

1/29/2016 4:31:21 PM



2 E-W I BEAM @ OVERHANG DETAIL
1 1/2" = 1'-0"

3 BRICK @ WEST FOUNDATION WALL
1 1/2" = 1'-0"



1 WALL SECTION - WEST
1/4" = 1'-0"

DOB STAMP ZONE

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CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
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5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

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BROOKLYN, NY 11238

EXTERIOR WALL SECTIONS AND DETAILS

DRAWING #: A-433 00

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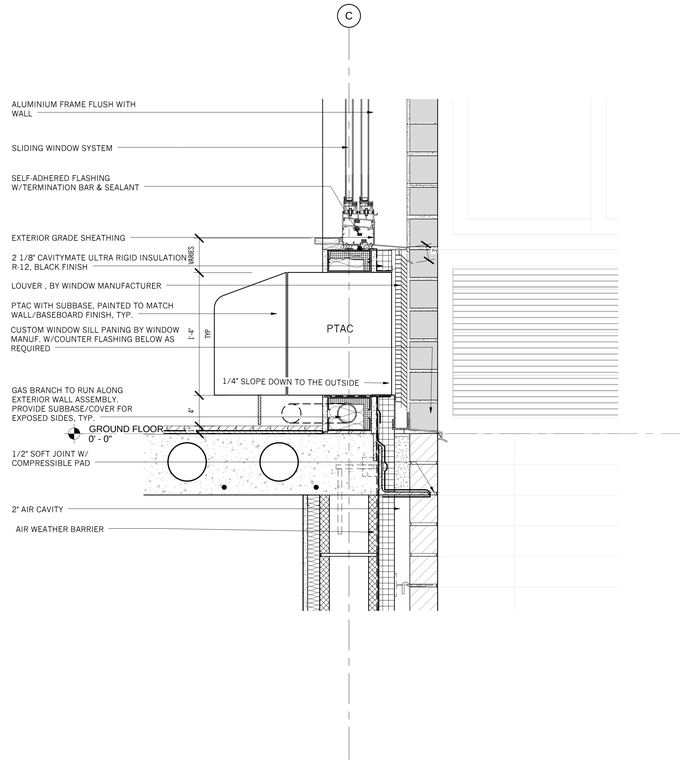
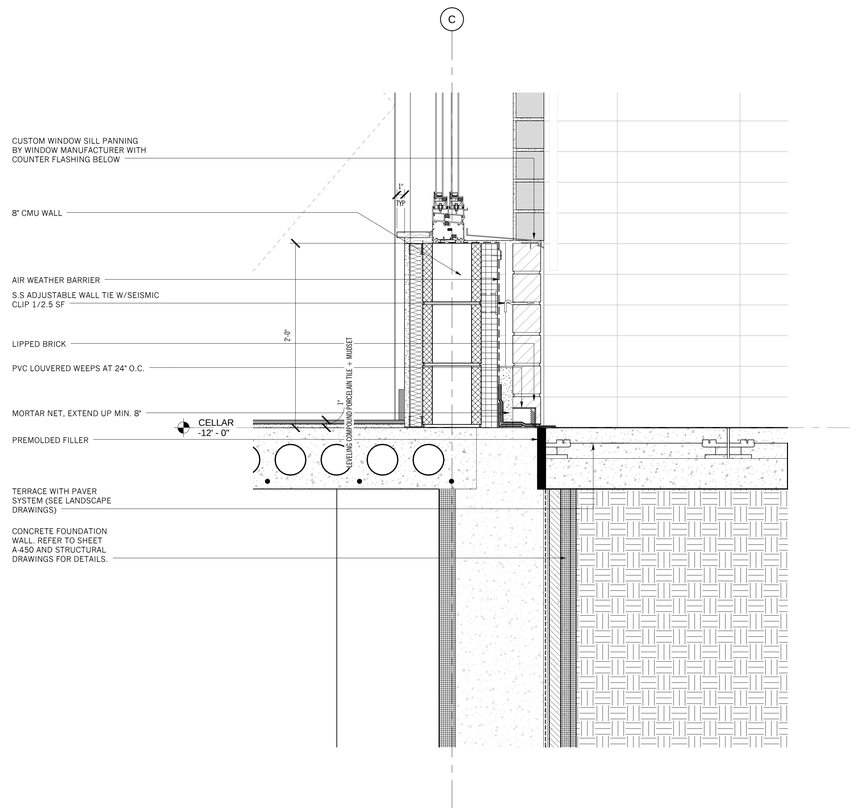
DOB ##### ZONE

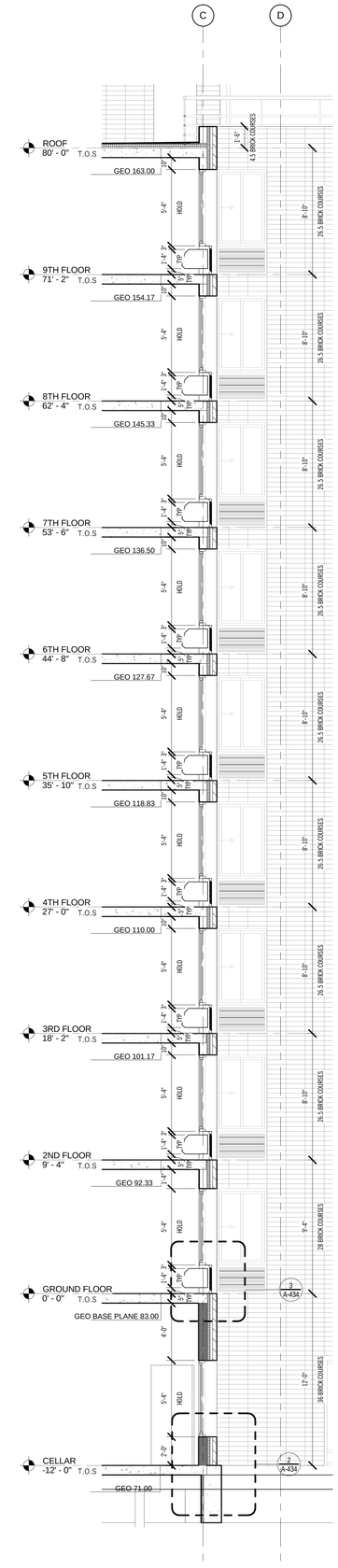
1/29/2016 4:31:27 PM



3 SECTION - NORTH WALL - GROUND FLOOR
1 1/2" = 1'-0"



2 SECTION - NORTH WALL - CELLAR FLOOR
1 1/2" = 1'-0"



1 SECTION - NORTH WALL
1/4" = 1'-0"

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CLIENT **HUDSON COMPANIES INCORPORATED**

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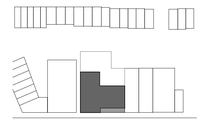
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

EXTERIOR WALL SECTIONS AND DETAILS

DRAWING #: A-434 00

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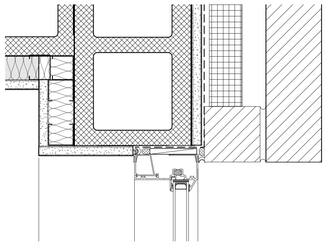
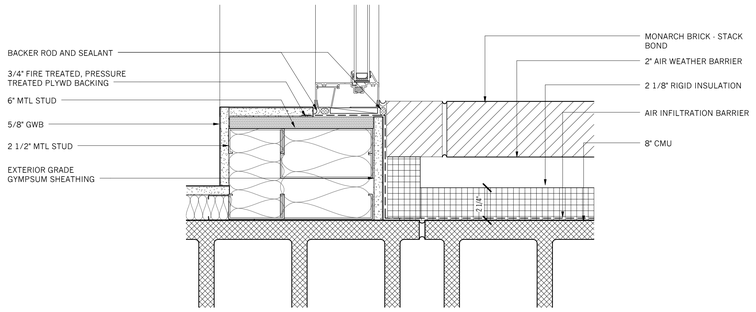
DOB ##### ZONE

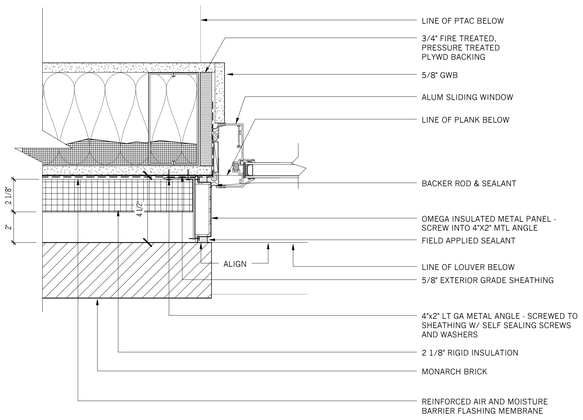
GENERAL NOTES:

1. - INTERIOR AND CAVITY INSULATION MUST BE PROTECTED FROM AIR AND MOISTURE INTRUSION, AND FREE OF VOIDS, GAPS AND COMPRESSION.
2. - CAVITY INSULATION MUST BE IN CONTACT WITH THE INTERIOR WALL SURFACE (I.E. DRYWALL) AND COMPLETELY FILL THE INTERIOR WALL CAVITY.
3. - SPRINKLER SYSTEMS TO BE DESIGNED TO NOT INTERFERE WITH THE PERFORMANCE OF THERMAL AND AIR BARRIERS.
4. - ALL FASTENERS FOR UHPC, CONC. PANELS SHALL BE COLOR-MATCHED. PROVIDE SAMPLE FOR ARCHITECTS APPROVAL
5. - SOLID FILLED PLANK EDGE MIN. 30" FROM END OF PLANK, TYPICAL AT ALL PLANK @ ROOF/TERRACE EDGES

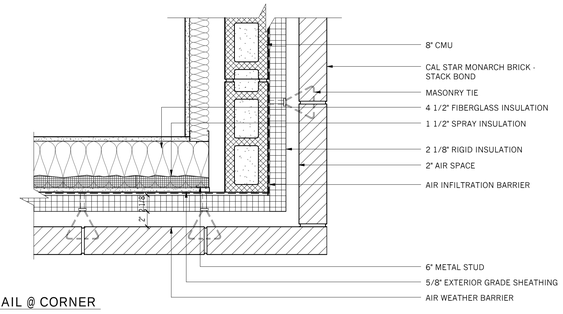




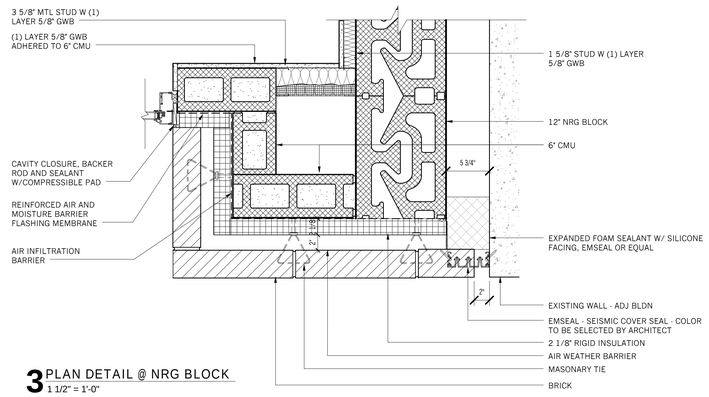
6 PLAN DETAIL - WDW @ INTERIOR CORNER
3" = 1'-0"



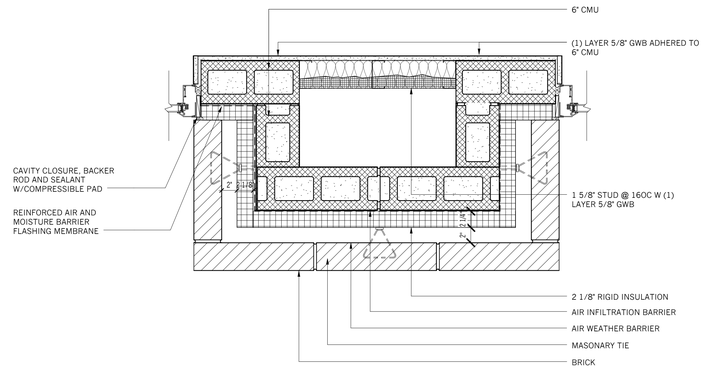
5 TYPICAL WINDOW JAMB DETAIL @ SOUTH FACADE
3" = 1'-0"



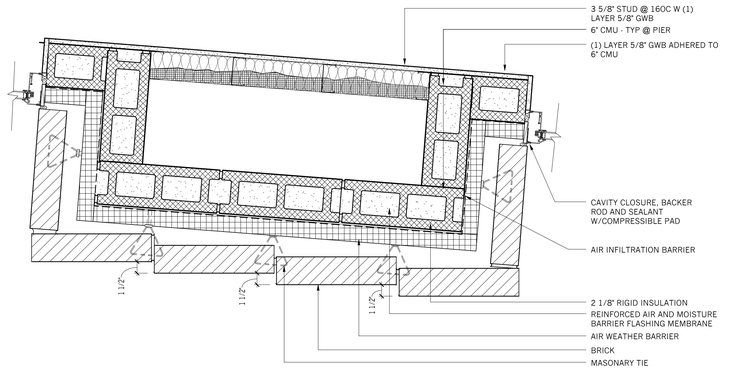
4 PLAN DETAIL @ CORNER
1 1/2" = 1'-0"



3 PLAN DETAIL @ NRG BLOCK
1 1/2" = 1'-0"



2 PLAN DETAIL @ STRAIGHT BRICK PIER
1 1/2" = 1'-0"



1 PLAN DETAIL @ SLANTED BRICK PIER
1 1/2" = 1'-0"

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STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

EXTERIOR WALL DETAILS - PLAN

REGISTERED ARCHITECT JONATHAN JOUR MARVEL 026 050 STATE OF NEW YORK

DRAWING #: A-440 00

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1/29/2016 4:31:40 PM

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CLIENT **HUDSON COMPANIES INCORPORATED**

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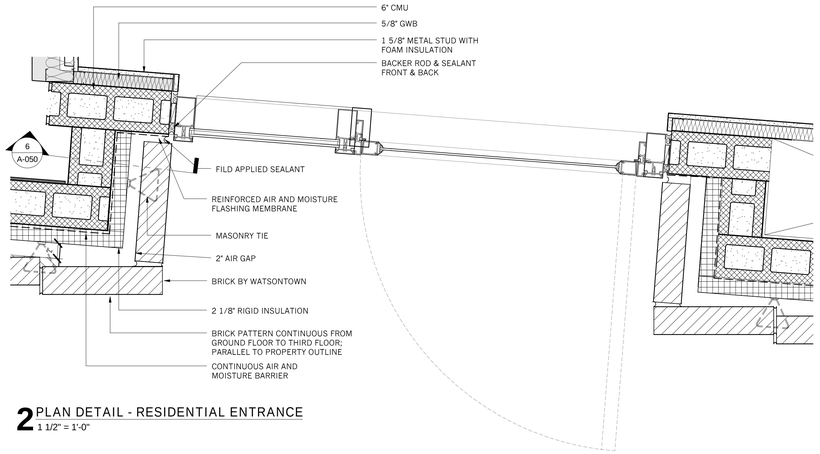
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

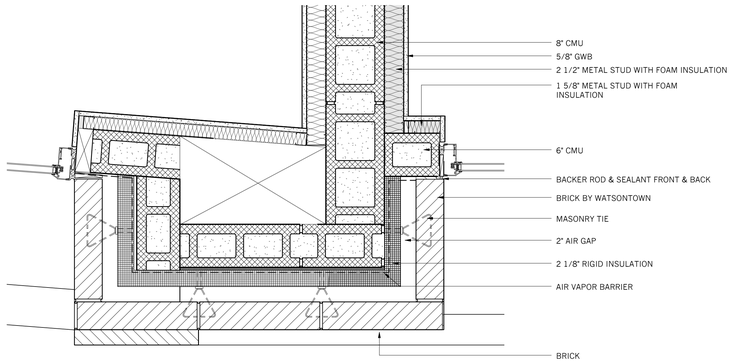
CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

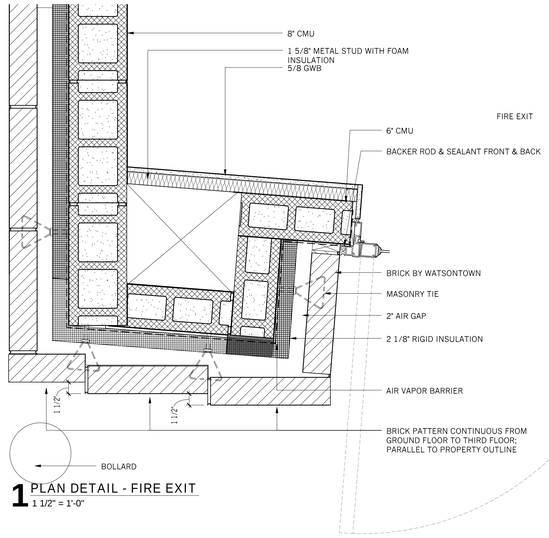
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**



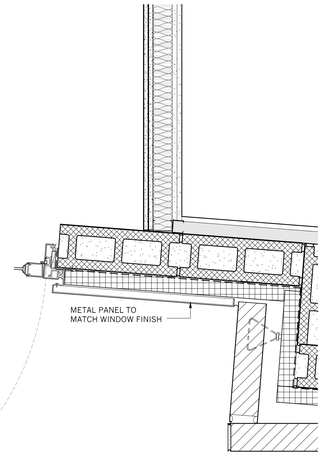
2 PLAN DETAIL - RESIDENTIAL ENTRANCE
1 1/2" = 1'-0"



3 PLAN DETAIL - BRICK PIER @ STRAIGHT/SLANT TRANSITION
1 1/2" = 1'-0"



1 PLAN DETAIL - FIRE EXIT
1 1/2" = 1'-0"



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7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505

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BROOKLYN, NY 11238

EXTERIOR WALL DETAILS - PLAN

DRAWING #: A-441 00

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1/29/2016 4:31:44 PM

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CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

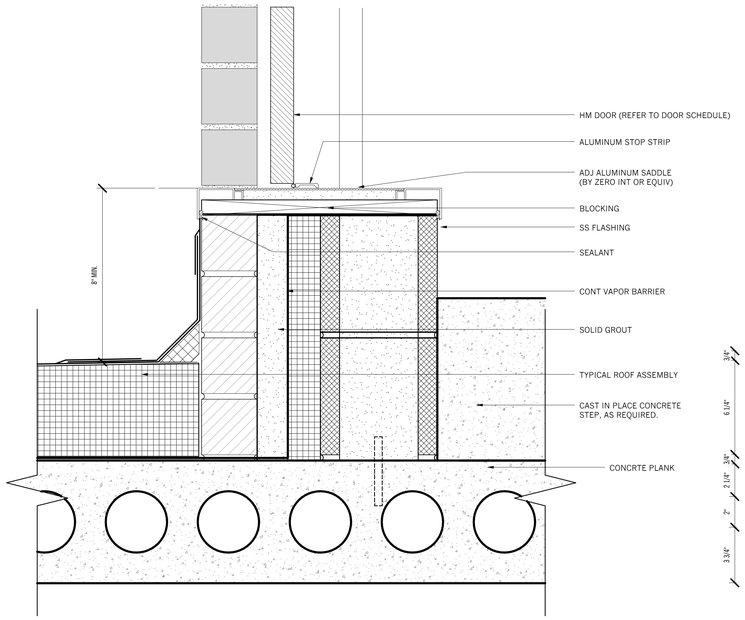
MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

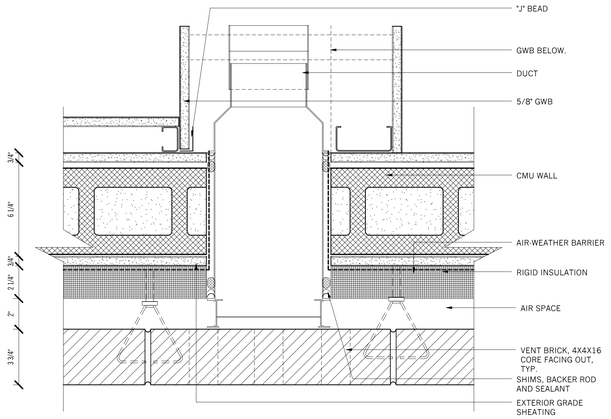
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

6 **TYPICAL PRECAST CONCRETE LINTEL HEAD DETAIL**
3" = 1'-0"



5 **BRICK VENT JAMB DETAIL @ CMU WALL**
3" = 1'-0"



4 **BRICK VENT JAMB DETAIL @ CMU WALL**
3" = 1'-0"

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1	06.05.2015	ISSUED FOR 100% SD
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7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505

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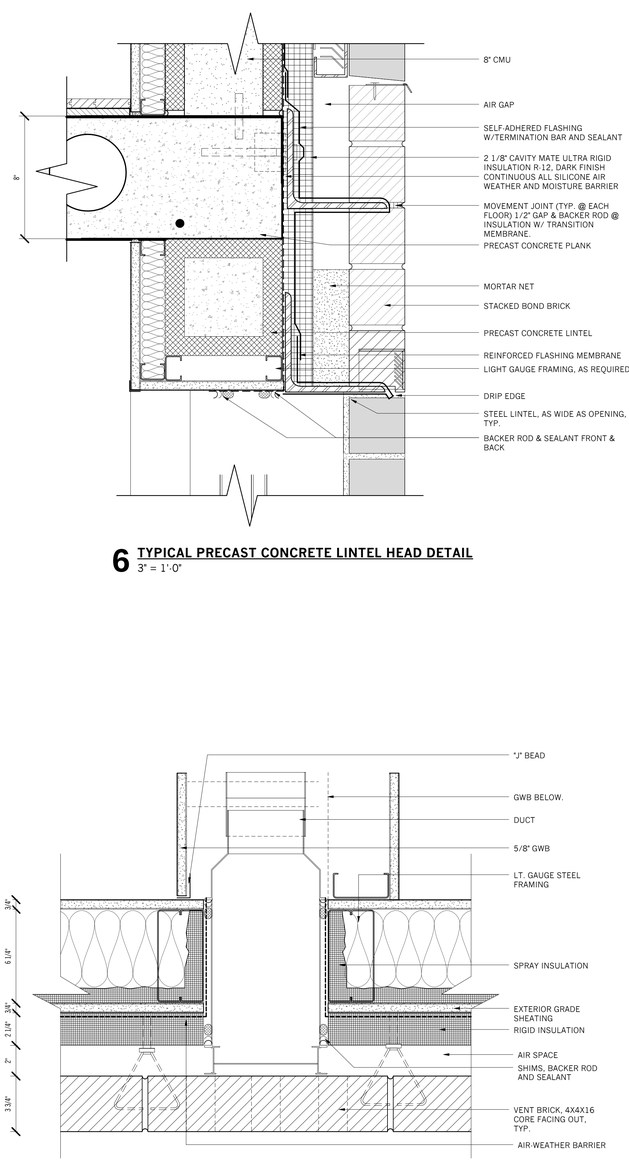
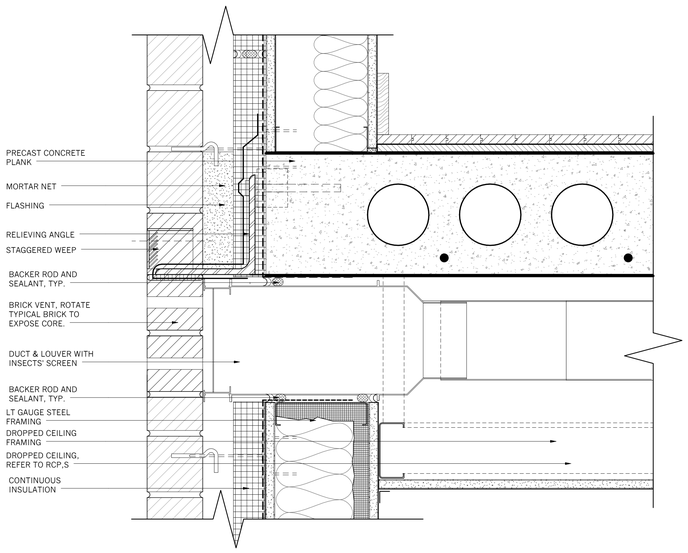
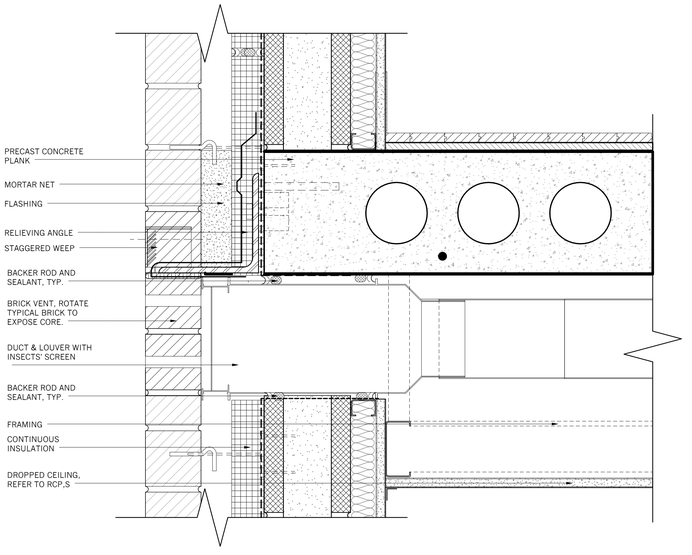


3 **VENT BRICK JAMB DETAIL @ STUD WALL**
3" = 1'-0"



2 **VENT BRICK DETAIL @ METAL STUD WALL**
3" = 1'-0"



1 **VENT BRICK DETAIL @ CMU WALL**
3" = 1'-0"

TYPICAL EXTERIOR DETAILS

REGISTERED ARCHITECT JONATHAN JOVA MARVEL No. 021651 STATE OF NEW YORK

DRAWING #: A-442 00

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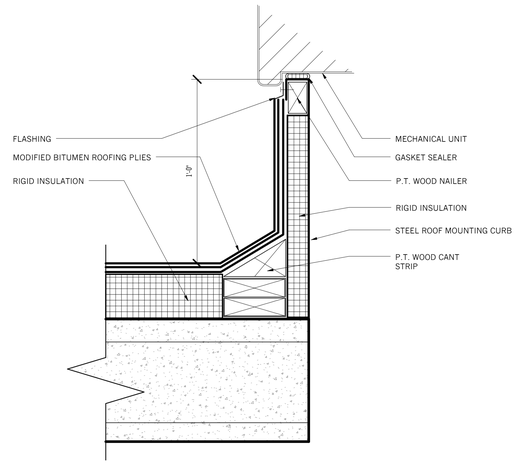
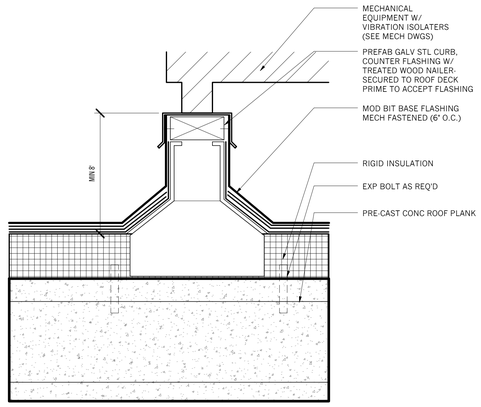
DOB ##### ZONE

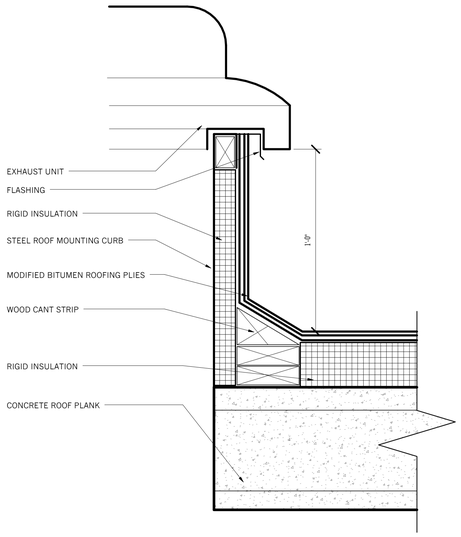
1/29/2016 4:31:52 PM



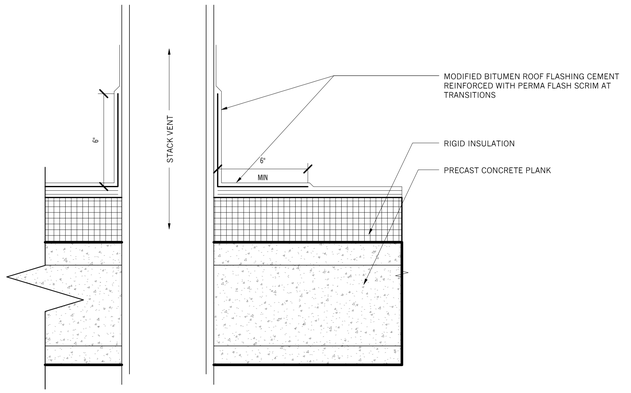
8 **MECHANICAL EQUIPMENT CURB DETAILS**
3"=1'-0"



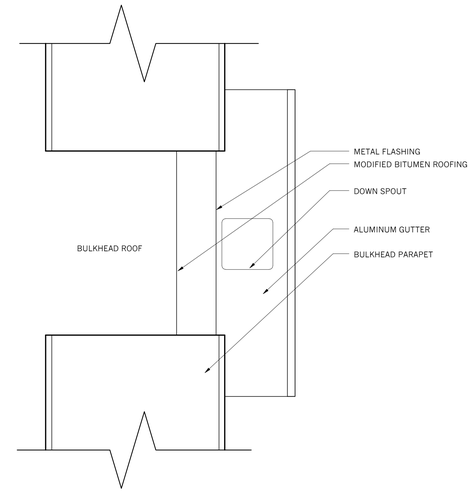
7 **MECHANICAL EQUIPMENT CURB DETAILS**
3"=1'-0"



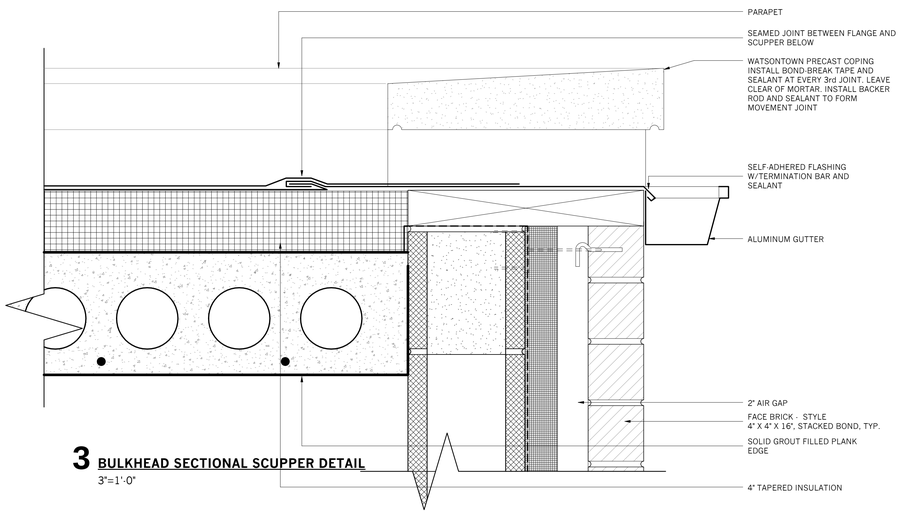
6 **DETAIL @ EXHAUST CHUTE**
3"=1'-0"



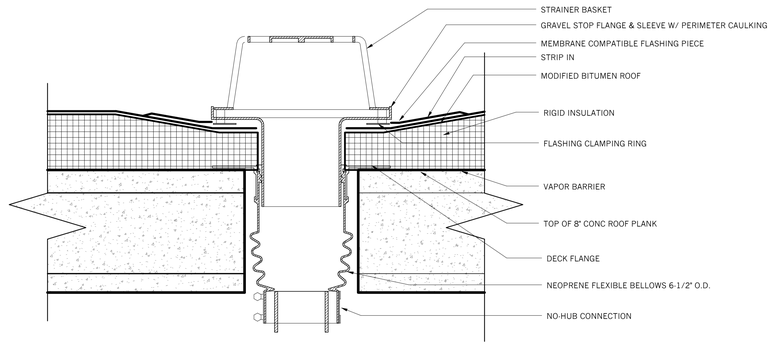
5 **DETAIL @ STACK VENT**
3"=1'-0"



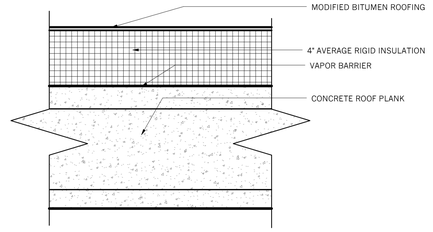
4 **BULKHEAD SCUPPER PLAN DETAIL**
3"=1'-0"



3 **BULKHEAD SECTIONAL SCUPPER DETAIL**
3"=1'-0"



2 **ROOF DRAIN DETAIL**
3"=1'-0"



1 **TYPICAL ROOF ASSEMBLY**
3"=1'-0"

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CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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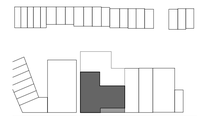
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
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909 ATLANTIC AVE.
BROOKLYN, NY 11238

TYPICAL ROOF DETAILS

DRAWING #: A-443 00

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CLIENT **HUDSON COMPANIES INCORPORATED**

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ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

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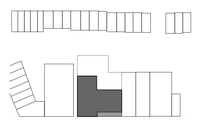
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

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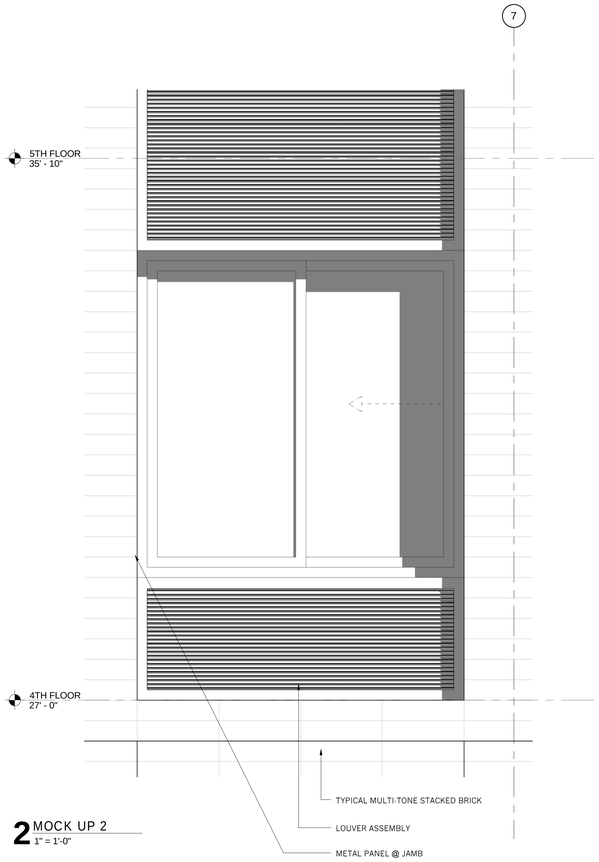
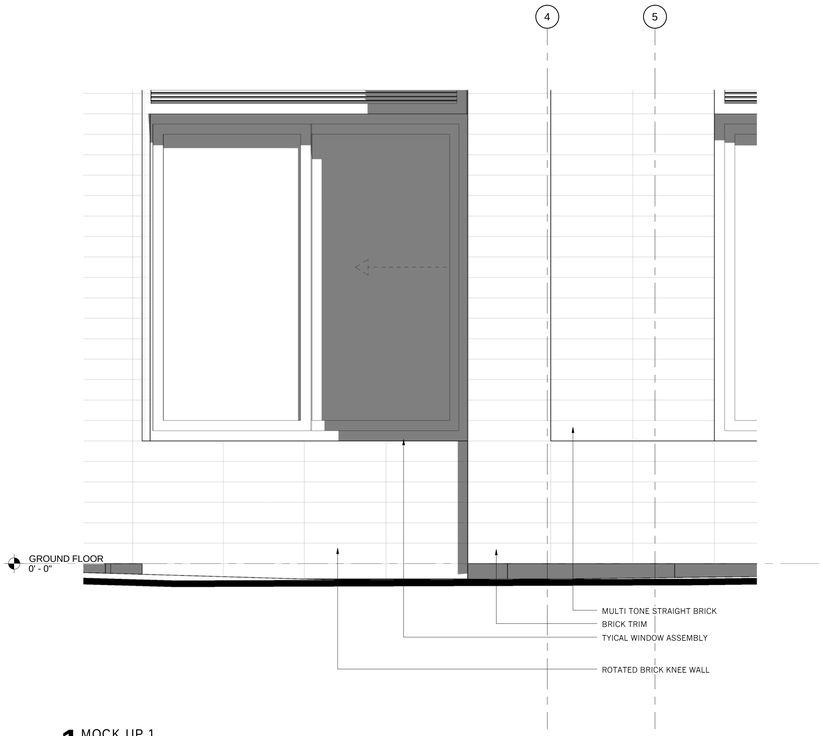
MOCK UPS



2 MOCK UP 2
1" = 1'-0"



1 MOCK UP 1
1" = 1'-0"

REGISTERED ARCHITECT
JONATHAN JOVA MARVEL
No. 021490
STATE OF NEW YORK

DRAWING #: A-444 00

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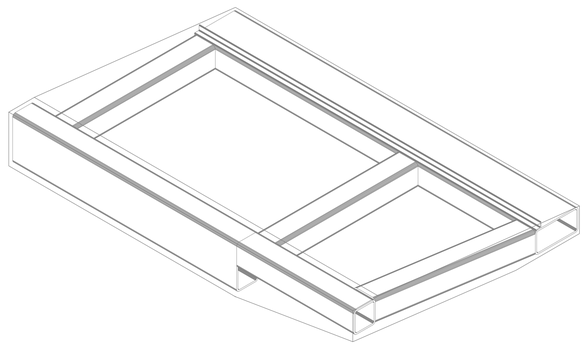
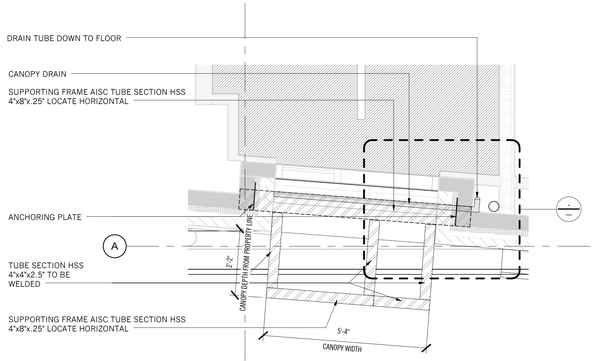
DOB STAMP ZONE

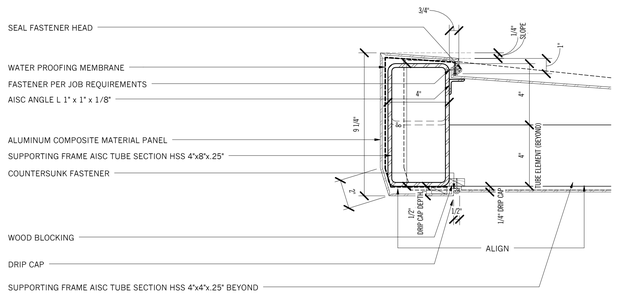
DOB ##### ZONE

1/29/2016 4:32:02 PM

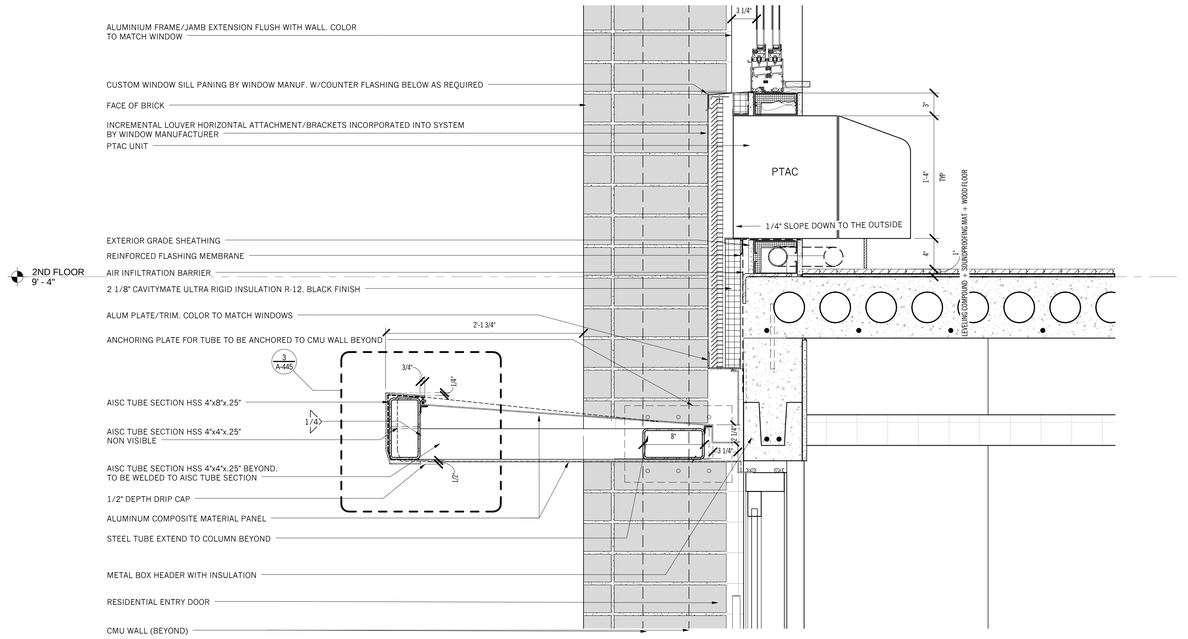




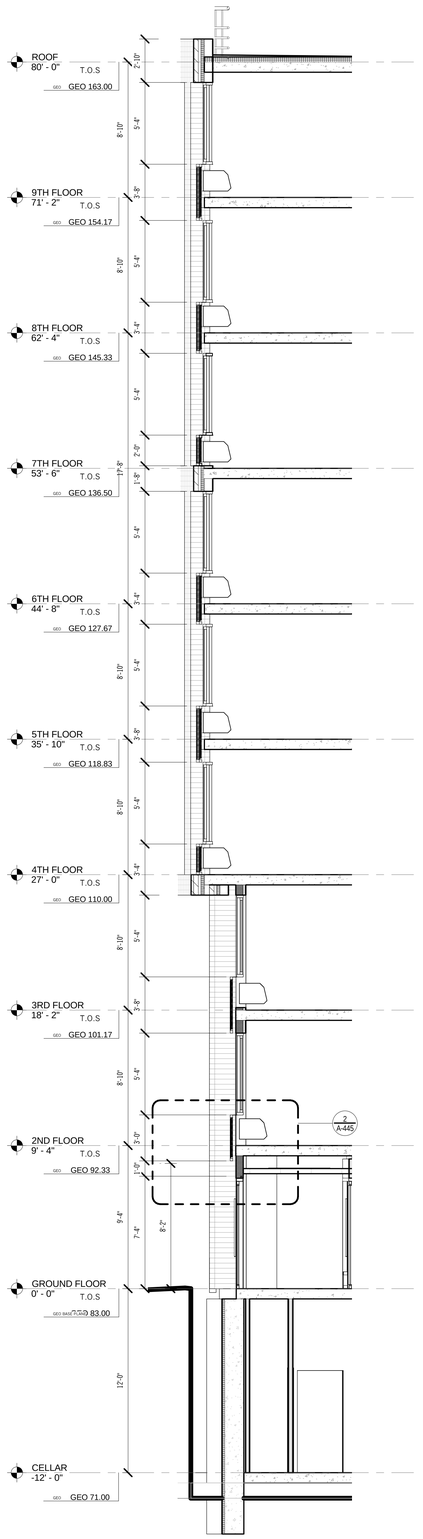
4 GROUND FLOOR REFLECTED CEILING PLAN - ENTRANCE CANOPY
1/2" = 1'-0"



3 DETAIL SECTION - ENTRANCE CANOPY
3" = 1'-0"



2 SECTION - ENTRANCE CANOPY - Callout 1
1 1/2" = 1'-0"



1 SECTION - ENTRANCE CANOPY
1/4" = 1'-0"

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145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

ENTRANCE CANOPY DETAILS

DRAWING #: A-445 00

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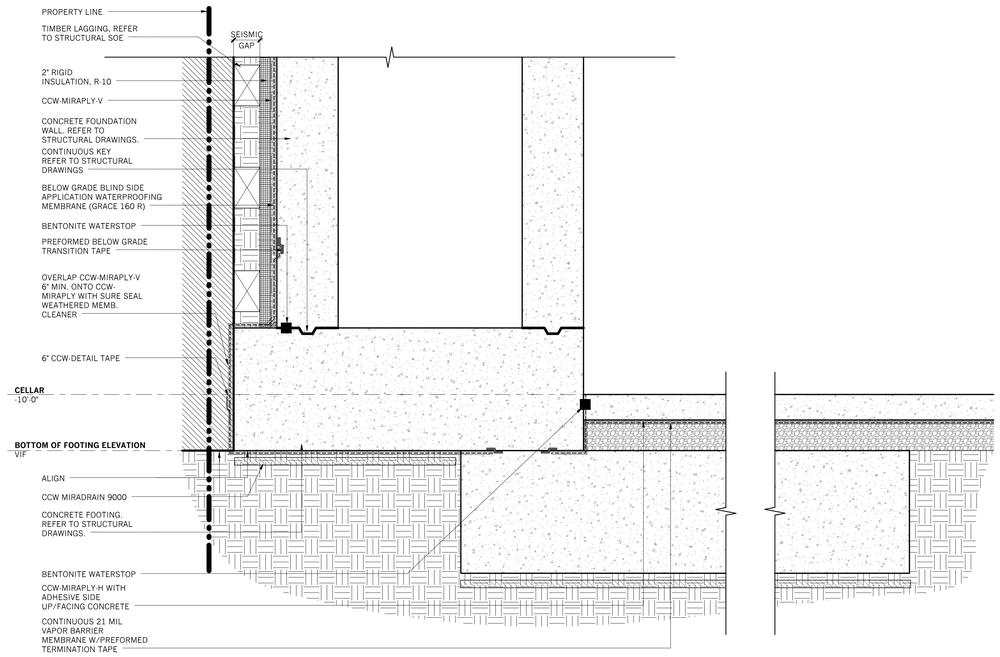
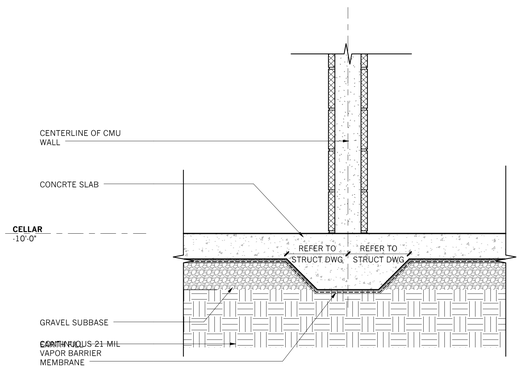
GENERAL PLAN NOTES

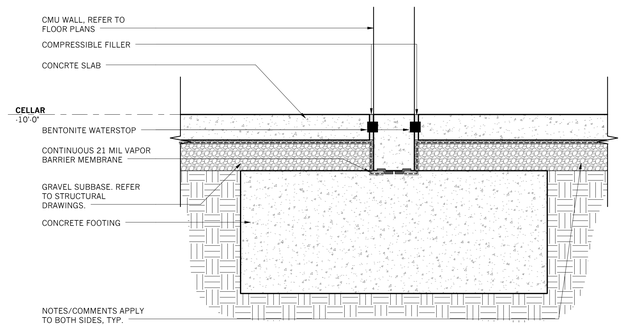
1. FOR ADDITIONAL DESIGN REQUIREMENTS REFER TO STRUCTURAL DRAWINGS



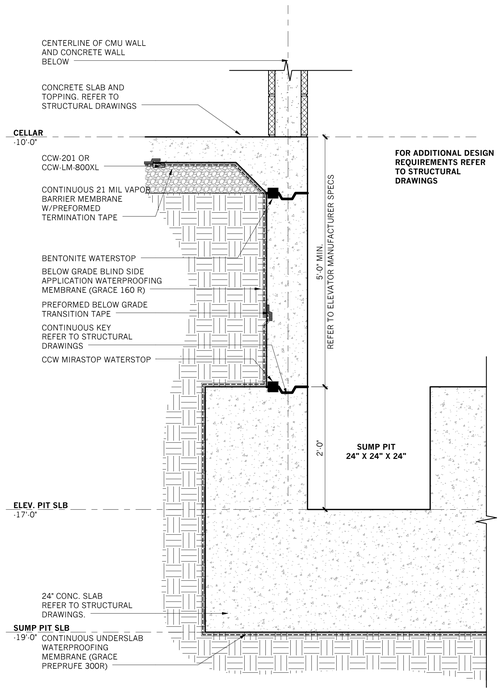
7 STEPPED FOOTING AT PROPERTY LINE
1"=1'-0"



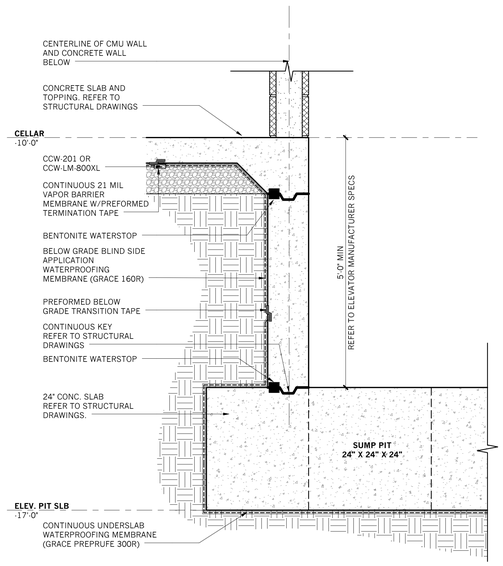
6 TYPICAL EXTERIOR CONCRETE FOUNDATION WALL
1"=1'-0"



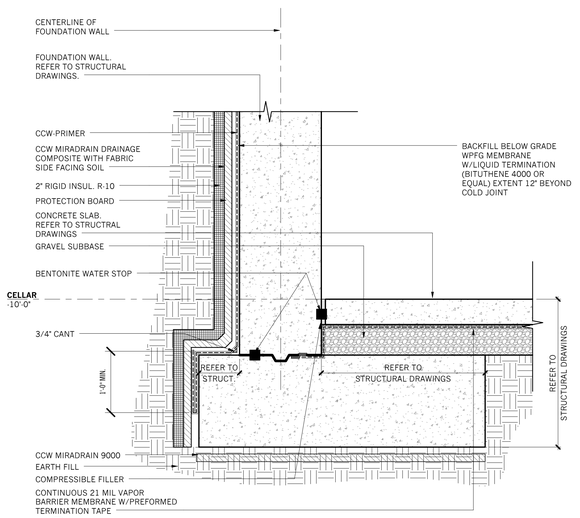
5 CONCRETE STEM WALL AT FOUNDATION
1"=1'-0"



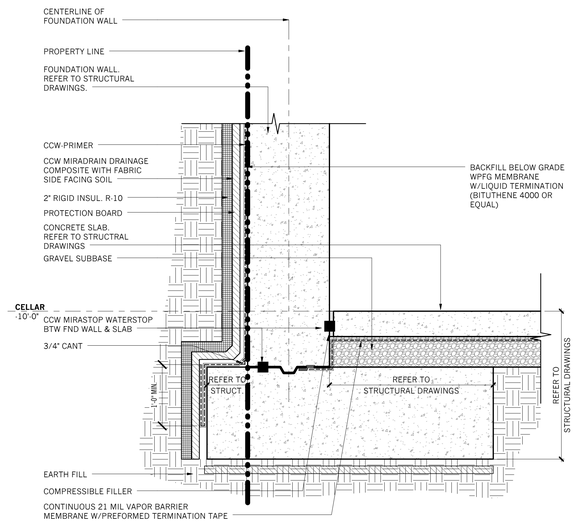
4 FOUNDATION OPENING AT SUMP PIT
1"=1'-0"



3 FOUNDATION OPENING AT ELEVATOR PIT
1"=1'-0"



2 TYPICAL EXTERIOR CONCRETE FOUNDATION WALL
1"=1'-0"



1 EXTERIOR CONCRETE FOUNDATION WALL AT STREET
1"=1'-0"

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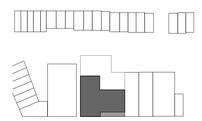
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

FOUNDATION DETAILS

DRAWING #: A-450 00

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CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

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5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

4 BKHD DETAIL - BULKHEAD PARAPET
1 1/2" = 1'-0"

3 BKHD DETAIL - BULKHEAD WALL TO BULKHEAD CEILING
1 1/2" = 1'-0"

2 BKHD DETAIL - BULKHEAD + ROOF
1 1/2" = 1'-0"

1 SECTION - BULKHEAD ENLARGED
1/4" = 1'-0"

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

BULKHEAD

DRAWING #: A-451 00

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DOB ##### ZONE

DOB STAMP ZONE

1/29/2016 4:32:25 PM

WINDOW EXTERIOR / DOOR NOTES:

1. ALL WINDOWS AND DOORS GLASS TO BE CLEAR NON-TINTED.
2. PROVIDE TEMPERED GLASS FOR GLAZING UNITS WITHIN 18" OF FINISH FLOOR.
3. ALL WINDOWS SHOWN FROM EXTERIOR.
4. REFER TO ELEVATIONS FOR STOREFRONT LOCATIONS.
5. O.C. TO COORDINATE WINDOWS @ DOORS SWINGS WITH FLOOR ???
6. ALL WINDOWS TO BE CONSTRUCTED OF ALUMINUM FRAME WITH THERMAL BREAK, DOUBLE PANE, CLEAR, SHGC 0.40, UF 0.45. SEE ENVELOPE COMPLIANCE CERTIFICATE.
7. ALL WINDOWS @ DOORS TO COMPLY WITH NOISE CONTROL FOR E-183 DESIGNATED AREA.
8. PROVIDE DOOR CLOSURE IN THE INSIDE OF ALL DOORS @ GROUND FLOOR @ ROOF LEVEL.
9. ALL WINDOWS TO INCLUDE ALUMINUM THERMALLY BROKEN FRAMES.

COMPLIANCE WITH ZR 123-32:
WINDOWS TO BE RATED FOR NOT LESS THAN 35 OITC WHEN TESTED FOR LABORATORY SOUND TRANSMISSION LOSS ACCORDING TO ASTM E 90 AND DETERMINED BY ASTM E 1332

GENERAL NOTES:

- PROVIDE ALUMINUM WINDOWS OF THE PERFORMANCE CLASS AND GRADE INDOCATED THAT COMPLY WITH AAMA/NWWDA 101/I.S.2.
- PERFORMANCE CLASS: AW-100 FOR WINDOWS, SWD-HC FOR DOORS
- ACOUSTICAL OBJECTIVES: ALL WINDOW/DOOR SYSTEMS TO ACHIEVE STRICT PROJECT REQUIREMENTS OF MAXIMUM ALLOWABLE NOISE TRANSMISSION DELATE TO NEW YORK CITY ZONING RESOLUTION SECTION 123-32.
- ACOUSTICAL MOCK-UP TESTING IS A REQUIREMENT OF AND SHALL BE INBCLUDED WITHIN THE BID REQUIREMENTS AS A SUPPLEMENTAL ATTACHMENT
- LABORATORY TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM E90 AT AN INDEPENDENT LABORATORY CERTIFIED/EXPERIENCED IN PERFORMING ASTM E90 TESTING OF WINDOW SYSTEMS.

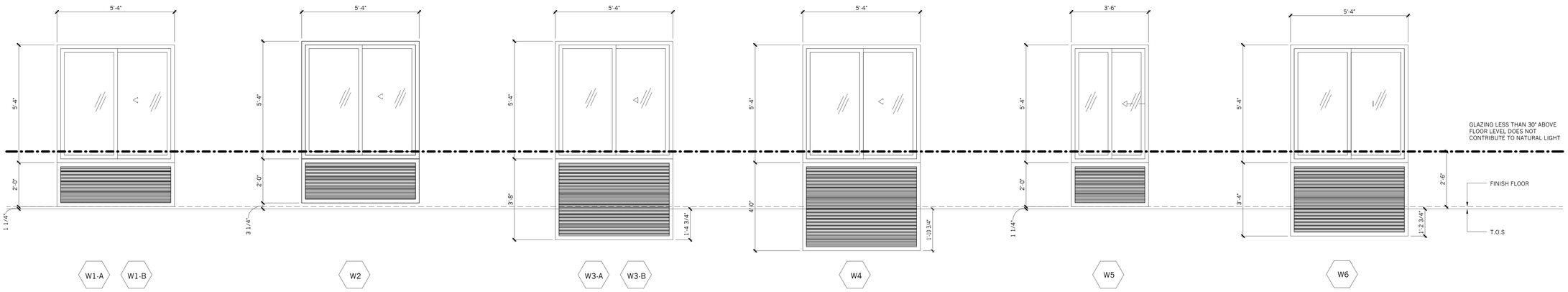
OITC RATINGS SHALL BE CALCULATED IN ACCORDANCE WITH ASTM E1332. TRICKLE VENTS AND EXTERIOR RECEPTORS SHALL BE INSTALLED AND IN THE "OPEN" POSITION FOR THE ACOUSTICAL TESTING

LEGEND

(H) WINDOW TAG

WINDOW SCHEDULE

Type Mark	Count	Operation	Window Width	Window Height	Total-Glazed Area	Total Operable Area	Louver Width	Louver Height	Comments
W1-A	8	SLIDING	5' - 4"	5' - 4"	20.25 SF	12.08 SF	5' - 4"	2' - 0"	INTEGRAL LOUVER BELOW BY WINDOW MANUFACTURER
W1-B	91	SLIDING	5' - 4"	5' - 4"	20.25 SF	12.08 SF	5' - 4"	2' - 0"	INTEGRAL LOUVER BELOW BY WINDOW MANUFACTURER
W2	4	SLIDING	5' - 4"	5' - 4"	21.00 SF	12.08 SF	5' - 4"	2' - 0"	INTEGRAL LOUVER BELOW BY WINDOW MANUFACTURER
W3-A	10	SLIDING	5' - 4"	5' - 4"	21.00 SF	12.08 SF	5' - 4"	3' - 8"	INTEGRAL LOUVER BELOW BY WINDOW MANUFACTURER
W3-B	19	SLIDING	5' - 4"	5' - 4"	21.00 SF	12.08 SF	5' - 4"	3' - 8"	INTEGRAL LOUVER BELOW BY WINDOW MANUFACTURER
W4	9	SLIDING	5' - 4"	5' - 4"	20.25 SF	12.08 SF	5' - 4"	4' - 0"	INTEGRAL LOUVER BELOW BY WINDOW MANUFACTURER
W5	9	SLIDING	3' - 6"	5' - 4"	12.00 SF	7.50 SF	3' - 6"	2' - 0"	INTEGRAL LOUVER BELOW BY WINDOW MANUFACTURER
W6	19	SLIDING	5' - 4"	5' - 4"	20.25 SF	12.08 SF	5' - 4"	3' - 4"	INTEGRAL LOUVER BELOW BY WINDOW MANUFACTURER
W7	5	SLIDING	5' - 4"	5' - 4"	20.25 SF	12.08 SF	0' - 0"	0' - 0"	N/A
W8	6	SLIDING	5' - 4"	4' - 6"	17.25 SF	10.07 SF	5' - 4"	2' - 10"	INTEGRAL LOUVER BELOW BY WINDOW MANUFACTURER
W9	1	SLIDING	5' - 4"	4' - 4"	16.50 SF	9.67 SF	5' - 4"	4' - 4"	INTEGRAL LOUVER BELOW BY WINDOW MANUFACTURER
W10	1	SLIDING	5' - 4"	4' - 6"	17.25 SF	10.07 SF	5' - 4"	4' - 6"	INTEGRAL LOUVER BELOW BY WINDOW MANUFACTURER
W11	1	SLIDING	5' - 4"	5' - 4"	20.25 SF	12.08 SF	5' - 4"	3' - 0"	INTEGRAL LOUVER BELOW BY WINDOW MANUFACTURER



W1-A W1-B
5'-4" X 5'-4" SLIDING WINDOW
5'-4" X 2'-0" LOUVER
LIGHT PROVIDED = 20.25 SQ. FT.
AIR PROVIDED = 12.08 SQ. FT.

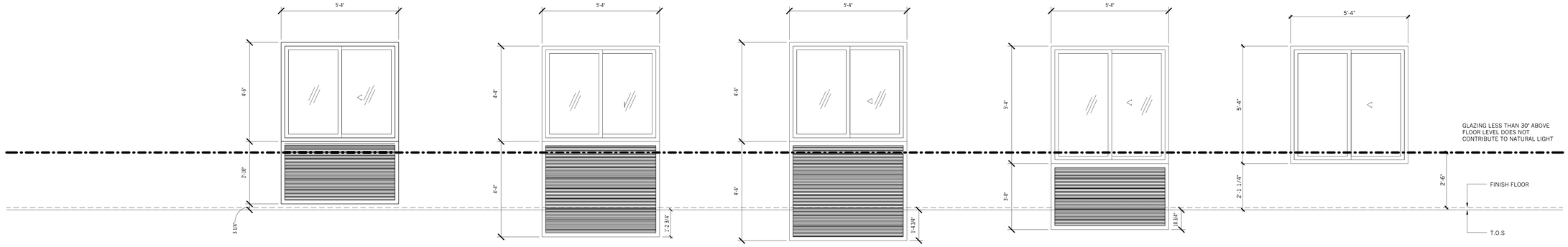
W2
5'-4" X 5'-4" SLIDING WINDOW
5'-4" X 2'-0" LOUVER
LIGHT PROVIDED = 21.00 SQ. FT.
AIR PROVIDED = 12.08 SQ. FT.

W3-A W3-B
5'-4" X 5'-0" SLIDING WINDOW
5'-4" X 3'-8" LOUVER
LIGHT PROVIDED = 21.00 SQ. FT.
AIR PROVIDED = 12.08 SQ. FT.

W4
5'-4" X 5'-4" SLIDING WINDOW
5'-4" X 4'-0" LOUVER
LIGHT PROVIDED = 20.25 SQ. FT.
AIR PROVIDED = 12.08 SQ. FT.

W5
3'-6" X 5'-4" SLIDING WINDOW
3'-6" X 2'-0" LOUVER
LIGHT PROVIDED = 12.00 SQ. FT.
AIR PROVIDED = 7.5 SQ. FT.

W6
5'-4" X 5'-4" SLIDING WINDOW
5'-4" X 3'-4" LOUVER
LIGHT PROVIDED = 20.25 SQ. FT.
AIR PROVIDED = 12.08 SQ. FT.



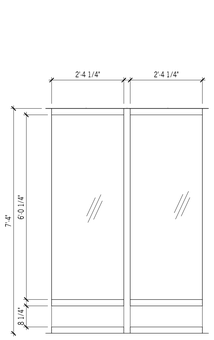
W8
5'-4" X 4'-6" SLIDING WINDOW
5'-4" X 2'-10" LOUVER
LIGHT PROVIDED = 17.25 SQ. FT.
AIR PROVIDED = 10.07 SQ. FT.

W9
5'-4" X 4'-4" SLIDING WINDOW
5'-4" X 4'-4" LOUVER
LIGHT PROVIDED = 16.50 SQ. FT.
AIR PROVIDED = 9.67 SQ. FT.

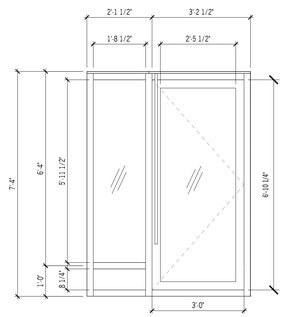
W10
5'-4" X 4'-6" SLIDING WINDOW
5'-4" X 4'-6" LOUVER
LIGHT PROVIDED = 17.25 SQ. FT.
AIR PROVIDED = 10.07 SQ. FT.

W11
5'-4" X 5'-4" SLIDING WINDOW
5'-4" X 3'-0" LOUVER
LIGHT PROVIDED = 20.25 SQ. FT.
AIR PROVIDED = 12.08 SQ. FT.

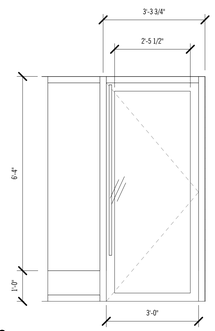
W7
5'-4" X 5'-4"
SLIDING WINDOW
LIGHT PROVIDED = 20.25 SQ. FT.
AIR PROVIDED = 12.08 SQ. FT.



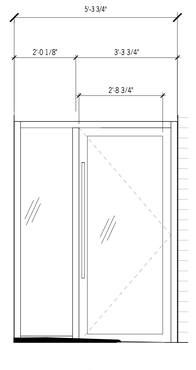
Z4



Z3



Z2



Z1

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Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED
OWNER ATHENA HOUSING ASSOCIATES LLC.
STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.
MEP ENGINEER EP ENGINEERING
CODE CONSULTING DESIGN 2147
ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES
LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
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4	09.25.2015	ISSUED FOR DOB #1
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6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

WINDOW TYPES AND SCHEDULE

REGISTERED ARCHITECT JONATHAN JOVA MARVEL No. 021480 STATE OF NEW YORK

DRAWING #: A-490.00

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1/29/2016 4:32:29 PM

WINDOW EXTERIOR / DOOR NOTES:

1. ALL WINDOWS AND DOORS GLASS TO BE CLEAR NON-TINTED.
2. PROVIDE TEMPERED GLASS FOR GLAZING UNITS WITHIN 18" OF FINISH FLOOR.
3. ALL WINDOWS SHOWN FROM EXTERIOR.
4. REFER TO ELEVATIONS FOR STOREFRONT LOCATIONS.
5. O.C. TO COORDINATE WINDOWS @ DOORS SWINGS WITH FLOOR ???
6. ALL WINDOWS TO BE CONSTRUCTED OF ALUMINUM FRAME WITH THERMAL BREAK, DOUBLE PANE, CLEAR, SHGC 0.40, UF 0.45. SEE ENVELOPE COMPLIANCE CERTIFICATE.
7. ALL WINDOWS @ DOORS TO COMPLY WITH NOISE CONTROL FOR E-183 DESIGNATED AREA.
8. PROVIDE DOOR CLOSURE IN THE INSIDE OF ALL DOORS @ GROUND FLOOR @ ROOF LEVEL.
9. ALL WINDOWS TO INCLUDE ALUMINUM THERMALLY BROKEN FRAMES.

COMPLIANCE WITH ZR 123-32:
WINDOWS TO BE RATED FOR NOT LESS THAN 35 OITC WHEN TESTED FOR LABORATORY SOUND TRANSMISSION LOSS ACCORDING TO ASTM E 90 AND DETERMINED BY ASTM E 1332

GENERAL NOTES:

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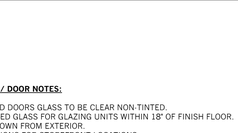
OITC RATINGS SHALL BE CALCULATED IN ACCORDANCE WITH ASTM E1332. TRICKLE VENTS AND EXTERIOR RECEPTORS SHALL BE INSTALLED AND IN THE "OPEN" POSITION FOR THE ACOUSTICAL TESTING

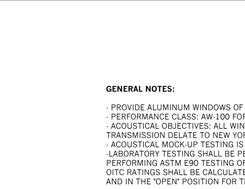
LOUVER SCHEDULE

Louver Type	Louver Width	Louver Height	Comments
L1	5' - 4"	2' - 0"	
L2	5' - 4"	3' - 8"	
L3	5' - 4"	4' - 0"	
L4	3' - 6"	2' - 0"	
L5	5' - 4"	3' - 4"	
L6	5' - 4"	2' - 10"	
L7	5' - 4"	4' - 4"	
L8	5' - 4"	4' - 6"	
L9	5' - 4"	3' - 0"	



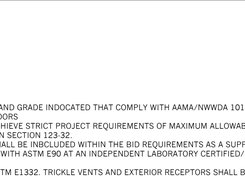
L1

5'-4" X 2'-0"
LOUVER



L2

5'-4" X 3'-8"
LOUVER



L3

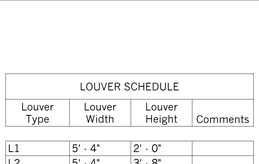
5'-4" X 4'-0"
LOUVER

L4

3'-6" X 2'-0"
LOUVER

L5

5'-4" X 3'-4"
LOUVER



L6

5'-4" X 2'-10"
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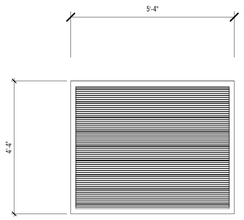
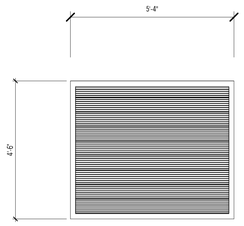


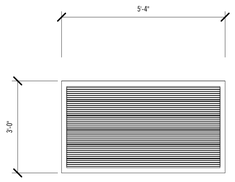
L7

5'-4" X 4'-4"
LOUVER



L8

5'-4" X 4'-6"
LOUVER



L9

5'-4" X 3'-0"
LOUVER

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CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 50% SD
2	07.31.2015	ISSUED FOR 50% DD
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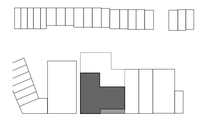
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

LOUVER TYPE AND SCHEDULE

DRAWING #: A-491 00

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DOB ##### ZONE

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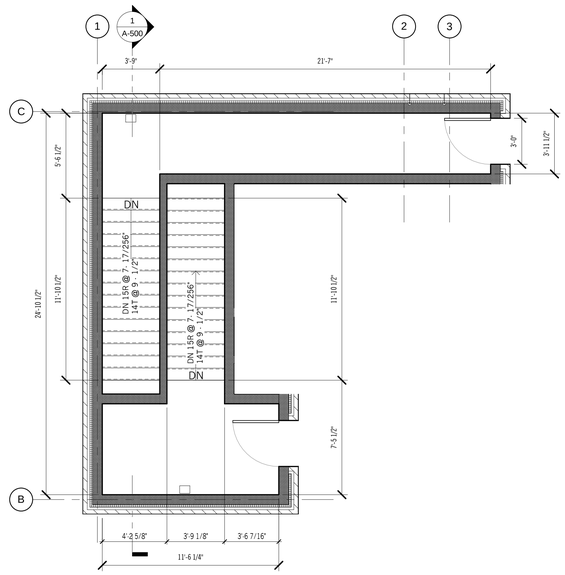
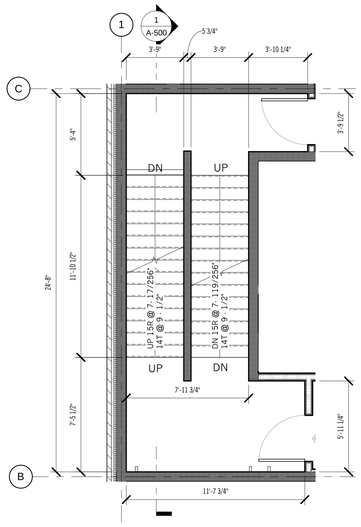
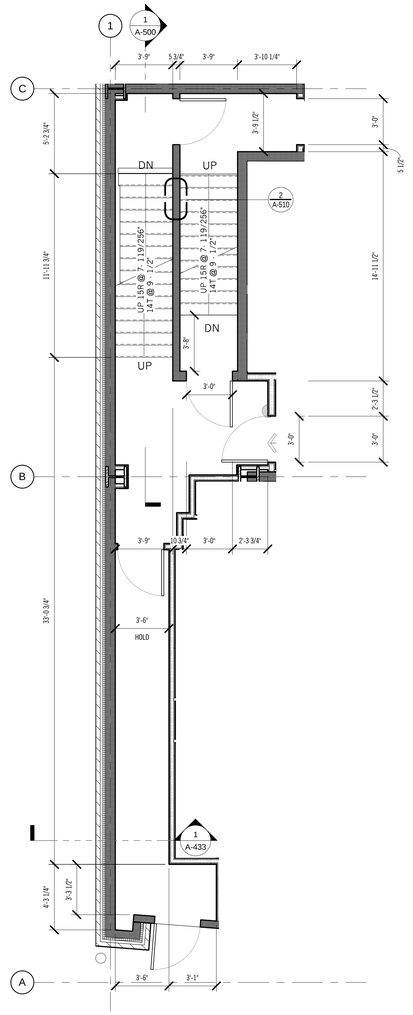


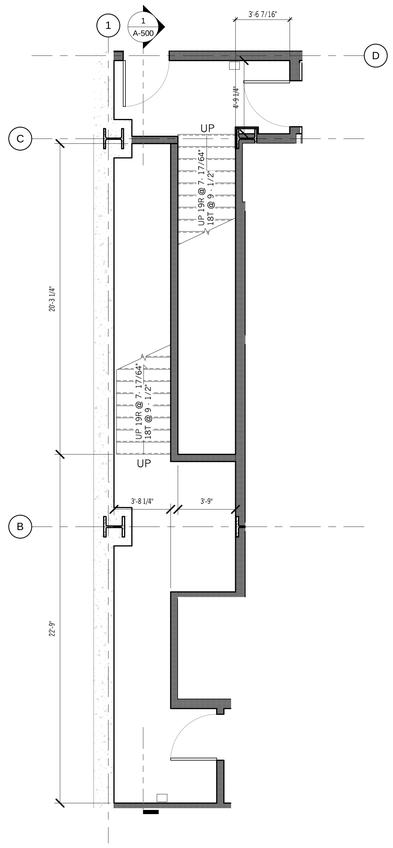
5 PLAN - ROOF - STAIRS
1/4" = 1'-0"



4 PLAN - 2ND-9TH FLOOR - STAIRS
1/4" = 1'-0"



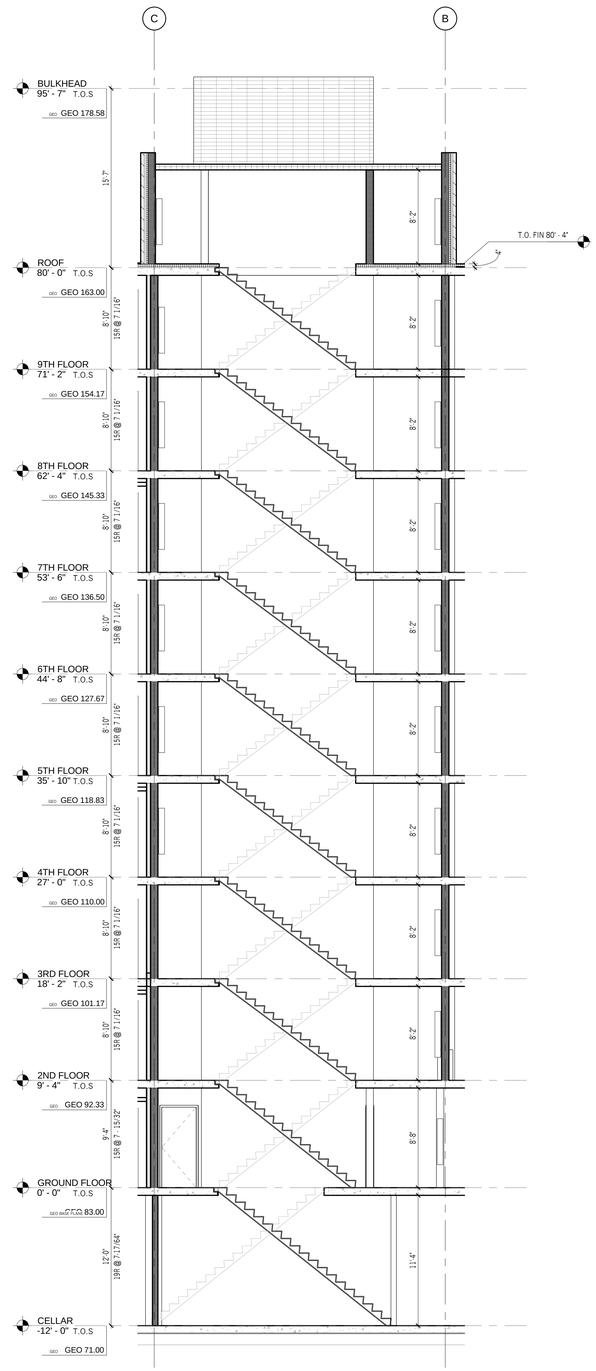
3 PLAN - 1ST FLOOR - STAIRS
1/4" = 1'-0"



2 PLAN - CELLAR - STAIRS
1/4" = 1'-0"

GENERAL STAIR NOTES

1. STAIR WALLS TO BE BLOCK FILLER AND PAINT
2. PTD-3 USED AT ALL HANDRAILS
3. PTD-4 USED AT 6" CMU CENTER WALL, TYP ALL FLOORS
4. TPD-5 USED AT 8" CMU PERIMETER WALLS, TYP ALL FLOORS



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

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MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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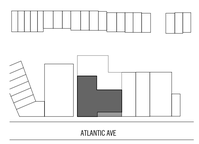
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

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STAIR A/B - PLANS

REGISTERED ARCHITECT
JONATHAN JOVIC MARVEL
No. 026261
STATE OF NEW YORK

DRAWING #: A-500 00

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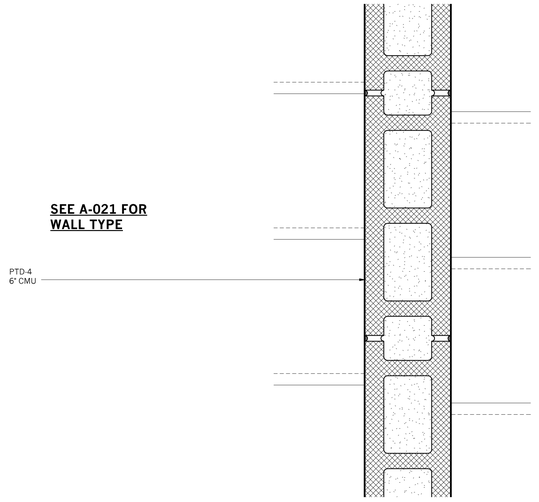
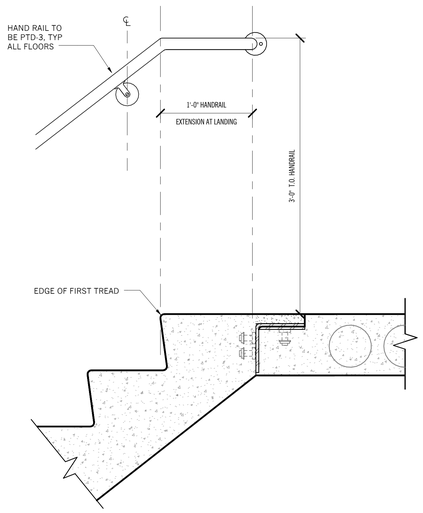
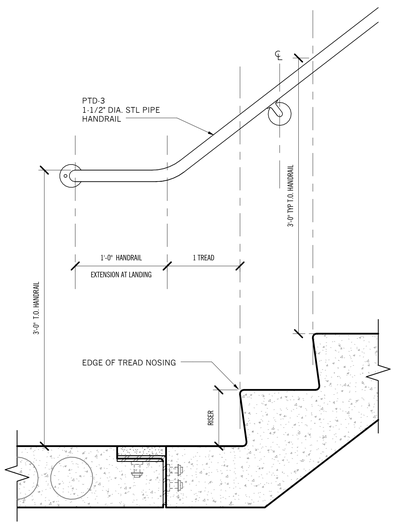


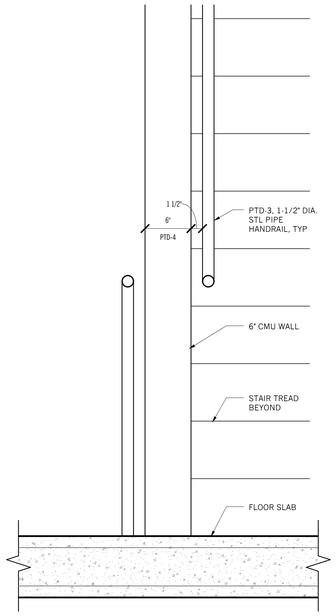
2 PLAN - TYPICAL STAIR DIVIDER WALL DETAIL
3" = 1'-0"



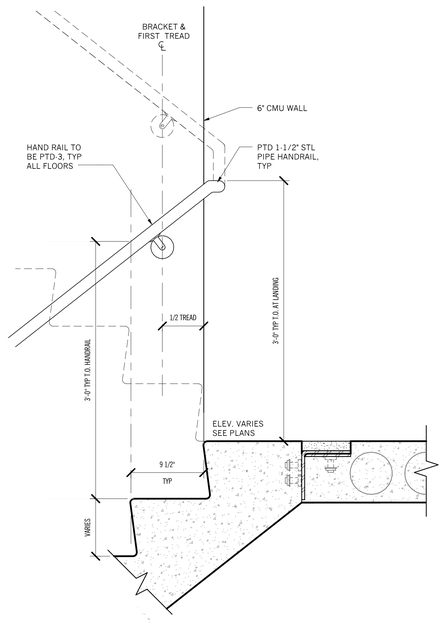
4 TYPICAL HANDRAIL AT UP STAIR
1 1/2"=1'-0"



2 TYPICAL HANDRAIL AT DOWN STAIR
1 1/2"=1'-0"



3 TYPICAL HANDRAIL ELEVATION AT LANDING
1 1/2"=1'-0"



1 TYPICAL STAIR LANDING DETAIL
1 1/2"=1'-0"

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STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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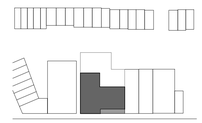
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

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STAIR DETAILS

DRAWING #: A-510 00

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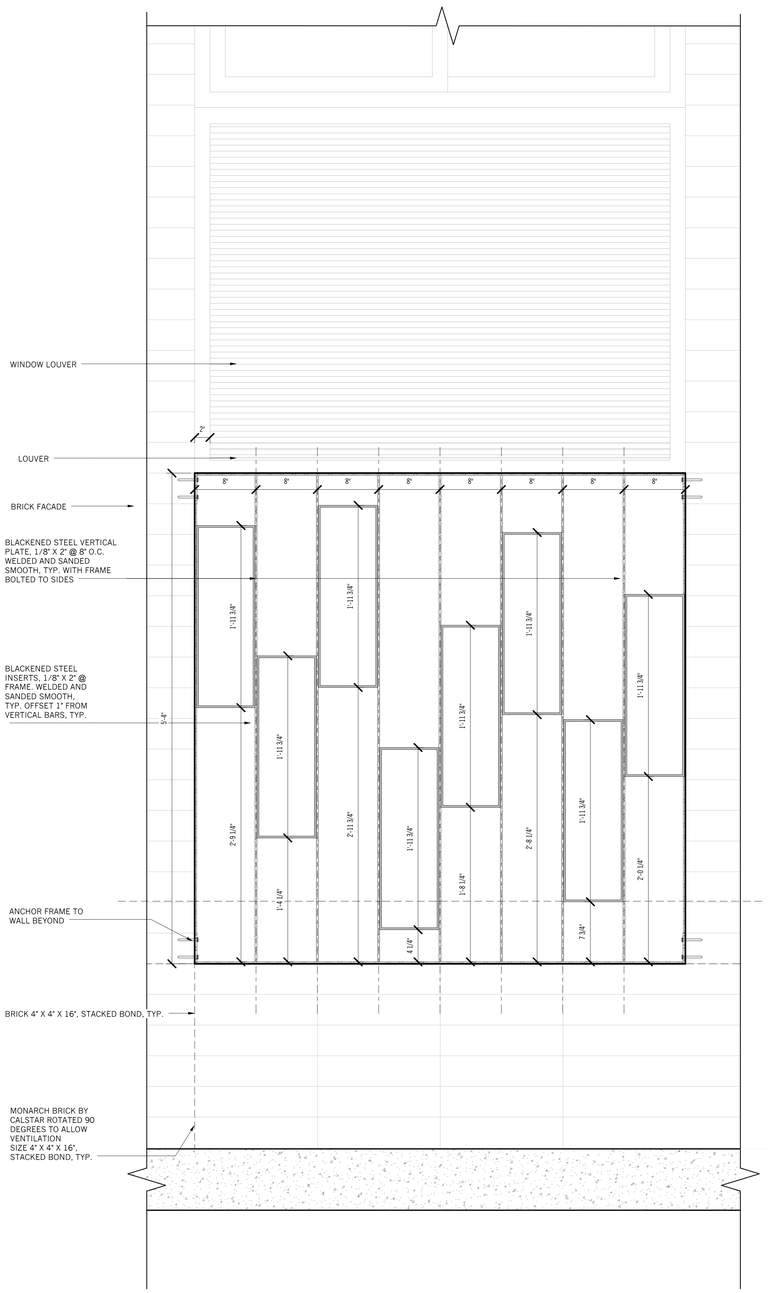
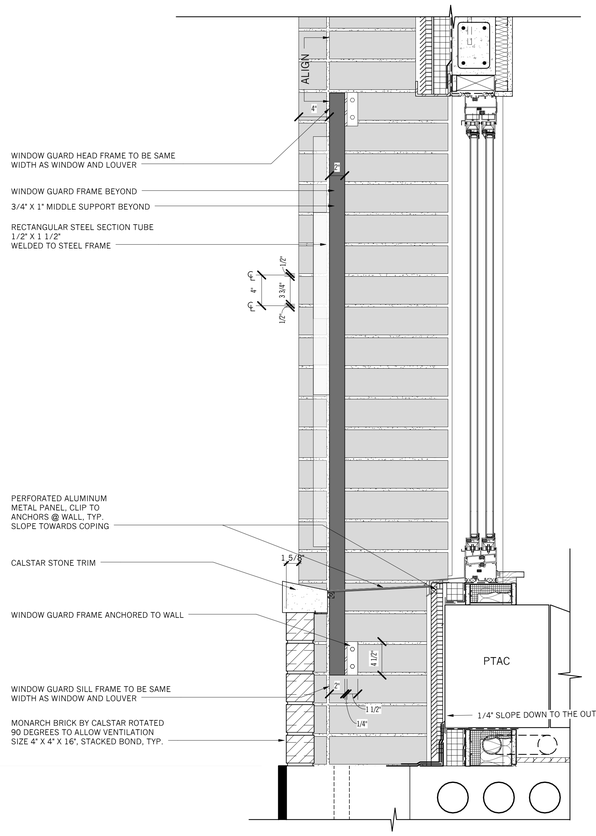
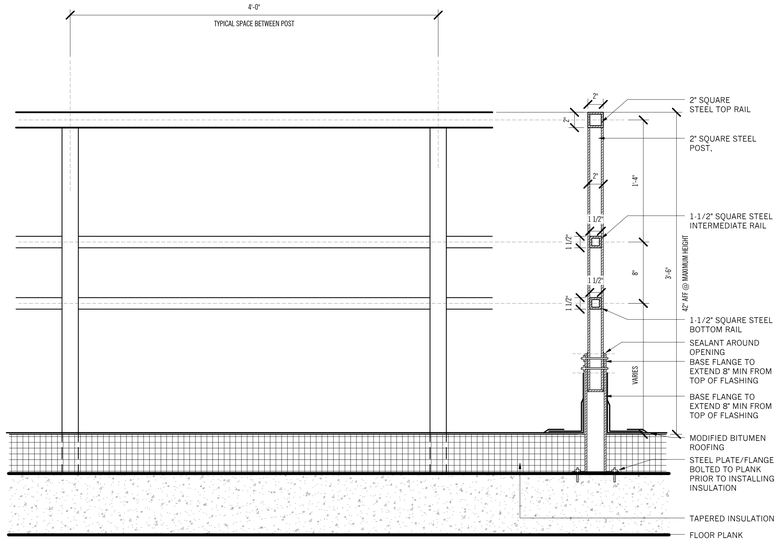


3 TYPICAL WINDOW GUARD DETAIL
1 1/2"=1'-0"



2 WINDOW GUARD DETAIL
1 1/2"=1'-0"

RAILING RENDERING



ELEVATION **SECTION**

1 TYPICAL GUARDRAIL DETAIL
1 1/2"=1'-0"

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CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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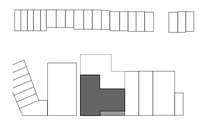
7	01.29.2016	ISSUED FOR 100% CD

100%CD **01.29.2016**



KEY PLAN:NTS

MA PROJECT NO. 1505
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RAILING AND WINDOW GUARD DETAILS

DRAWING #: A-511.00

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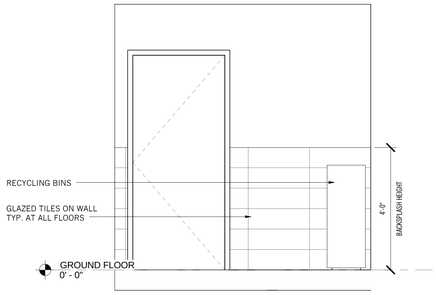
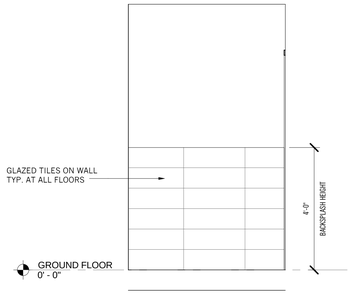
NOTE 1:

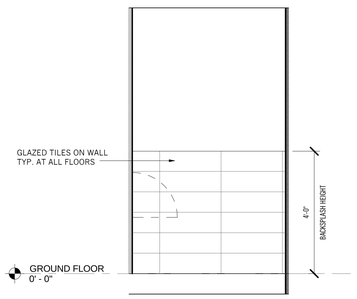
1. FIRE RATED DOOR WITH AUTOMATIC DOOR OPENER AND OCCUPANCY SENSOR. MIN. 36" CLEAR OPENING AS PER SECTION 4.2.4.2 AND FIG. 4(E) OF RS 4-6
2. PROVIDE 3 HR FIRE RATED WALLS & CEILING FOR REFUSE CHUTE & COMPACTOR ROOM.
3. CMU "CONC. BLOCK" NOMINAL SIZE 8"x8"x16" TO BE LAID IN FULL BED OF 3/8" MORTAR, VERTICAL JOINTS STAGGERED
4. REFUSE CHUTE & COMPACTOR ROOM ENCLOSURE TO HAVE MIN. OF 50 STC RATING.



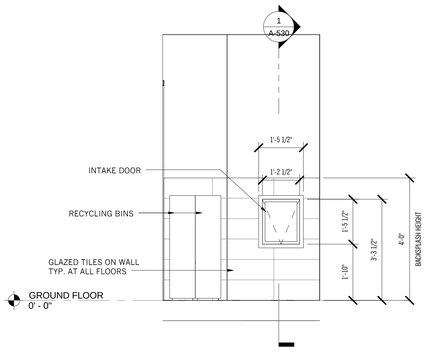
11 ELEV D - REFUSE CHUTE TYP ALL FLOORS
1/2" = 1'-0"



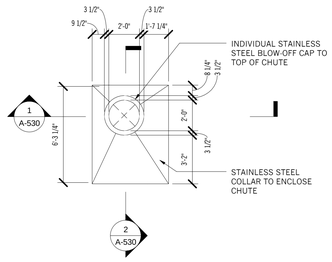
10 ELEV C - REFUSE CHUTE TYP ALL FLOORS
1/2" = 1'-0"



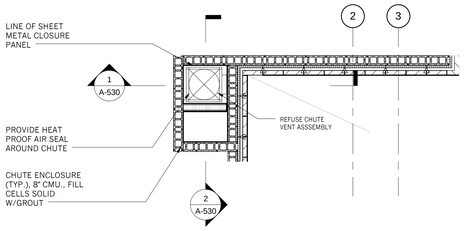
9 ELEV B - REFUSE CHUTE TYP ALL FLOORS
1/2" = 1'-0"



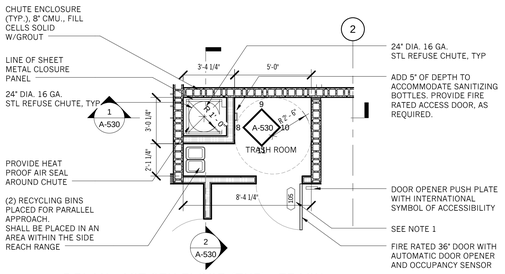
8 ELEV A - REFUSE CHUTE TYP ALL FLOORS
1/2" = 1'-0"



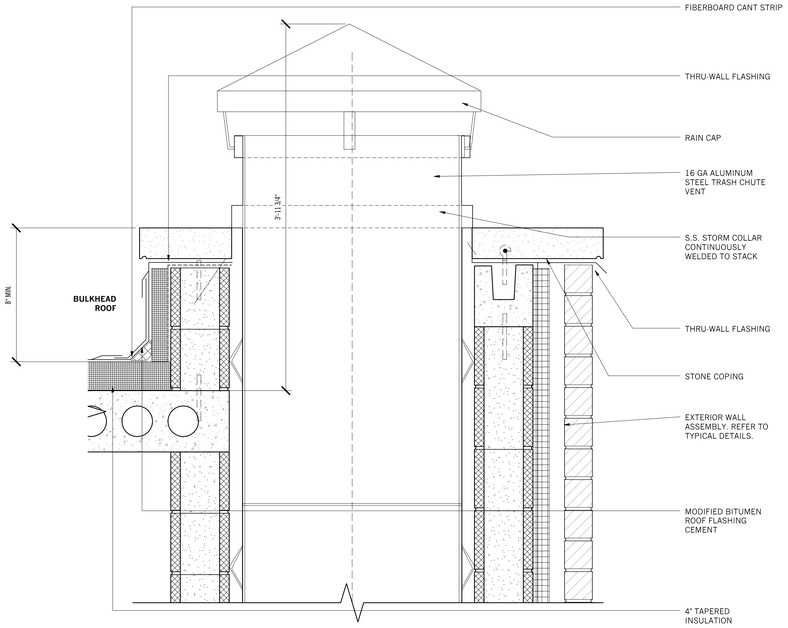
6 PLAN - RAIN CAP/VENT PLAN
1/4" = 1'-0"



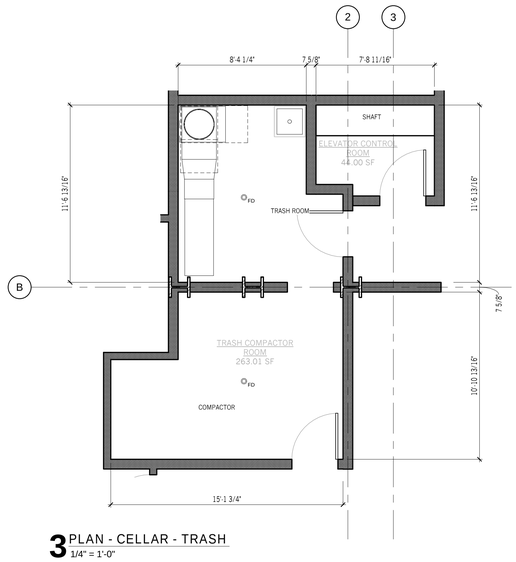
5 PLAN - ROOF - TRASH
1/4" = 1'-0"



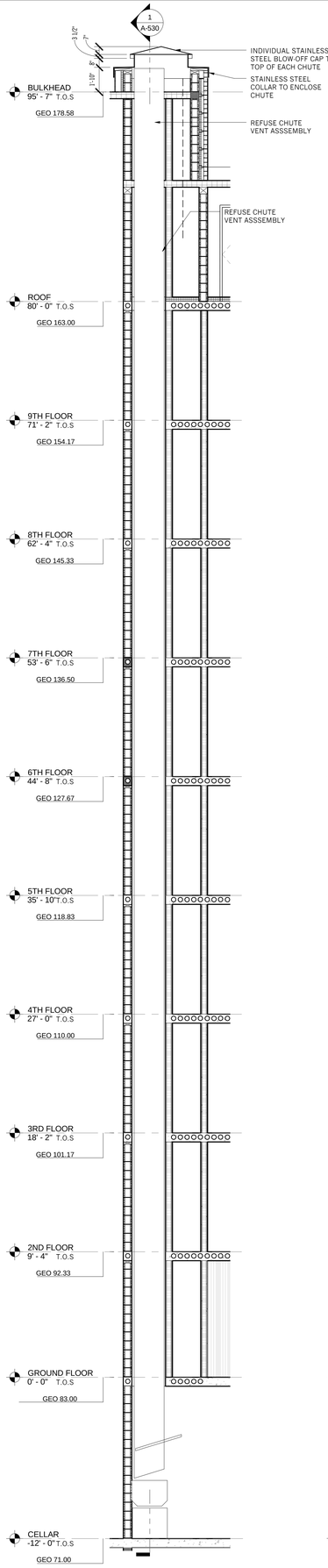
4 PLAN - 1ST-9TH FLOOR (TYP) - TRASH
1/4" = 1'-0"



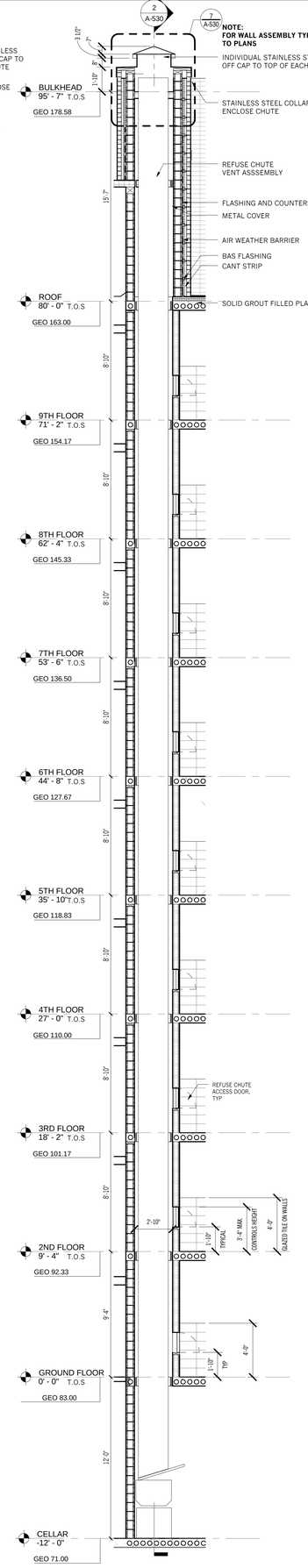
7 DETAIL SECTION - TRASH CHUTE
1 1/2" = 1'-0"



3 PLAN - CELLAR - TRASH
1/4" = 1'-0"



2 SECTION NS - TRASH CHUTE 2
1/4" = 1'-0"



1 SECTION E-W - TRASH CHUTE
1/4" = 1'-0"

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CLIENT HUDSON COMPANIES INCORPORATED
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STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.
MEP ENGINEER EP ENGINEERING
CODE CONSULTING DESIGN 2147
ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES
LANDSCAPE ABEL BAINNSON BUTZ, LLP

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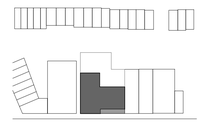
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

REFUSE CHUTE - PLANS & SECTIONS

REGISTERED ARCHITECT JONATHAN JOVA MARVEL No. 021482 STATE OF NEW YORK

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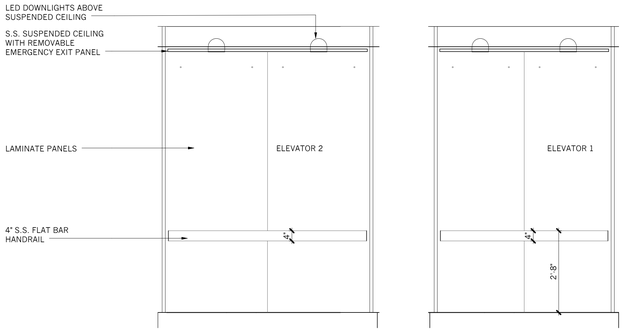
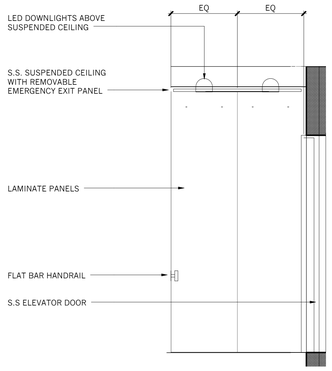
CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

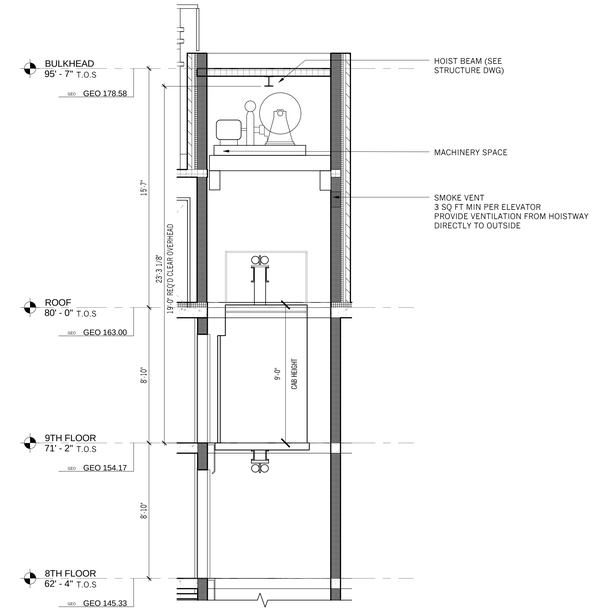
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

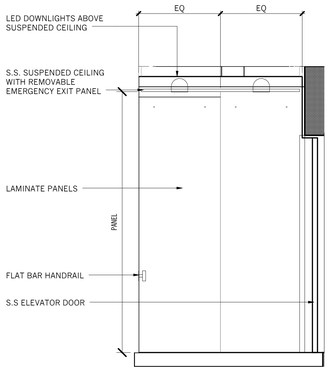


9 ELEVATION C - ELEVATOR 1 INTERIOR
1/2" = 1'-0"

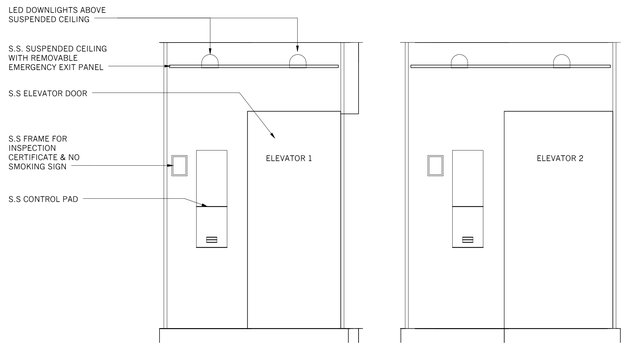


8 ELEVATION B - ELEVATOR 1 INTERIOR
1/2" = 1'-0"

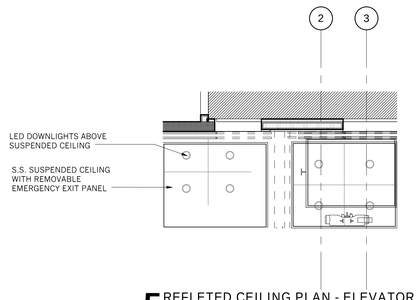




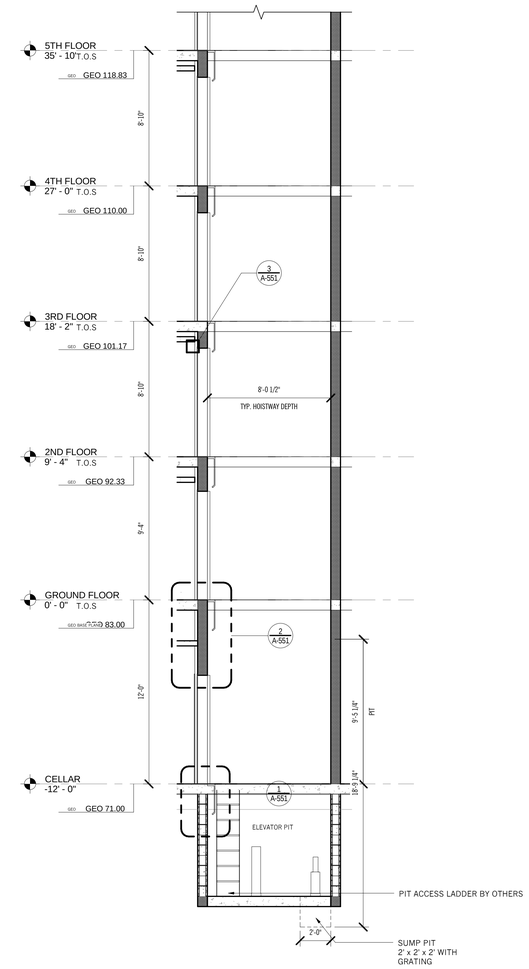
7 ELEVATION B - ELEVATOR 2 INTERIOR
1/2" = 1'-0"

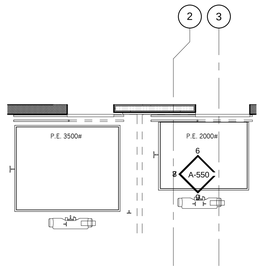


6 ELEVATION A - ELEVATOR 1 AND 2 INTERIOR
1/2" = 1'-0"

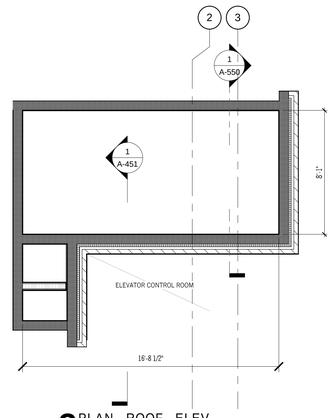


5 REFLETED CEILING PLAN - ELEVATOR 1 AND 2
1/4" = 1'-0"

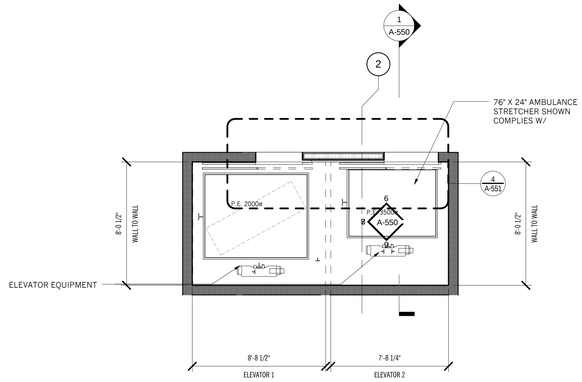




4 PLAN - FLOOR FINISH PLAN - ELEVATOR 1 AND 2
1/4" = 1'-0"



3 PLAN - ROOF - ELEV
1/4" = 1'-0"



2 PLAN - CELLAR-9TH - ELEVATOR 1 AND 2
1/4" = 1'-0"

1 SECTION - ELEVATOR
1/4" = 1'-0"

NOTE- PASSENGER ELEVATOR 1 ACCOMMODATES AN 76" LONG X 24" WIDE STRETCHER, AS PER NY CODE, WHICH WILL SERVE ALL FLOORS

DOB STAMP ZONE

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

ELEVATOR PLANS & SECTION

DRAWING #: A-550 00

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DOB ##### ZONE

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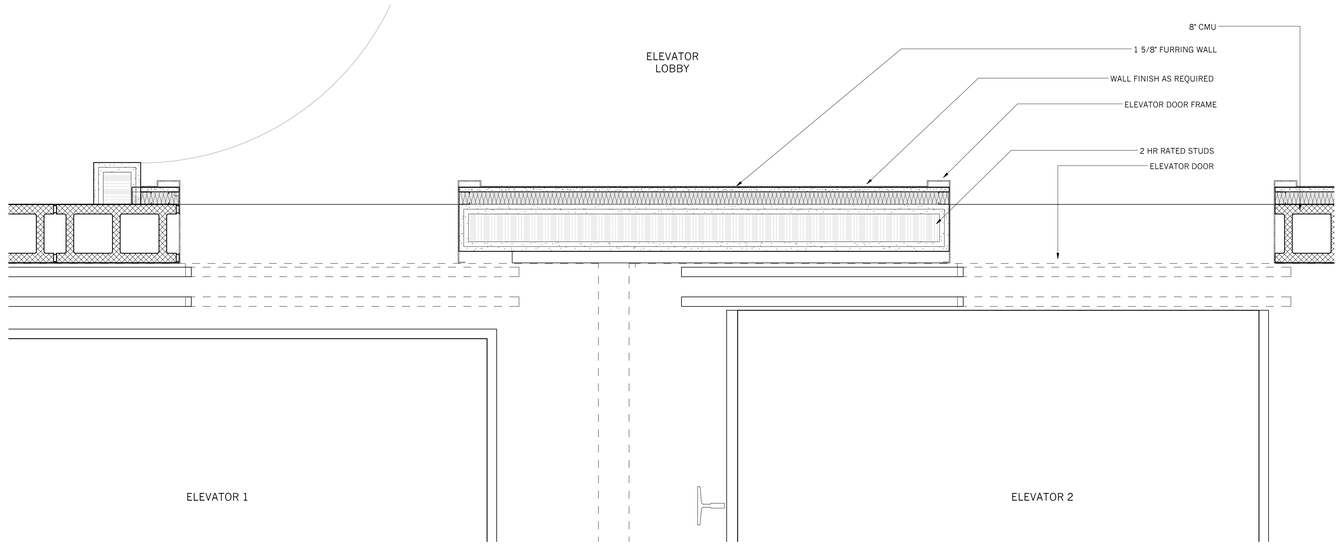
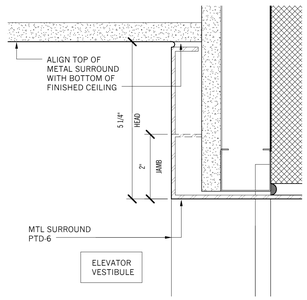
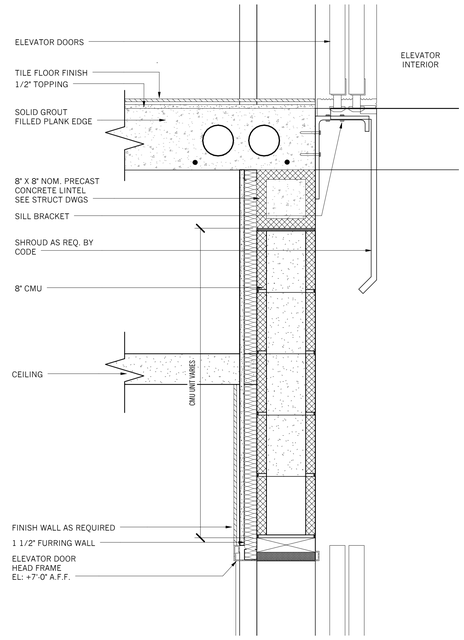


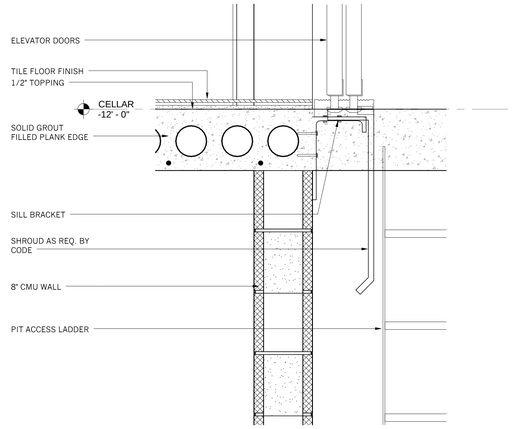
4 ELAVATOR PLAN - JAMB DETAIL
1 1/2" = 1'-0"



3 ELEVATOR DOOR DETAIL - TYPICAL FLOOR
6" = 1'-0"



2 SECTION - ELEVATOR DOOR DETAIL - CELLAR
1 1/2" = 1'-0"



1 SECTION - ELEVATOR DOOR DETAIL - CELLAR FLOOR
1 1/2" = 1'-0"

DOB STAMP ZONE

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145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 50% DD
2	07.31.2015	ISSUED FOR 50% DD
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5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

ELEVATOR PLANS & SECTION

REGISTERED ARCHITECT
JONATHAN JOVA MARVEL
NO. 021480
STATE OF NEW YORK

DRAWING #: A-551 00

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DOB ##### ZONE

13 **TYPICAL FLOOR FIRE EGRESS MAP**
*WALL MOUNTED · SIGN 1 (DTL / A-702 & A-703)

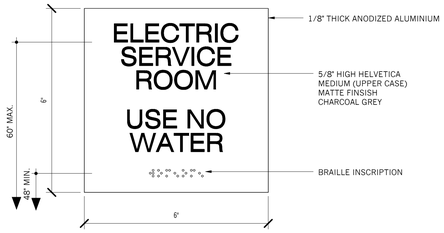
NOTE:
1. FIRE EGRESS SIGNS ARE SHOWN AT HALF THE ACTUAL SIZE
2. MOUNTING LOCATION IS 2" ABOVE ELEVATOR CALL BUTTON

12 **8TH & 9TH FLOOR FIRE EGRESS MAP**
*WALL MOUNTED · SIGN 1 (DTL / A-702 & A-703)

NOTE:
1. FIRE EGRESS SIGNS ARE SHOWN AT HALF THE ACTUAL SIZE
2. MOUNTING LOCATION IS 2" ABOVE ELEVATOR CALL BUTTON

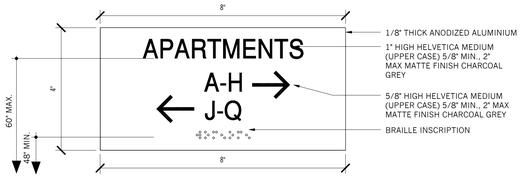
6 **STAIR EXIT SIGN (TACTILE)**
*WALL MOUNTED · SIGN 3 (DTL / A-702 & A-703)

5 **FLOOR IDENTITY SIGN (TACTILE)**
*WALL MOUNTED · SIGN 4 (DTL / A-702 & A-703)

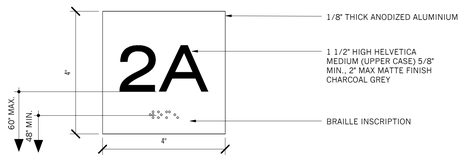


4 **ELECTRIC SERVICE ROOM SIGN (TACTILE)**
*WALL MOUNTED · SIGN 6 (DTL / A-702 & A-703)

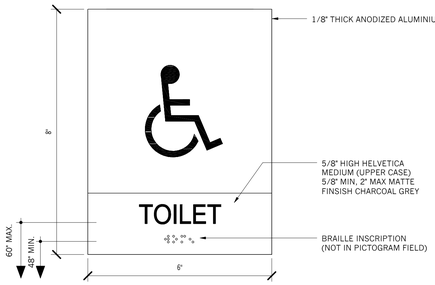
11 **TYPICAL SIGN (TACTILE)**
*WALL MOUNTED · (DTL / A-702 & A-703)



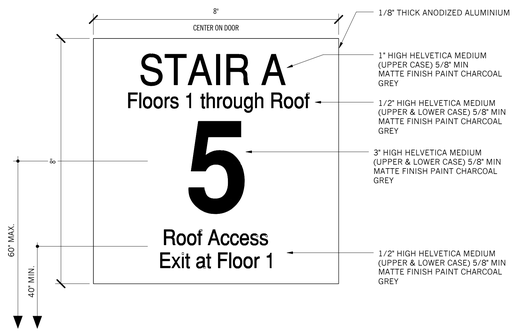
10 **SIGN WITH DIRECTIONAL ARROW (TACTILE)**
*WALL MOUNTED · SIGN 18 (DTL / A-702 & A-703)



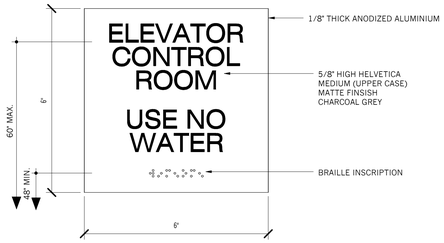
9 **APARTMENT UNIT NUMBER SIGN (TACTILE)**
*WALL MOUNTED · SIGN X (DTL / A-702 & A-703)



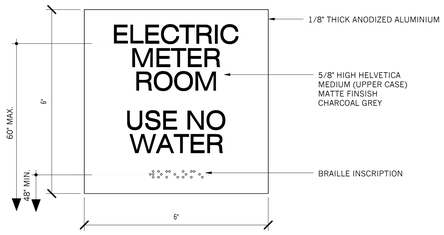
8 **PICTOGRAM SIGN (TACTILE)**
*WALL MOUNTED · SIGN 15 (DTL / A-702 & A-703)



7 **STAIR FLOOR NUMBER & IDENTITY SIGN (VISUAL)**
*DOOR MOUNTED · SIGN 2 (DTL / A-702 & A-703)

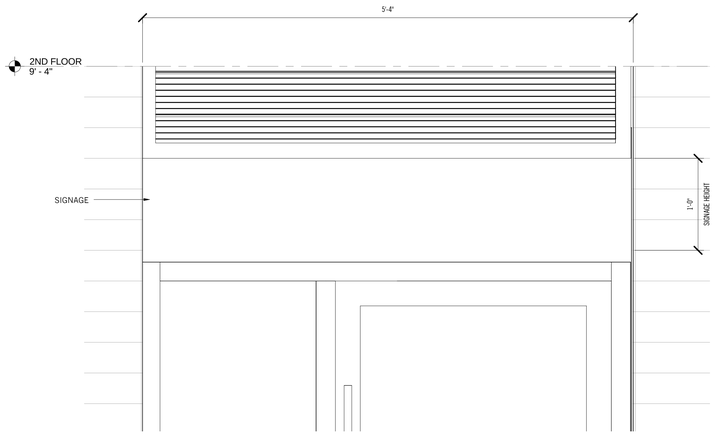


3 **ELEVATOR CONTROL ROOM SIGN (TACTILE)**
*WALL MOUNTED · SIGN 5 (DTL / A-702 & A-703)



2 **ELECTRIC METER SIGN (TACTILE)**
*WALL MOUNTED · SIGN 9 (DTL / A-702 & A-703)

GENERAL NOTES:
1. CONTRACTOR / SIGNMAKER TO VERIFY EXACT NUMBER OF EACH TYPE OF SIGN REQUIRED PRIOR TO FABRICATION
2. ALL SIGNS, EXCEPT EGRESS MAPS & STAIR IDENTIFICATION SIGNS TO HAVE RAISED LETTERING
3. ALL LETTERS AND NUMBERS MUST BE RAISED 1/32"
4. ALL SIGNS TO HAVE BRAILLE INSCRIPTION AS REQUIRED BY LAW. BRAILLE SHALL BE SEPARATED 3/8" MIN. FROM OTHER TACTILE CHARACTERS & 3/8" MIN. FROM BORDERS
5. ALL SIGNS TO BE 1/8" THICK
6. ALL FIRE EGRESS SIGNS TO BE 1/8" THICK CLEAR ACRYLIC PRINTED SUBSURFACE & BACK PAINTED.
7. ALL SIGNS SHALL BE ALONGSIDE THE DOOR AT THE LARCH SIDE U.O.N. SIGNS WITH TACTILE CHARACTERS ARE PRINTED ON THE PUSH SIDE OF DOORS WITH CLOSERS & WITHOUT HOLD-OPEN DEVICES
8. STAIR DOOR SIGNS SHALL BE PROVIDED ON BOTH SIDES OF EACH STAIR DOOR AS NOTED
9. SIGNS TO BE 1/8" THICK ANODIZED ALUMINIUM WITH CHARCOAL GREY APPLIQUE RAISED LETTERING
10. SUMBIT SAMPLE SIGN WITH SELECTED FINISHES FOR APPROVAL PRIOR TO FABRICATION



1 ENLARGED ENTRANCE - BUILDING SIGNAGE
1 1/2" = 1'-0"

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145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED
OWNER ATHENA HOUSING ASSOCIATES LLC.
STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.
MEP ENGINEER EP ENGINEERING
CODE CONSULTING DESIGN 2147
ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES
LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
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5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

SIGN DETAILS

REGISTERED ARCHITECT
JONATHAN JOHN MARVEL
No. 021460
STATE OF NEW YORK

DRAWING #: A-700.00

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DOB STAMP ZONE

DOB ##### ZONE

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GENERAL NOTES:
1. CONTRACTOR / SIGNMAKER TO VERIFY EXACT NUMBER OF EACH TYPE OF SIGN REQUIRED PRIOR TO FABRICATION
2. ALL SIGNS, EXCEPT EGRESS MAPS & STAIR IDENTIFICATION SIGNS TO HAVE RAISED LETTERING
3. ALL LETTERS AND NUMBERS MUST BE RAISED 1/32"
4. ALL SIGNS TO HAVE BRAILLE INSCRIPTION AS REQUIRED BY LAW. BRAILLE SHALL BE SEPARATED 3/8" MIN. FROM OTHER TACTILE CHARACTERS & 3/8" MIN. FROM BORDERS
5. ALL SIGNS TO BE 1/8" THICK
6. ALL FIRE EGRESS SIGNS TO BE 1/8" THICK CLEAR ACRYLIC PRINTED SUBSURFACE & BACK PAINTED.
7. ALL SIGNS SHALL BE ALONGSIDE THE DOOR AT THE LARCH SIDE U.O.N. SIGNS WITH TACTILE CHARACTERS ARE PRINTED ON THE PUSH SIDE OF DOORS WITH CLOSERS & WITHOUT HOLD-OPEN DEVICES
8. STAIR DOOR SIGNS SHALL BE PROVIDED ON BOTH SIDES OF EACH STAIR DOOR AS NOTED
9. SIGNS TO BE 1/8" THICK ANODIZED ALUMINIUM WITH CHARCOAL GREY APPLIQUE RAISED LETTERING
10. SUMBIT SAMPLE SIGN WITH SELECTED FINISHES FOR APPROVAL PRIOR TO FABRICATION

Marvel Architects
145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 50% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

SIGN DETAILS

DRAWING #: A-701 00

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DOB ##### ZONE

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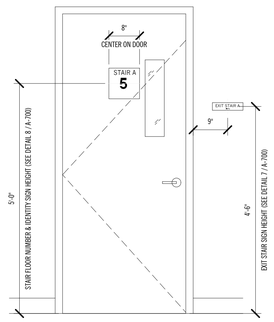
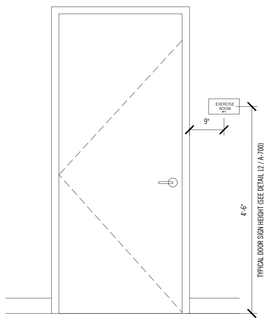
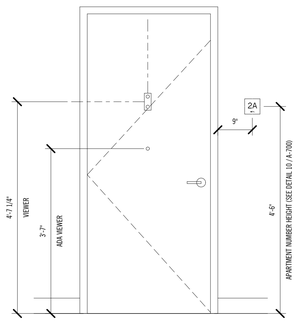


5 TYPICAL STAIR DOOR SIGN ELEVATION - CORRIDOR SIDE
SCALE 3/4" = 1'-0"



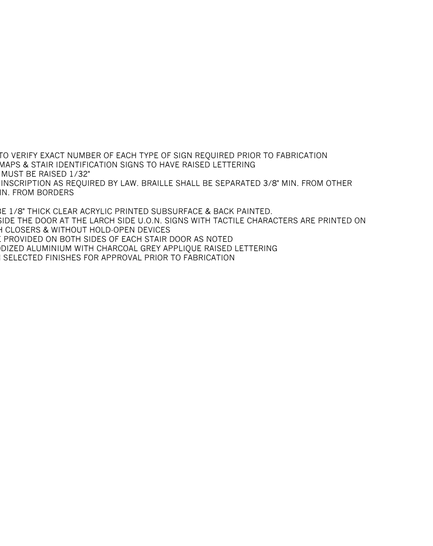
4 TYPICAL ROOM DOOR SIGN ELEVATION - CORRIDOR SIDE
SCALE 3/4" = 1'-0"



3 APARTM ENTRANCE DOOR SIGN ELEVATION - CORRIDOR SIDE
SCALE 3/4" = 1'-0"

2 GROUND FLOOR FIRE EGRESS MAP
*WALL MOUNTED - SIGN # (DTL / A-702)

NOTE:
1. FIRE EGRESS SIGNS ARE SHOWN AT HALF THE ACTUAL SIZE
2. MOUNTING LOCATION IS 2" ABOVE ELEVATOR CALL BUTTON



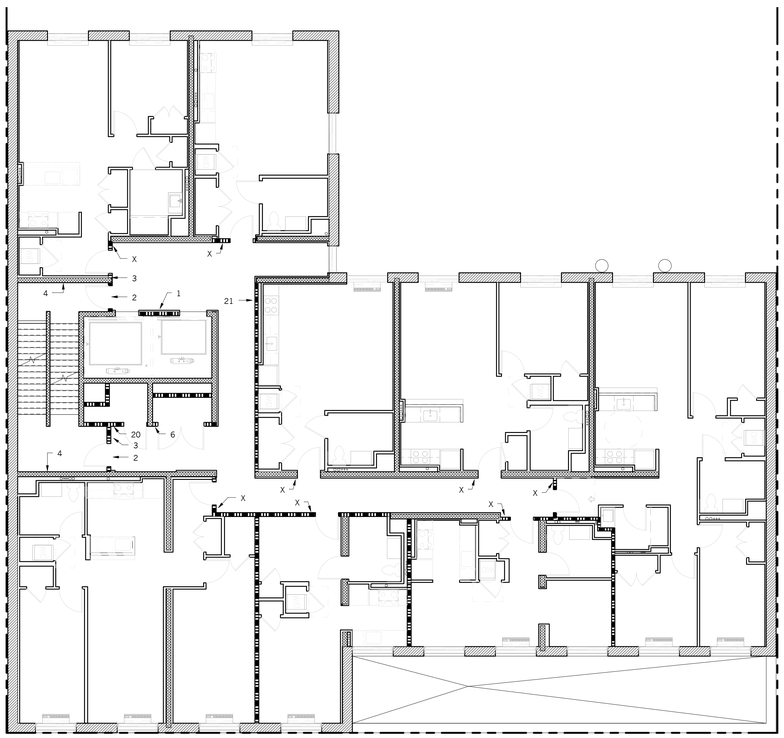
1 CELLAR FLOOR FIRE EGRESS MAP
*WALL MOUNTED - SIGN # (DTL / A-702)

NOTE:
1. FIRE EGRESS SIGNS ARE SHOWN AT HALF THE ACTUAL SIZE
2. MOUNTING LOCATION IS 2" ABOVE ELEVATOR CALL BUTTON

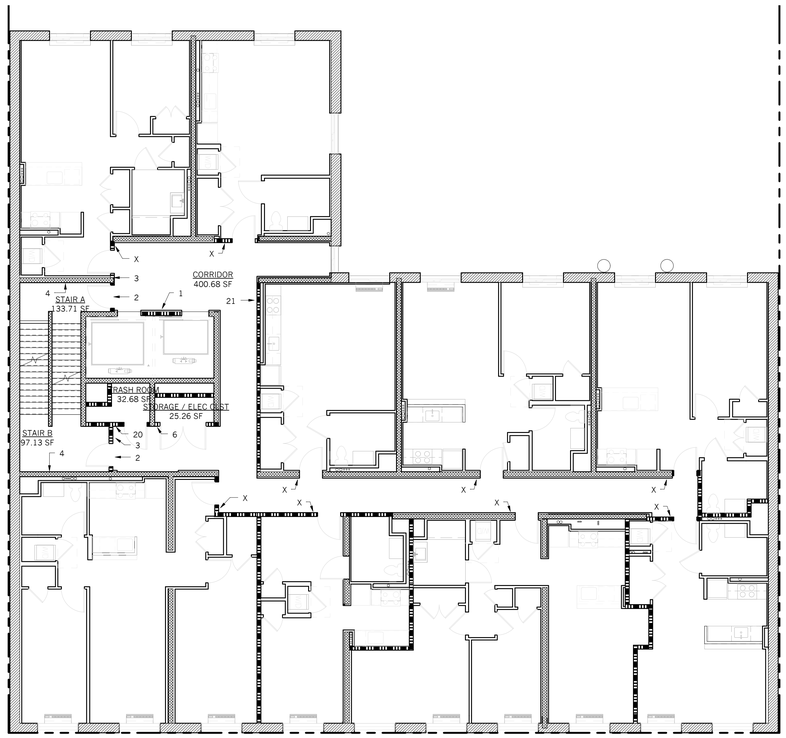
GENERAL NOTES:
1. SIGN MOUNTED ON WALL U.O.N
2. SIGN MOUNTED ON DOOR
3. FOR SIGN DETAILS, SEE A-700
4. FOR STAIR SIGNS & ELEVATIONS, SEE DETAILS 5 / A-701 , 6 & 7 / A-700
5. FOR FIRE EGRESS MAP @ CELLAR FLOOR, SEE DETAIL 1 / A-701
6. FOR FIRE EGRESS MAP @ GROUND FLOOR, SEE DETAIL 2 / A-701
7. FOR FIRE EGRESS MAP @ 2ND, 3RD, 4TH, 5TH, 6TH & 7TH FLOOR, SEE DETAIL 13 / A-700
8. FOR FIRE EGRSS MAP @ 8TH & 9TH FLOOR, SEE DETAIL 12 / A-700
9. FOR ELECTRIC SERVICE & ELECTRIC METER ROOM SIGN DETAILS, SEE DETAIL 2 & 4 / A-700
10. FOR TOILET SIGN DETAILS, SEE DETAIL 8 / A-700
11. FOR FLOOR IDENTITY SIGN, SEE DETAIL 5 / A-700
12. FOR APARTMENT NUMBER SIGN & ELEVATION, SEE DETAILS 3 / A-701, 9 / A-700
13. FOR SIGN WITH DIRECTIONAL ARROW, SEE DETAIL 10 / A-700

SIGN LEGEND

1	FIRE EGRESS MAP (SEE NOTE 5, 6, 7, AND 8)
2	STAIR IDENTITY (BOTH SIDES - SEE NOTES 2 & 4)
3	EXIT STAIR (SEE NOTE 3)
4	FLOOR IDENTITY (BOTH STAIRS - SEE NOTE 11)
5	ELEVATOR CONTROL ROOM
6	ELECTRIC SERVICE ROOM
7	TRASH COMPACTOR ROOM
8	BIKE STORAGE
9	ELECTRIC METER ROOM (SEE NOTE 9)
10	WATER PUMP
11	GAS
12	SEWEGE EJECTOR ROOM
13	BOILER
14	TENANT ACCESSORY FITNESS ROOM
15	TOILET (SEE NOTE 10)
16	TENANT LOUNGE ROOM
17	STORAGE
18	STAFF ROOM
19	SUPER'S OFFICE
20	TRASH ROOM
21	APARTMENT SIGN WITH DIRECTIONAL ARROW (SEE NOTE 13)
X	APARTMENT NUMBER (SEE NOTE 12)



2 7TH FLOOR SIGN LOCATION
1/8" = 1'-0"



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

DOB STAMP ZONE

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145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
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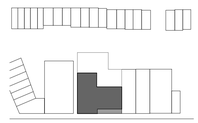
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

SIGN LOCATION PLANS

REGISTERED ARCHITECT
JONATHAN MARVEL
No. 031450
STATE OF NEW YORK

DRAWING #: A-702.00

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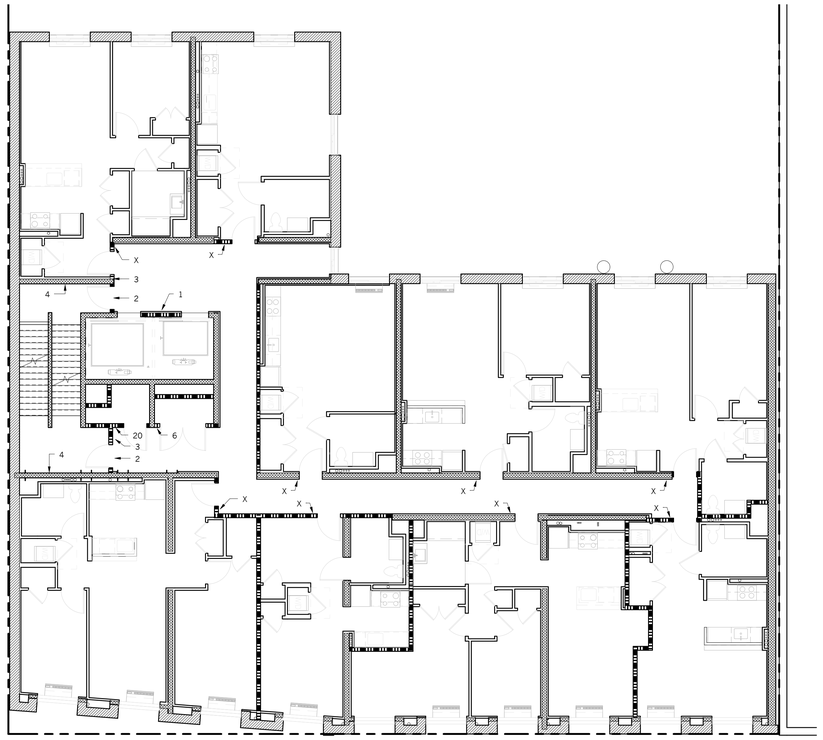
DOB ##### ZONE

1/29/2016 4:33:33 PM

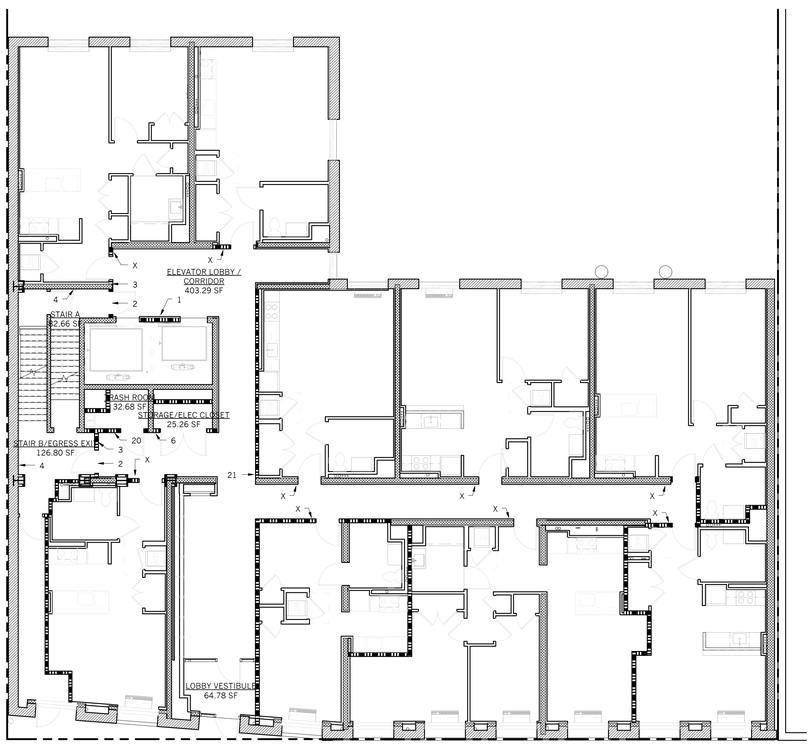
GENERAL NOTES:
1. SIGN MOUNTED ON WALL U.O.N
2. SIGN MOUNTED ON DOOR
3. FOR SIGN DETAILS, SEE A-700
4. FOR STAIR SIGNS & ELEVATIONS, SEE DETAILS 5 / A-701 , 6 & 7 / A-700
5. FOR FIRE EGRESS MAP @ CELLAR FLOOR, SEE DETAIL 1 / A-701
6. FOR FIRE EGRESS MAP @ GROUND FLOOR, SEE DETAIL 2 / A-701
7. FOR FIRE EGRESS MAP @ 2ND, 3RD, 4TH, 5TH, 6TH & 7TH FLOOR, SEE DETAIL 13 / A-700
8. FOR FIRE EGRSS MAP @ 8TH & 9TH FLOOR, SEE DETAIL 12 / A-700
9. FOR ELECTRIC SERVICE & ELECTRIC METER ROOM SIGN DETAILS, SEE DETAIL 2 & 4 / A-700
10. FOR TOILET SIGN DETAILS, SEE DETAIL 8 / A-700
11. FOR FLOOR IDENTITY SIGN, SEE DETAIL 5 / A-700
12. FOR APARTMENT NUMBER SIGN & ELEVATION, SEE DETAILS 3 / A-701, 9 / A-700
13. FOR SIGN WITH DIRECTIONAL ARROW, SEE DETAIL 10 / A-700

SIGN LEGEND

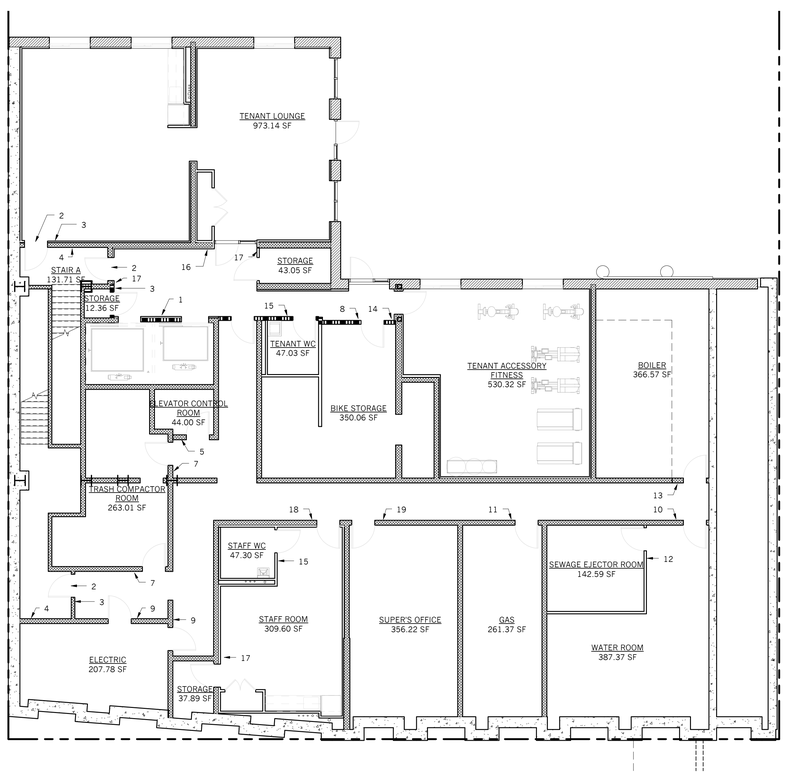
1	FIRE EGRESS MAP (SEE NOTE 5, 6, 7, AND 8)
2	STAIR IDENTITY (BOTH SIDES - SEE NOTES 2 & 4)
3	EXIT STAIR (SEE NOTE 3)
4	FLOOR IDENTITY (BOTH STAIRS - SEE NOTE 11)
5	ELEVATOR CONTROL ROOM
6	ELECTRIC SERVICE ROOM
7	TRASH COMPACTOR ROOM
8	BIKE STORAGE
9	ELECTRIC METER ROOM (SEE NOTE 9)
10	WATER PUMP
11	GAS
12	SEWEGE EJECTOR ROOM
13	BOILER
14	TENANT ACCESSORY FITNESS ROOM
15	TOILET (SEE NOTE 10)
16	TENANT LOUNGE ROOM
17	STORAGE
18	STAFF ROOM
19	SUPER'S OFFICE
20	TRASH ROOM
21	APARTMENT SIGN WITH DIRECTIONAL ARROW (SEE NOTE 13)
X	APARTMENT NUMBER (SEE NOTE 12)



3 2ND-3RD FLOOR SIGN LOCATION
1/8" = 1'-0"



2 GROUND FLOOR SIGN LOCATION
1/8" = 1'-0"



1 CELLAR SIGN LOCATION
1/8" = 1'-0"

DOB STAMP ZONE

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CLIENT **HUDSON COMPANIES INCORPORATED**
OWNER **ATHENA HOUSING ASSOCIATES LLC.**
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**
MEP ENGINEER **EP ENGINEERING**
CODE CONSULTING **DESIGN 2147**
ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 50% DD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
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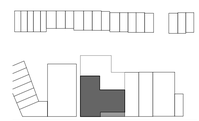
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

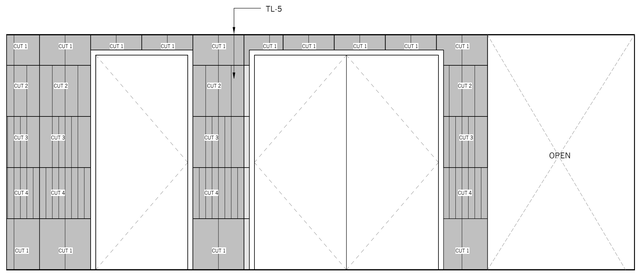
SIGN LOCATION PLANS

REGISTERED ARCHITECT JONATHAN JOSHUA MARVEL No. 021401 STATE OF NEW YORK

DRAWING #: A-703 00

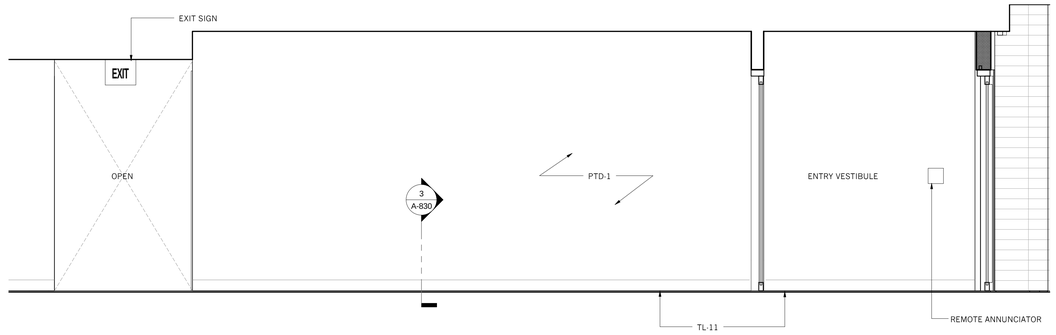
DOB ##### ZONE

1/29/2016 4:33:44 PM



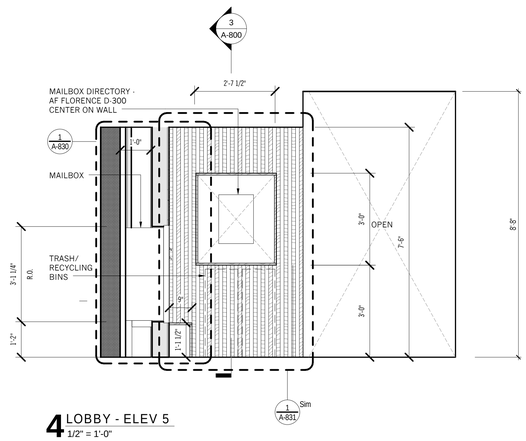
7 ELEV @ TRASH/STORAGE
1/2" = 1'-0"

PERSPECTIVE · LOBBY AND MAIL ROOM

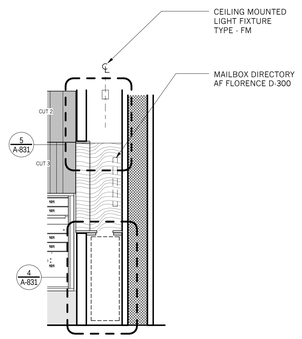


6 LOBBY - ELEV 4
1/2" = 1'-0"

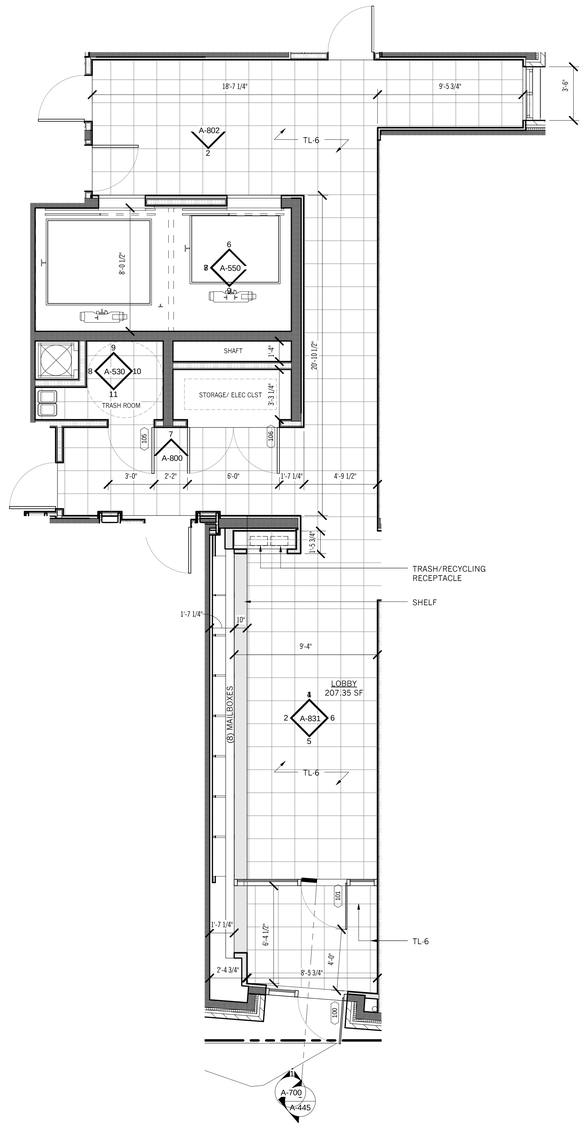
5 LOBBY-ELEV 3
1/2" = 1'-0"



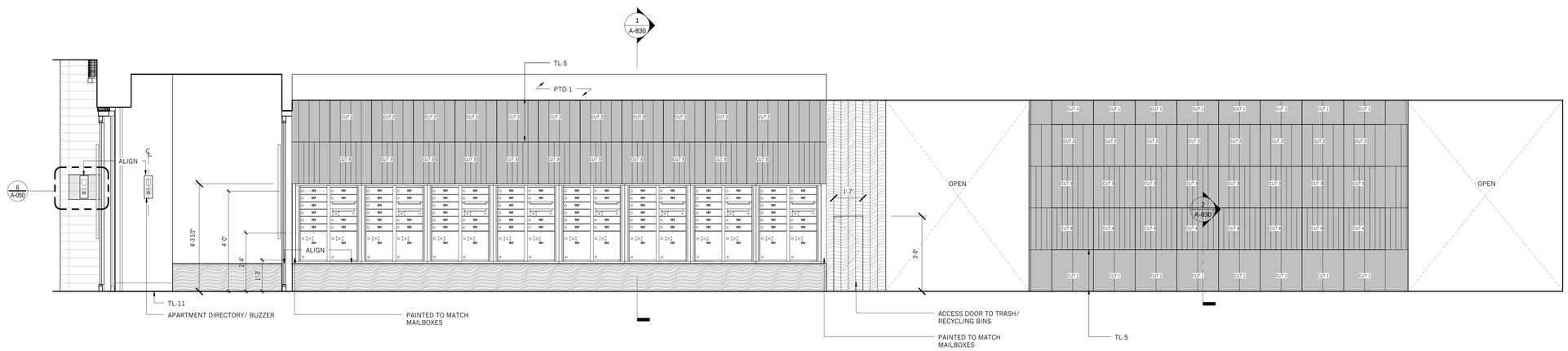
4 LOBBY - ELEV 5
1/2" = 1'-0"



3 LOBBY DETAIL SECTION
1/2" = 1'-0"



1 LOBBY AND MAIL ROOM - FIRST FLOOR PLAN
1/4" = 1'-0"



2 LOBBY-ELEV 2
1/2" = 1'-0"

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CLIENT **HUDSON COMPANIES INCORPORATED**

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STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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7	01.29.2016	ISSUED FOR 100% CD

100%CD **01.29.2016**

KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

INTERIOR ELEVATIONS - LOBBY

DRAWING #: A-800.00

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DOB ##### ZONE

1/29/2016 4:33:54 PM

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CLIENT **HUDSON COMPANIES INCORPORATED**

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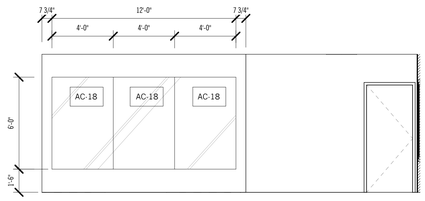
MEP ENGINEER **EP ENGINEERING**

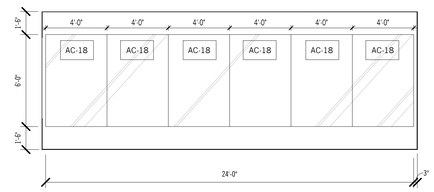
CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

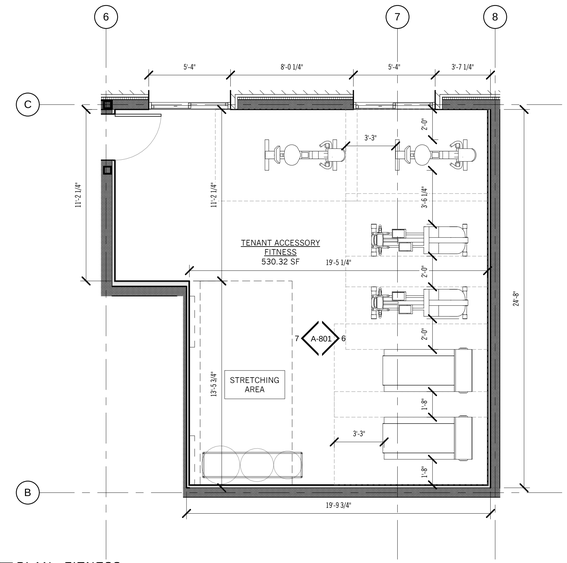
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**



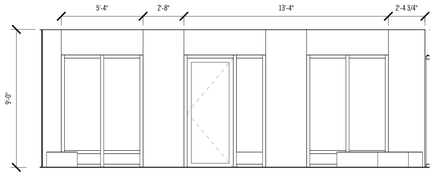
7 FITNESS - ELEV 2
1/4" = 1'-0"



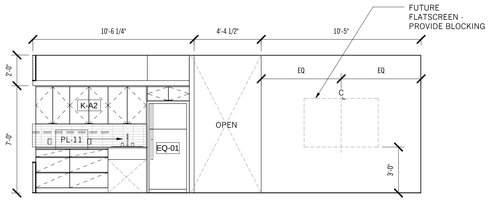
6 FITNESS - ELEV 1
1/4" = 1'-0"



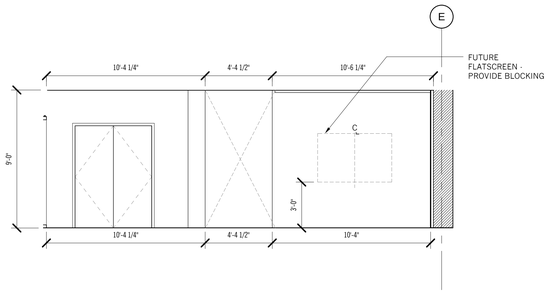
5 PLAN - FITNESS
1/4" = 1'-0"



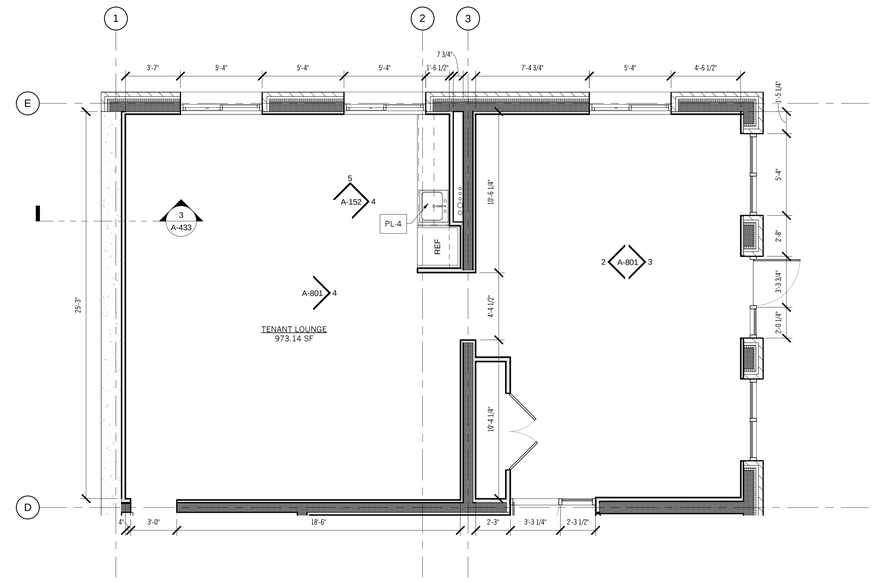
3 LOUNGE - ELEV 2
1/4" = 1'-0"



4 LOUNGE - ELEV 3
1/4" = 1'-0"



2 LOUNGE - ELEV 1
1/4" = 1'-0"



1 PLAN - TENANT ACCESSORY FITNESS
1/4" = 1'-0"

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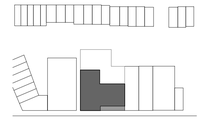
7	01.29.2016	ISSUED FOR 100% CD

100%CD **01.29.2016**



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

INTERIOR ELEVATIONS - FITNESS AND LOUNGE

DRAWING #: A-801.00

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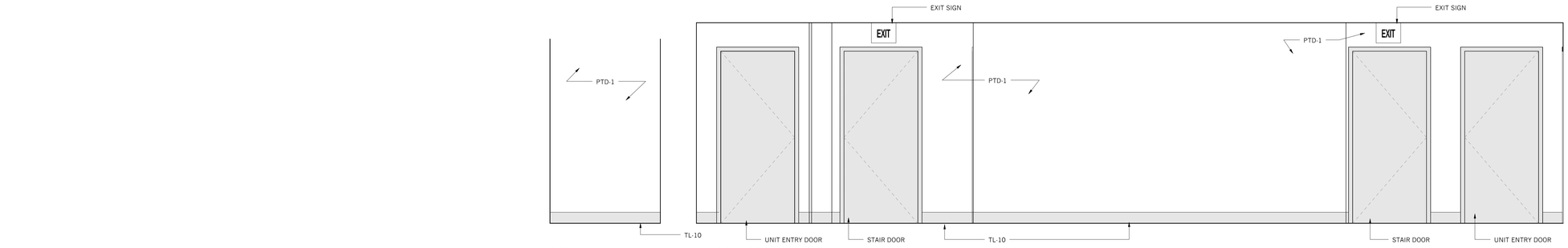
DOB ##### ZONE

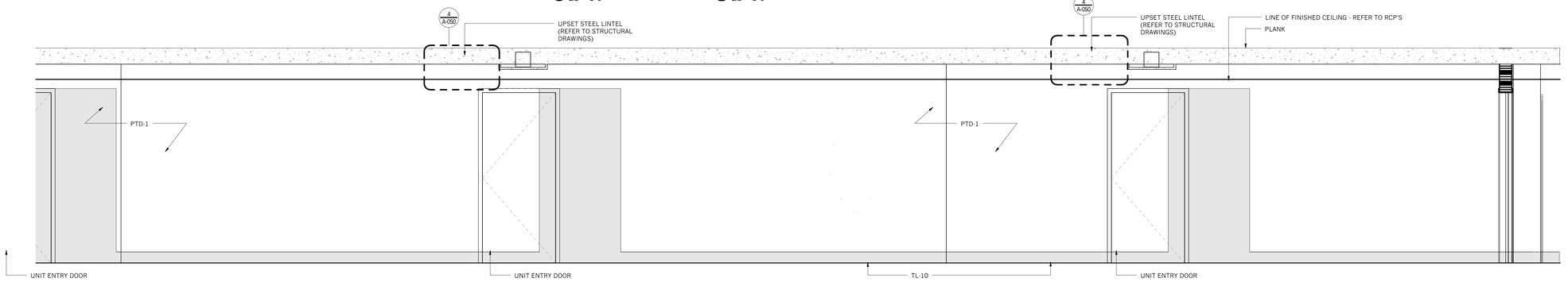
DOB STAMP ZONE

1/29/2016 4:33:59 PM

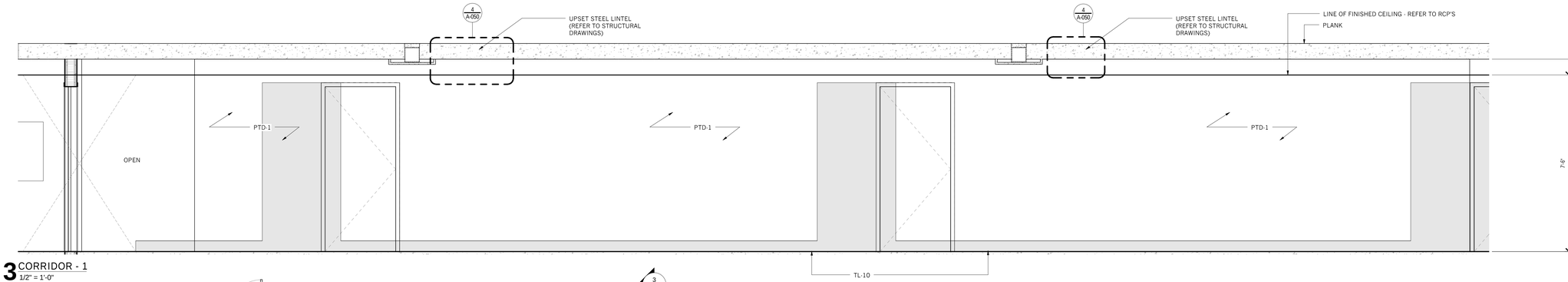


6 CORRIDOR - 2
1/2" = 1'-0"

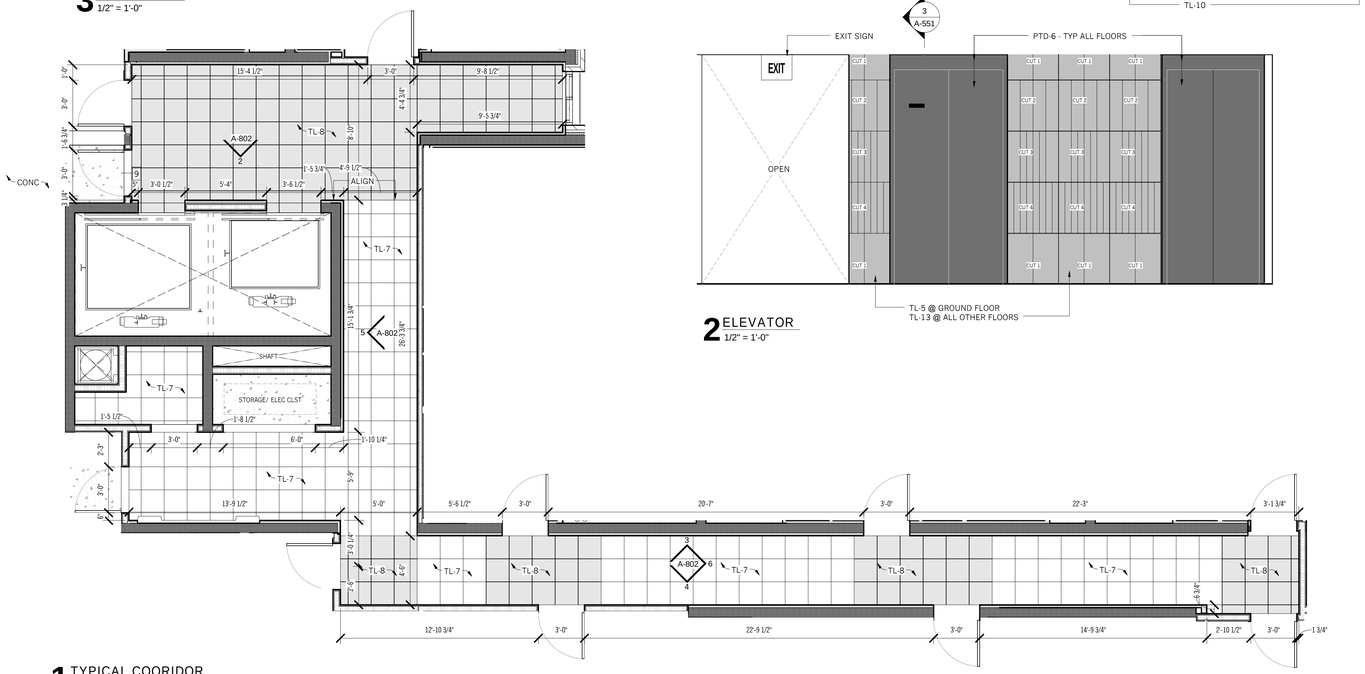
5 CORRIDOR - 4
1/2" = 1'-0"



4 CORRIDOR - 3
1/2" = 1'-0"

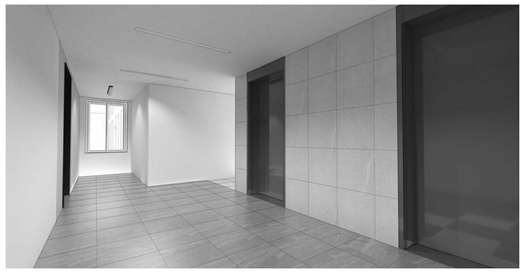


3 CORRIDOR - 1
1/2" = 1'-0"

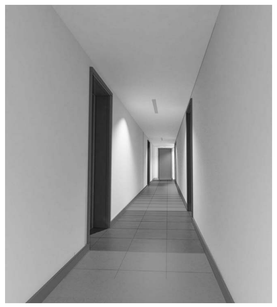


1 TYPICAL COORIDOR
1/4" = 1'-0"

2 ELEVATOR
1/2" = 1'-0"



RENDERING @ TYPICAL ELEVATOR VESTIBULE



RENDERING @ TYPICAL CORRIDOR

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CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

TYPICAL COORIDOR

REGISTERED ARCHITECT JONATHAN JOHN MARVEL No. 021601 STATE OF NEW YORK

DRAWING #: A-802 00

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DOB ##### ZONE

1/29/2016 4:34:09 PM

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CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

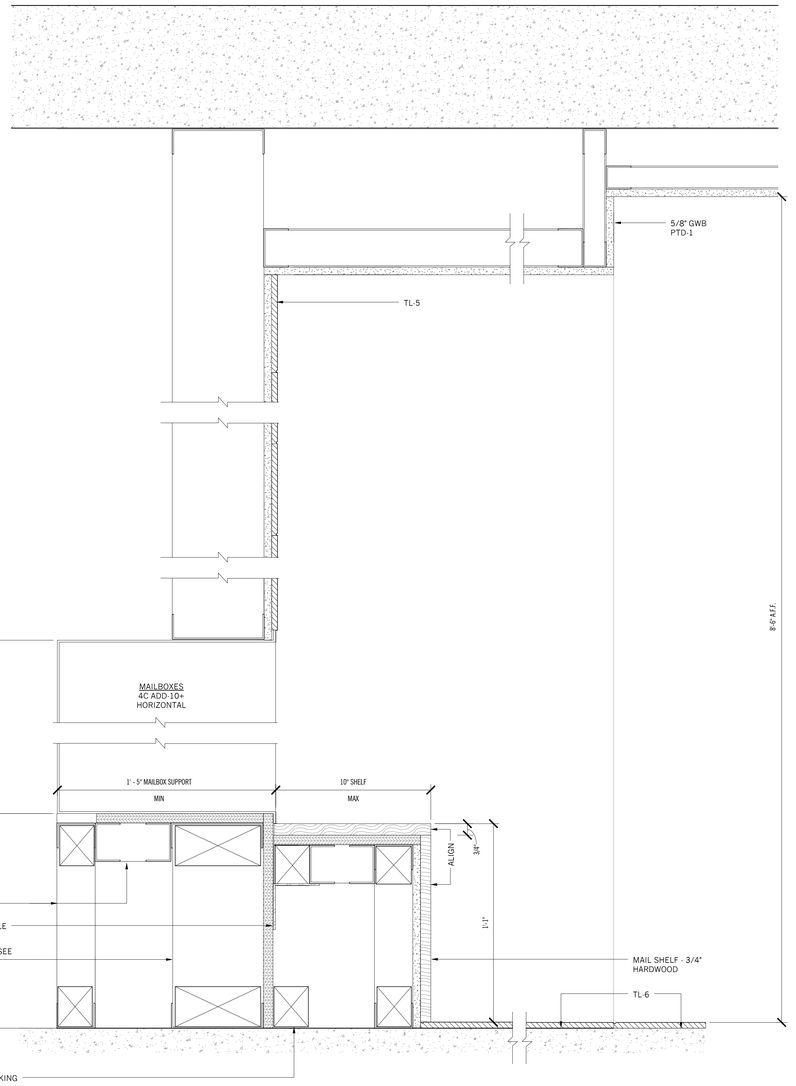
STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

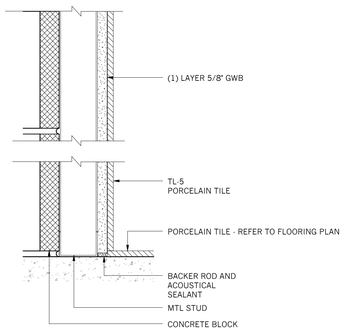
CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

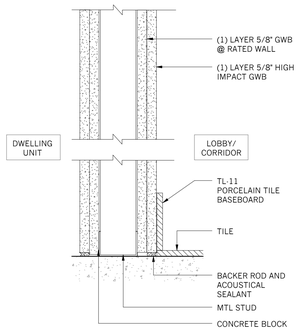
LANDSCAPE **ABEL BAINNSON BUTZ, LLP**



1 SECTION @ MAILBOX
3" = 1'-0"



2 LOBBY BASE DETAILS @ BLOCK WALL
3" = 1'-0"



3 LOBBY BASE DETAILS @ RATED WALL
3" = 1'-0"

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
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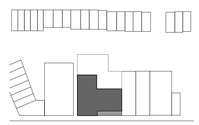
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

LOBBY DETAILS

DRAWING #: A-830.00

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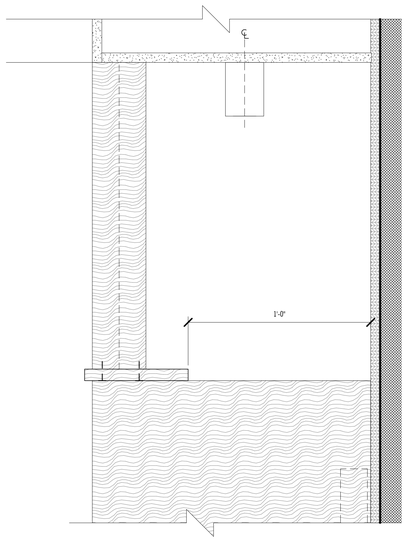
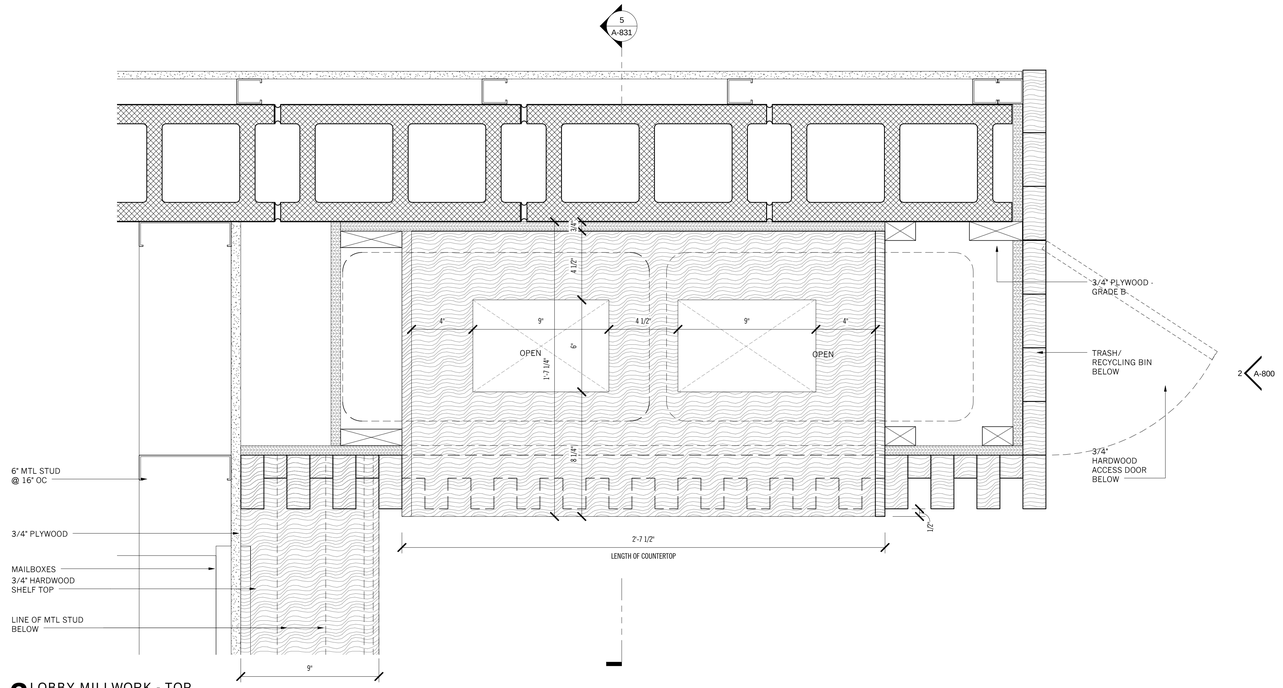
DOB ##### ZONE

DOB STAMP ZONE

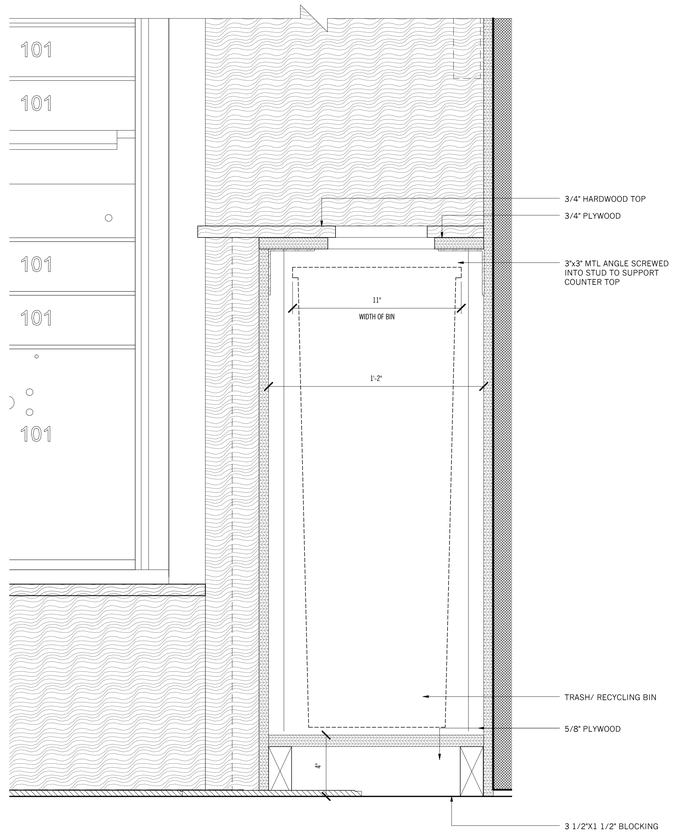
1/29/2016 4:34:13 PM



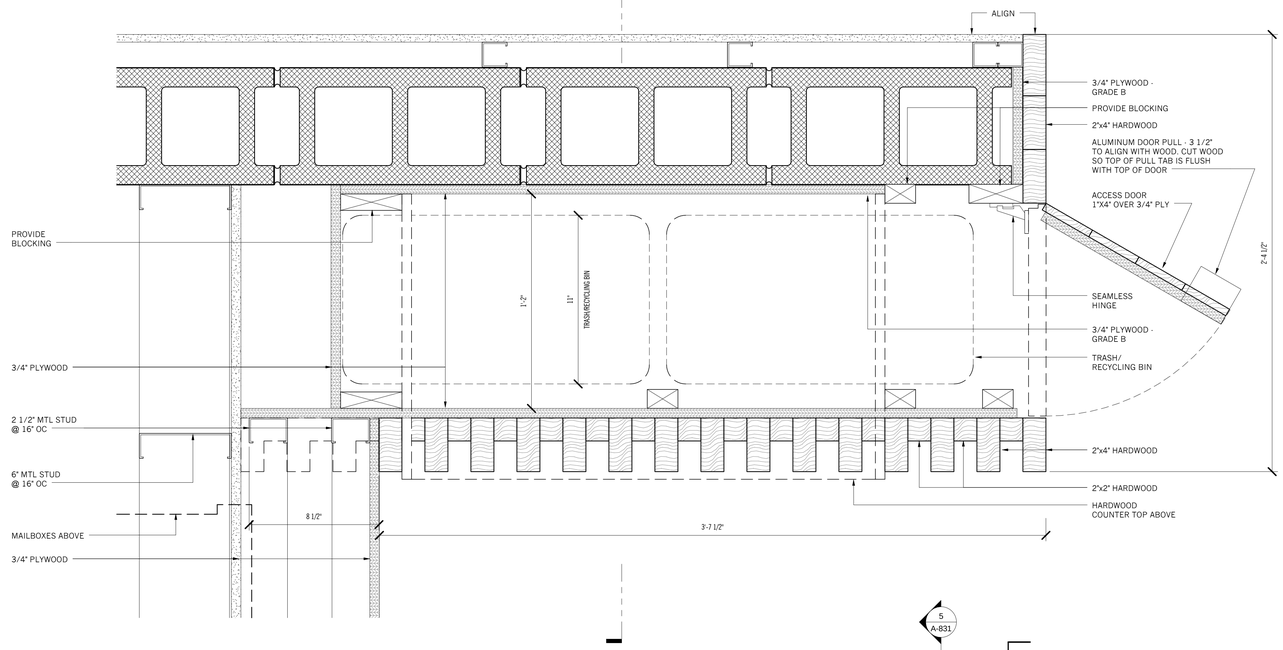
5 LOBBY DETAIL SECTION @ OPENING
3" = 1'-0"



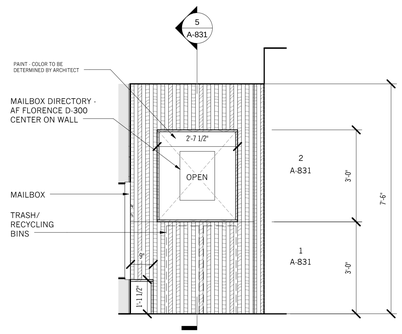
3 LOBBY MILLWORK - TOP
3" = 1'-0"



4 LOBBY DETAIL SECTION @ COUNTERTOP/ BASE
3" = 1'-0"



2 LOBBY MILLWORK - BASE
3" = 1'-0"



1 LOBBY -WOOD WALL
1/2" = 1'-0"

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STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

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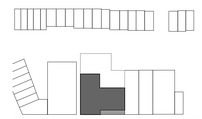
100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

LOBBY DETAILS

DRAWING #: A-831.00

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DOB ##### ZONE

DOB STAMP ZONE

1/29/2016 4:34:21 PM

MATERIALS AND LAYOUT LEGEND

- PL — PROPERTY LINE
- CHAIN LINK FENCE ON CONCRETE CURB
- SAFETY SURFACE
- PAVERS
- TABLE AND CHAIRS
- BENCH
- TRASH RECEPTACLE
- WHOLE/ HALF RUBBER CLIMBING SPHERES
- LIGHT FIXTURES
- EX DRAIN — EXISTING AREA DRAIN
- AD — PROPOSED AREA DRAIN
- PD — PROPOSED PLANTER DRAIN
- PROPOSED TREE PLANTING
- CENTERLINE
- X / XX — DETAIL No. / DETAIL SHEET No.

GENERAL NOTES

1. REFER TO THE TOPOGRAPHIC SURVEY FOR EXISTING UTILITIES AND ELEVATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ANY UTILITY LINES AND PROTECT THEM.
2. ALL BASE INFORMATION TAKEN FROM ARCHITECTURAL DRAWINGS PROVIDED BY MARVEL ARCHITECTS.
3. FOR DRAINAGE STRUCTURES, PLUMBING FIXTURES, AND MECHANICAL CONNECTIONS SEE ENGINEERING DRAWINGS.
4. FOR NOTES, DETAILS, AND HOOK-UP REGARDING ELECTRICAL ITEMS, SEE ELECTRICAL DRAWINGS.
5. SEE STRUCTURAL DRAWINGS FOR INFORMATION ON ALL STRUCTURAL ITEMS.
6. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND FAMILIARIZE THEMSELVES WITH THE SITE PRIOR TO COMMENCEMENT OF WORK. IF ACTUAL FIELD CONDITIONS VARY FROM LAYOUT AND DIMENSIONS AS SHOWN ON THE PLANS, THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH EXISTING FIELD CONDITIONS. NOTIFY THE OWNERS REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES PRIOR TO CONTINUING WORK.
7. IT IS ANTICIPATED THAT VARIOUS WORK FOR THIS CONTRACT SHALL BE PERFORMED SIMULTANEOUSLY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK BETWEEN SUB-CONTRACTORS AND UTILITY COMPANIES TO ENSURE COMPLETION OF THIS WORK IN A TIMELY AND WORKMAN LIKE MANNER.
8. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS.
9. THE CONTRACTOR SHALL REPLACE ANY BROKEN OR DAMAGED SITE FEATURES, SUCH AS EXISTING CURB, SIDEWALK, FENCING, ROADWAY, ETC., CAUSED BY THE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
10. THE CONTRACTOR SHALL SECURE THE WORK AREA WITH APPROPRIATE BARRIERS OR FENCING AND MAINTAIN A SAFE AND SECURE CONSTRUCTION SITE.
11. FOR ALL WORK AT STREET SIDEWALK AND CURBS, SEE THE APPROVED BUILDERS PAVEMENT PLAN.

LAYOUT NOTES

1. ALL BASE INFORMATION PROVIDED FROM ORIGINAL ARCHITECTURAL DRAWINGS BY MARVEL ARCHITECTS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADE ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
3. CUT PAVERS AROUND STRUCTURES AND AT WALLS WHERE REQUIRED AND AS SHOWN ON LAYOUT PLAN. FIELD CONDITION MAY REQUIRE ADJUSTMENTS TO PAVER LAYOUT AND/OR ADDITIONAL ROWS OF CUT PAVERS IN ORDER TO AVOID SMALL PAVER SLIVERS ALONG WALLS OR OTHER EDGES. CUT PAVERS SHALL NOT BE LESS THAN 8" ON ANY FACE DIMENSION. WHEN A CUT WOULD MAKE A PAVER LESS THAN 8" IN ANY DIMENSION, AN OVERSIZED PAVER SHOULD BE USED AND SCORED TO CREATE A SUPERFICIAL JOINT WHERE THE JOINT WOULD HAVE OCCURRED IN THE PAVING PATTERN.

MATERIALS SCHEDULE

SYMBOL	ITEM	COLOR	FINISH	DIMENSION	MANUFACTURER
	CONCRETE PAVERS	60% NATURAL 40% LIMESTONE GRAY *RANDOM PATTERN	TUDOR	24" X 24" X 2"	HANOVER ARCHITECTURAL PRODUCTS (717) 637-0500 WWW.HANOVERPAVERS.COM
	SAFETY SURFACE	40% GREY 30% TAN 30% SHAMROCK *RANDOM PATTERN	TILES	24" X 24" X 8'-0" FALL HEIGHT	EZ FALL SAFETY SURFACE (800) 453-7526 WWW.MITCHELLRUBBER.COM

FURNITURE SCHEDULE

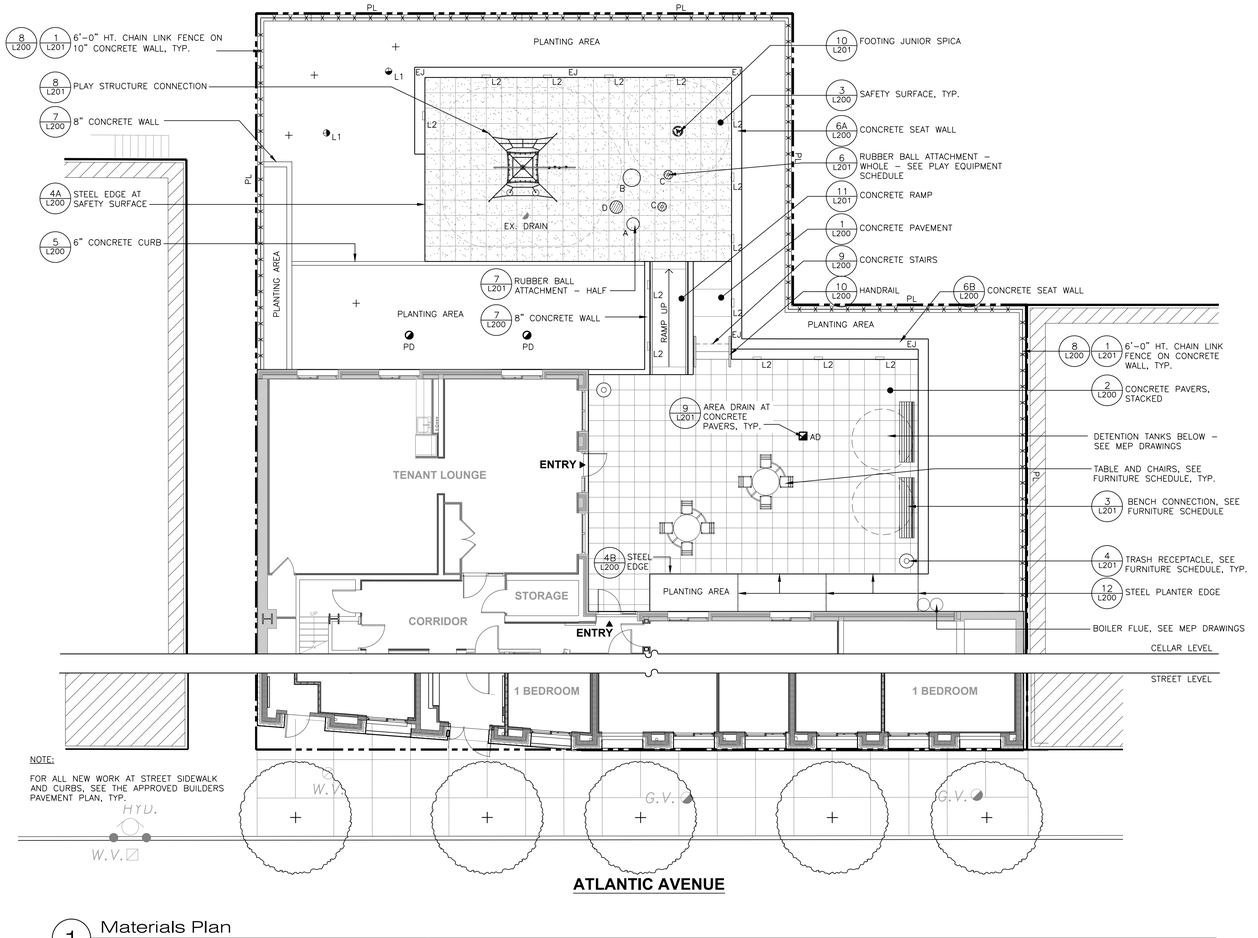
SYMBOL	QTY.	ITEM	COLOR/FINISH	MANUFACTURER
	2	MINGLE TABLE WITHOUT UMBRELLA HOLE, BACKED 4 SEATS, SURFACE MOUNTED	TITANIUM POWDERCOAT	LANDSCAPE FORMS INC. 269.337.1349 WWW.LANDSCAPEFORMS.COM
	2	MULTIPLICITY BACKED BENCH, STRAIGHT, NO ARMS	JARRAH NO FINISH WITH ANODIZED ALUMINUM LEGS	
	2	30 GAL. PARC VUE TRASH RECEPTACLE, TOP-OPENING, WITH URN-SHAPED LINER	TITANIUM POWDERCOAT	

LIGHTING SCHEDULE

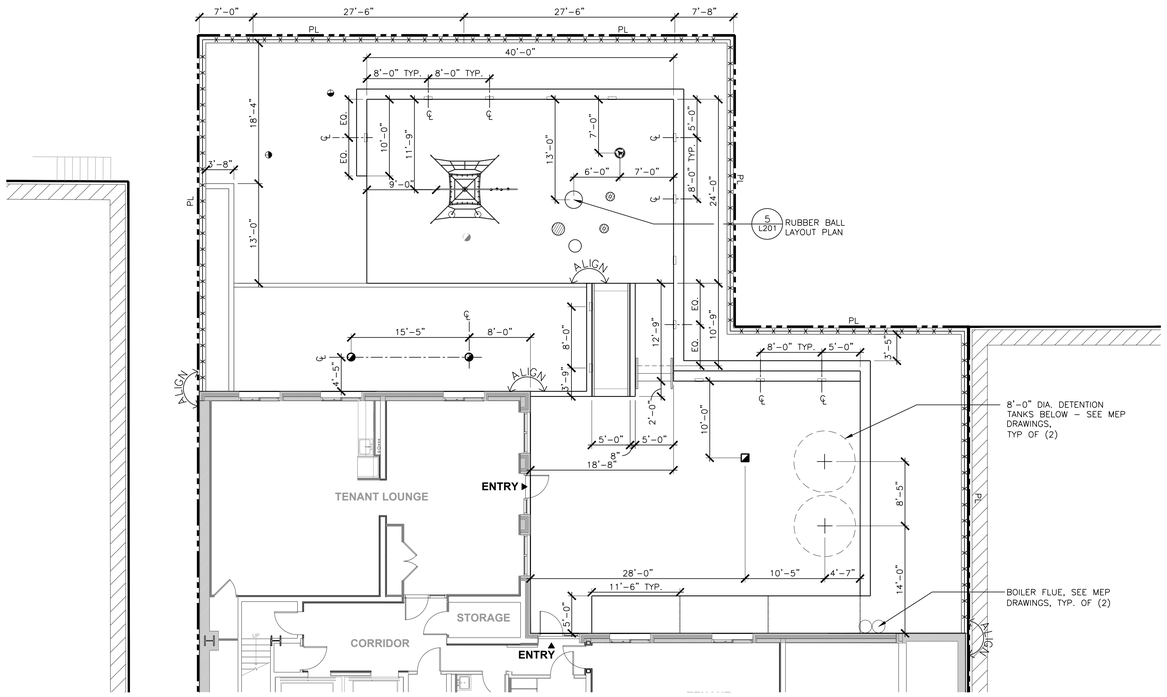
SYMBOL	QTY.	ITEM	MODEL NO.	COLOR	MANUFACTURER
L1	2	FLOODLIGHT FIXTURE WITH GROUND SPIKE A50341	CATE 1 UCE-50582-WHITE-20W-W-W30-120V-05	05 - MATTE SILVER RAL 9006	LIGMAN LED LIGHTING 646.320.9616 WWW.LIGMANLIGHTINGUSA.COM
L2	14	RECESSED SEAT WALL LIGHT	ULE-40721-WHITE-10W-W30-120V-05		

PLAY EQUIPMENT SCHEDULE

SYMBOL	QTY.	ITEM	MODEL NO.	MANUFACTURER
	1	FREESTANDING PLAY UNIT AGES: 2-5 YRS.	JUNIOR SPICA PRODUCT#: ELE400158 COLOR: YELLOW	KOMPAN PLAY EQUIPMENT (508) 244-9729 WWW.KOMPAN.US
PLAY STRUCTURE	1	FREESTANDING PLAY UNIT AGES: 5-12 YRS.	SPIDA PRODUCT#: COR20100	
		HALF BALL	EUROFLEX HALF BALL EPDM WITH GROUND ANCHOR (06312100)	GORIC, P.O. BOX 410205, CAMBRIDGE, MA. 02141 PH 617.499.3393, WWW.GORIC.COM
A B	1 1	20" DIA. 27" DIA.	DIA. 500 MM, COLOR: BLUE DIA. 695 MM, COLOR: BLUE	
		WHOLE BALL	EUROFLEX WHOLE BALL EPDM WITH GROUND ANCHOR (06312100)	
C D	2 1	13" DIA. 20" DIA.	DIA. 345 MM, COLOR: GREEN DIA. 500 MM, COLOR: GREY	



1 Materials Plan
Scale: 1/8"=1'-0"



2 Layout Plan
Scale: 1/8"=1'-0"

0 2' 4' 8' 16'

DOB STAMP ZONE

145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED
OWNER ATHENA HOUSING ASSOCIATES LLC.
STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.
MEP ENGINEER EP ENGINEERING
CODE CONSULTING DESIGN 2147
ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES
LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
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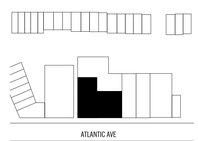
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

Materials & Layout Plan

DRAWING #: L-100

____ of ____

DOB 320909727

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GRADING AND PLANTING LEGEND

PL	PROPERTY LINE
	CHAIN LINK FENCE ON CONCRETE CURB
FFE	FINISH FLOOR ELEVATION
+(71.78)	EXISTING SPOT ELEVATION
+71.78	PROPOSED SPOT ELEVATION
+TW XX.XX BW XX.XX	TOP OF WALL BOTTOM OF WALL
+TR XX.XX BR XX.XX	TOP OF RAMP BOTTOM OF RAMP
EX DRAIN	EXISTING AREA DRAIN
AD	PROPOSED AREA DRAIN
PD	PROPOSED PLANTING DRAIN
	ORNAMENTAL TREE
	SHRUB MASSING
	GROUNDCOVER PLANTING

GRADING NOTES

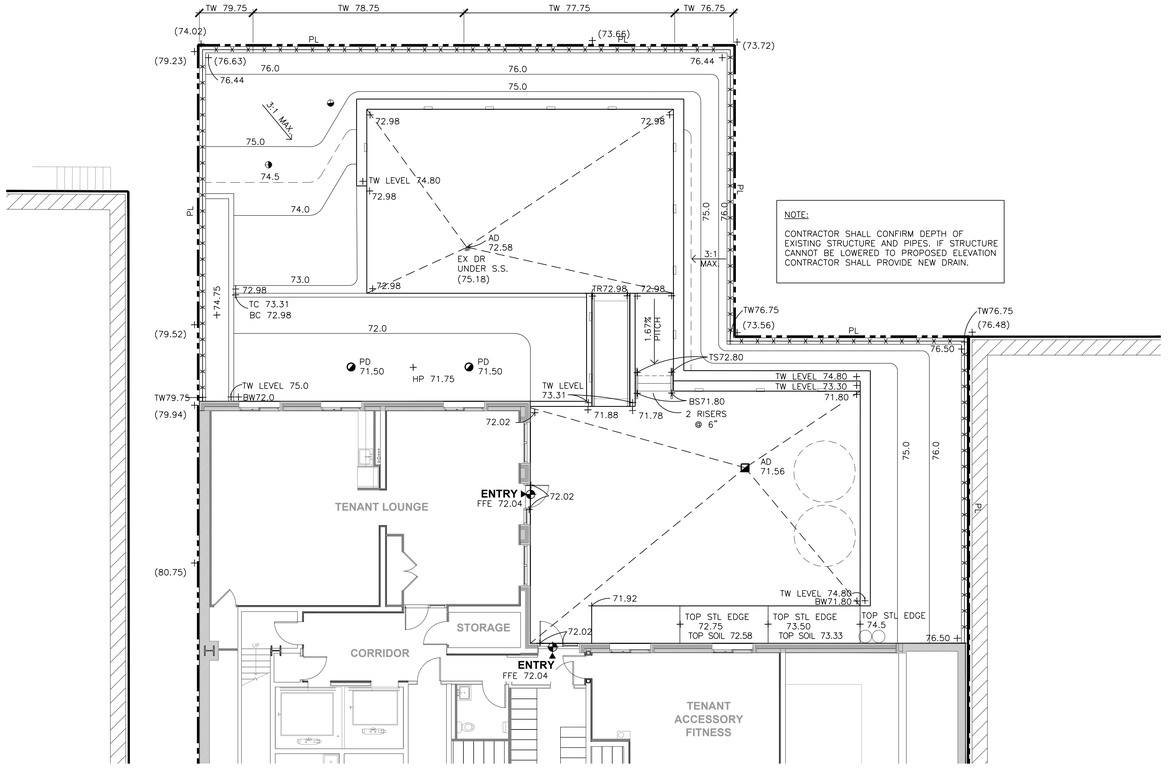
1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A 100% FULLY OPERATIONAL SITE DRAINAGE SYSTEM THAT CONDUCTS AND DISPOSES OF ALL STORM WATER RUNOFF.
2. IN ALL CASES, PAVEMENT SHALL BE PITCHED TO DRAINS TO PREVENET PUDDLING AND PONDING. THE CONTRACTOR SHALL PERFORM A DRAINAGE TEST OF ALL PAVEMENT TO INSURE POSITIVE DRAINAGE.
3. ENSURE THAT TRUE LOW POINT IS AT LOCATION OF DRAINAGE STRUCTURE.
4. THE CONTRACTOR SHALL PROVIDE TOPSOIL TO ACHIEVE FINISHED GRADES IN ALL PLANTED AREAS.
5. REFER TO THE TOPOGRAPHIC SURVEY FOR EXISTING UTILITIES AND ELEVATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ANY UTILITY LINES AND PROTECT THEM.
6. ALL NEW WORK SHALL MEET ADJACENT WORK FLUSH WITH SMOOTH TRANSITIONS AND NO TRIPPING HAZARDS.
7. FOR ELEVATIONS OF NEW STREET SIDEWALK AND CURBS, SEE THE BUILDERS PAVEMENT PLAN.

PLANTING NOTES

1. ALL PLANT MATERIAL TO BE VIGOROUS, FREE OF INJURY OR DEFECTS. ALL PLANT MATERIAL TO BE TRUE REPRESENTATIVES FOR THEIR SPECIES.
2. ALL B&B MATERIAL IS TO HAVE BALL/PLANT SIZE RELATIONSHIP AS SPECIFIED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
3. ALL SHRUB BEDS, UNLESS OTHERWISE NOTED, SHALL BE MULCHED WITH 2" SHREDDED HARDWOOD BARK.
4. TOPSOIL DEPTH REQUIREMENTS (UNLESS OTHERWISE DETAILED):
   GROUNDCOVER – 9" MIN.
   SHRUB BEDS, PERENNIALS, & GRASSES –18"MIN.
   MAJOR & MINOR TREES – SEE DETAILS.
5. NO PLANT SUBSTITUTION WILL BE ACCEPTED UNLESS AUTHORIZED BY THE LANDSCAPE ARCHITECT.
6. THE LANDSCAPE ARCHITECT MAY REJECT ANY PLANT MATERIAL WHICH DOES NOT REPRESENT SPECIES AS OUTLINED IN PLANT LIST.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING QUANTITIES SHOWN ON THE PLANS. ANY DISCREPANCIES BETWEEN WHAT IS SHOWN ON THE PLANS & QUANTITIES IN THE PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE PLAN COUNT SHALL TAKE PRECEDENCE.

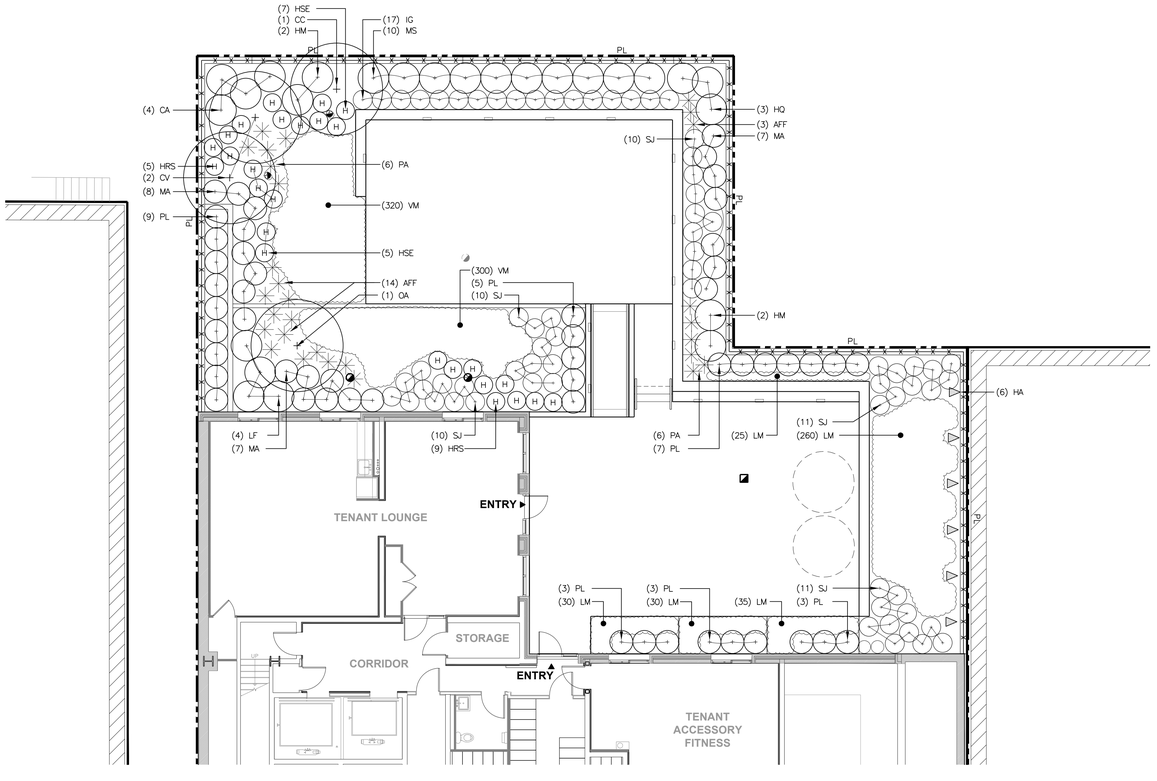
PLANT LIST

QTY	SYM	BOTANICAL NAME	COMMON NAME	SIZE	ROOT/CONT.	SPACING	REMARKS
ORNAMENTAL TREE							
1	CC	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	2½"–3" CAL.	B&B	AS SHOWN	SPECIMEN, SINGLE STEM, LIMB UP TO 5' HT.
2	CV	CHIONANTHUS VIRGINICUS	FRINGE TREE	8'–10' HT.	B&B	AS SHOWN	SPECIMEN
1	OA	OXYDENDRUM ARBOREUM	SOURWOOD	2½"–3" CAL.	B&B	AS SHOWN	SPECIMEN, LIMB UP TO 5' HT., FALL PLANT.
SHRUBS							
4	CA	CLETHRA ALNIFOLIA	SUMMERSWEET	24"–30" HT.	CONT.	AS SHOWN	DENSE, SYMM., FULL TO GROUND
4	HM	HYDRANGEA MACRPHYLLA 'SISTER THERESA'	SISTER THERESAS HYDRANGEA	30"–36" HT.	CONT.	AS SHOWN	DENSE, SYMM., FULL TO GROUND
3	HQ	HYDRANGEA QUERCIFOLIA 'SNOWFLAKE'	SNOWFLAKE OAKLEAF HYDRANGEA	30"–36" HT.	CONT.	AS SHOWN	DENSE, SYMM., FULL TO GROUND
17	IG	ILEX GLABRA 'SHAMROCK'	INKEBERRY	20"–24" HT.	CONT.	2'–6" O.C./AS SHOWN	DENSE, SYMM., FULL TO GROUND
4	LF	LEUCOTHOE FONANESIANA	DROOPING LEUCOTHOE	30"–36" HT.	CONT.	AS SHOWN	DENSE, SYMM., FULL TO GROUND
22	MA	MAHONIA AQUIFOLIUM 'COMPACTA'	COMPACT OREGON CRAPE	18"–24" HT.	CONT.	±3'–0" O.C./AS SHOWN	DENSE, SYMM., FULL TO GROUND
30	PL	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN CHERRYLAUREL	30"–36" HT.	CONT.	±3'–0" O.C./AS SHOWN	DENSE, SYMM., FULL TO GROUND
52	SJ	SKIMMIA JAPONICA	JAPANESE SKIMMIA	18"–24" HT.	CONT.	±2'–6" O.C./AS SHOWN	DENSE, SYMM., FULL TO GROUND
GROUNDCOVERS/GRASSES/FERNS/PERRENIALS							
17	AFF	ATHYRIUM FILIX–FEMINA	LADY FERN	24"–30" HT.	CONTAINER	±2'–0" O.C./AS SHOWN	VIGOROUS ROOTS, WELL ESTABLISHED IN POTS
14	HRS	HOSTA 'ROYAL STANDARD'	PLANTAIN LILY	24"–30" HT.	CONTAINER	±2'–6" O.C./AS SHOWN	VIGOROUS ROOTS, WELL ESTABLISHED IN POTS
12	HSE	HOSTA SIEBOLDIANA 'ELEGANS'	PLANTAIN LILY	24"–30" HT.	CONTAINER	±2'–0" O.C./AS SHOWN	VIGOROUS ROOTS, WELL ESTABLISHED IN POTS
350	LM	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LIRIOPE	#1 CONT	CONTAINER	12" O.C.	VIGOROUS ROOTS, WELL ESTABLISHED IN POTS
10	MS	MISCANTHUS SINENSIS 'GRACILLIMUS'	MAIDEN GRASS	24"–30" HT.	CONTAINER	4'–0" O.C./AS SHOWN	VIGOROUS ROOTS, WELL ESTABLISHED IN POTS
12	PA	POLYSTICHUM ACROSTICHOIDES	CHRISTMAS FERN	#1 CONT	CONTAINER	±2'–6" O.C./AS SHOWN	VIGOROUS ROOTS, WELL ESTABLISHED IN POTS
620	VM	VINCA MINOR	COMMON PERIWINKLE	2¼" POT	CONTAINER	10" O.C.	VIGOROUS ROOTS, WELL ESTABLISHED IN POTS
VINES							
6	HY	HYDRANGEA ANOMALA SUBSP. PETIOLARIS	CLIMBING HYDRANGEA	#1 CONT	CONTAINER	AS SHOWN	VIGOROUS ROOTS, WELL ESTABLISHED IN POTS



1 Grading Plan
Scale: 1/8"=1'-0"

0 2' 4' 8' 16'



2 Planting Plan
Scale: 1/8"=1'-0"

0 2' 4' 8' 16'

DOB STAMP ZONE

145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED
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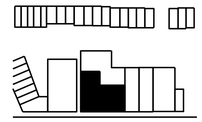

KEY PLAN:NTS

MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

Grading & Planting Plan

DRAWING #: L101

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DOB 320909727

IRRIGATION LEGEND

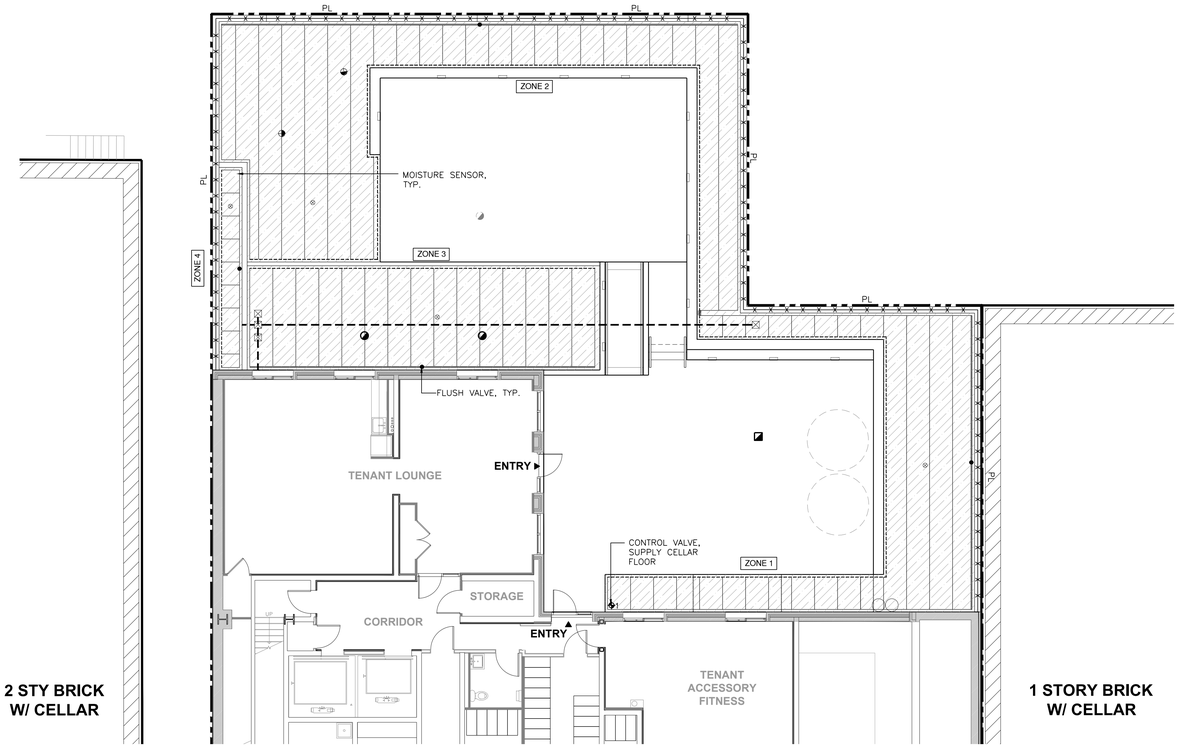
PL	PROPERTY LINE
ZONE 1	IRRIGATION ZONE NUMBER
1	REMOTE CONTROL VALVE / ZONE NO.
	MOISTURE SENSOR
	FLUSH VALVE
	PROPOSED BELOW SLAB MAIN LINE
	PROPOSED POLYETHYLENE IRRIGATION LINE WITH NO EMITTERS IN PVC SLEEVE
	PVC IRRIGATION SUPPLY HEADER
	PVC IRRIGATION EXHAUST HEADER
	POLYETHYLENE DRIP IRRIGATION LINE
	1/2" PIPE SUPPLY HEADER
	REMOTE CONTROL VALVE

IRRIGATION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETE WATER COVERAGE IN ALL IRRIGATED AREAS, DRIPLINES MAY BE REPOSITIONED DUE TO ON-SITE CONDITIONS, AS APPROVED BY THE OWNER'S REPRESENTATIVE.
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, FITTINGS, ETC., NECESSARY TO FURNISH A COMPLETE AUTOMATIC DRIP IRRIGATION SYSTEM.
3. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR CONTROL WIRE CONDUIT TYPE AND SIZE.
4. REFER TO PLUMBING DRAWINGS FOR WATER SUPPLY AND RPZ BACKFLOW DEVICE.
5. MOISTURE SENSORS SHALL BE LOCATED AS INDICATED.
6. COORDINATE IRRIGATION WORK WITH ELECTRICAL WORK AND PLANTING LOCATIONS WITHIN PLANTERS.
7. IRRIGATION PIPING DEPTH REQUIREMENTS:
   DRIP IRRIGATION SUPPLY HEADER AND EXHAUST HEADER: 3" MIN. COVER (EXCLUDING MULCH)
   DRIP IRRIGATION TUBING: 3" MIN. COVER (EXCLUDING MULCH)
8. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES.
9. CONTRACTOR IS TO PROGRAM AND MAINTAIN CONTROLLER UNTIL FINAL ACCEPTANCE OF THE PROJECT. COORDINATE IRRIGATION SCHEDULE WITH LANDSCAPE CONTRACTOR.
10. REMOTE CONTROL VALVE BOX LOCATIONS SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

IRRIGATION CALCULATIONS				
ZONE NO.	PRESSURE	DISTANCE	RATE/HR	RATE/MIN
ZONE 1	35 PSI	188 LF	0.4 GPH	.835 GPM
ZONE 2	35 PSI	304 LF	0.4 GPH	1.35 GPM
ZONE 3	35 PSI	195 LF	0.4 GPH	.866 GPM
ZONE 4	35 PSI	23.4 LF	0.4 GPH	.104 GPM
TOTAL FLOW ALL ZONES:				3.155 GPM

IRRIGATION SCHEDULE		
QUAN.	DESCRIPTION	MANUFACTURER
711	DRIPLINE: TECHLINE CV DRIPPERLINE MODEL: TLCV4-1801	NETAFIM USA 5470 E. HOME AVE FRESNO, CA 93727 Tel: (1) 888-638-2346
285	SUPPLY HEADER: 1/2" TECHLINE CV BLANK TUBING MODEL: TLCV001	
176	EXHAUST HEADER: 1/2" TECHLINE CV BLANK TUBING MODEL: TLCV001	
4	LINE FLUSHING VALVE: MANUAL FLUSH VALVE MODEL: TLSOV	
1	AUTO CONTROL VALVE CONTROLLER AND DETAILS	
4	MOISTURE SENSOR MODEL: WATER TEC S100	BASELINE SYSTEMS 10259 W. EMERALD ST. SUITE 160 BOISE, ID 83704 Tel: (1) 866-294-5874



1 Irrigation Plan
Scale: 1/8"=1'-0"

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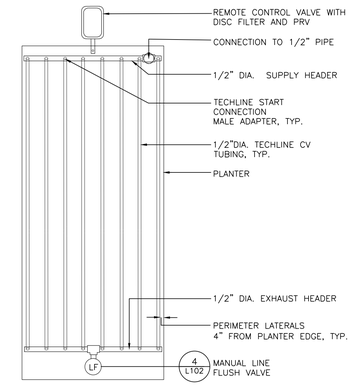
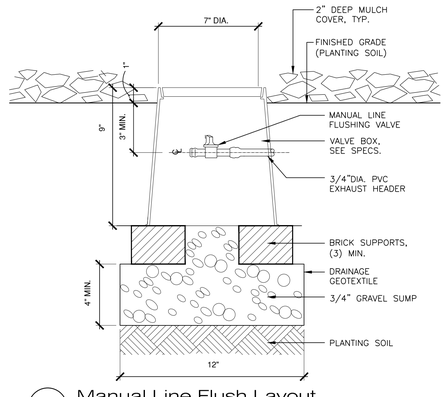
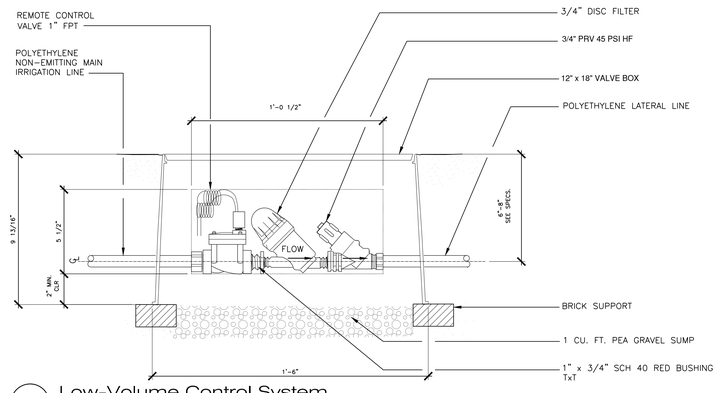


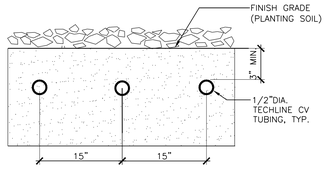
2 Techline CV Center/ End Feed Layout
Scale: N.T.S.



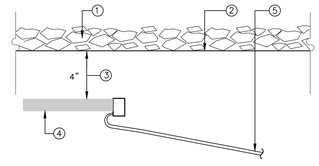
4 Manual Line Flush Layout
Scale: 3"=1'-0"



6 Low-Volume Control System
Scale: 3"=1'-0"

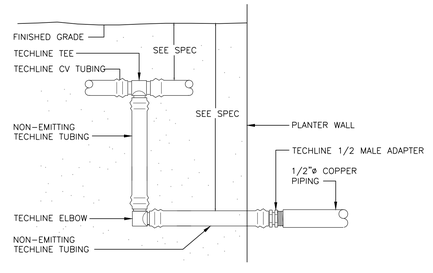


3 Techline CV Subgrade Installation
Scale: N.T.S.



1. 2" DEEP MULCH COVER, TYP.
2. FINISH GRADE (PLANTING SOIL)
3. BURY DEPTH – BISENSOR
4. BISENSOR – SET LENGTH HORIZONTALLY AND BLADE IN VERTICAL POSITION WITH WIRES LEADING OUT OF BOTTOM
5. ROUTE WIRE TO AUTOMATIC CONTROL VALVE
   NOTE: DISTANCE FROM MOISTURE SENSOR TO CONTROLLER 500' MAX.

5 Bisensor Moisture Sensor Installation
Scale: N.T.S.



7 Techline Start Connection
Scale: N.T.S.

DOB STAMP ZONE

145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED
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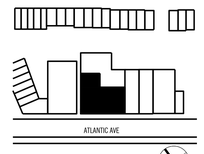


KEY PLAN:NTS

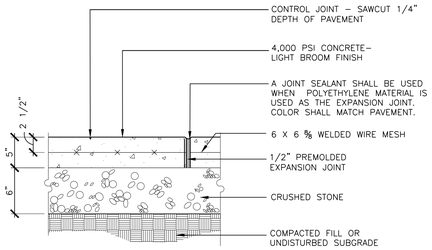
MA PROJECT NO. 1505
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

Irrigation Plan & Details

DRAWING #: L-102
____ of _____

DOB 320909727

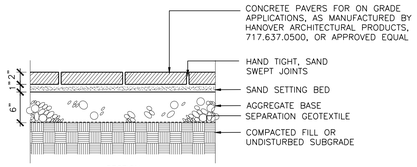


SECTION

NOTE: EXPANSION JOINTS EVERY 25'–0" O.C. MIN., TYP.

1 Concrete Pavement

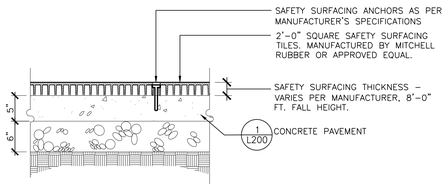
Scale: 1 1/2"=1'–0"



SECTION

2 Concrete Pavers

Scale: 1"=1'–0"

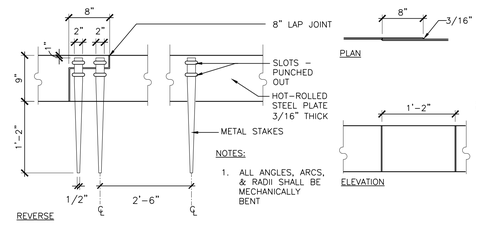


NOTES:

1. THE CONTRACTOR SHALL SUBMIT SAFETY SURFACE LAYOUT AND ATTACHMENT DETAILS FOR APPROVAL.
2. INSTALLATION OF SAFETY SURFACING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
3. THE CONTRACTOR SHALL RECESS CONCRETE PAVEMENT TO THE DEPTH REQUIRED BY THICKNESS OF SAFETY SURFACE, WHICH VARIES BY MANUFACTURER.

3 Safety Surface

Scale: 1"=1'–0"



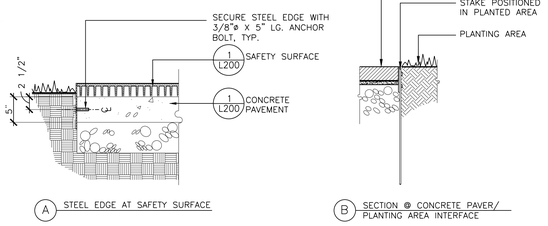
NOTES:

1. ALL ANGLES, ARCS, & RADII SHALL BE MECHANICALLY BENT

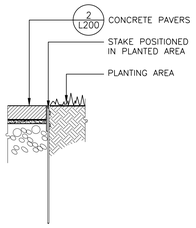
REVERSE

PLAN

ELEVATION



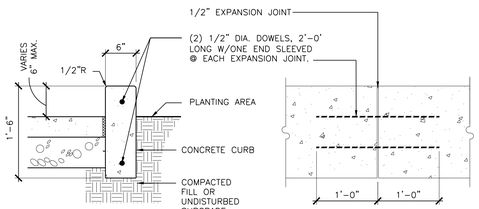
A STEEL EDGE AT SAFETY SURFACE



B SECTION @ CONCRETE PAVER/ PLANTING AREA INTERFACE

4 Steel Edge

Scale: 1"=1'–0"

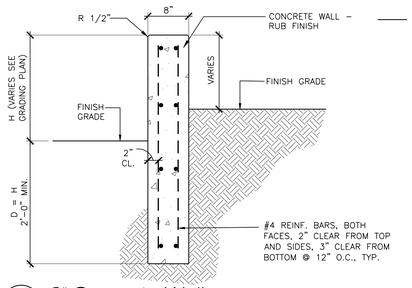


SECTION

ELEVATION

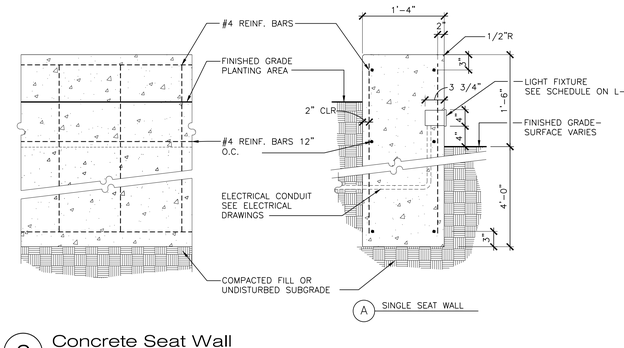
5 6" Concrete Curb

Scale: 1"=1'–0"

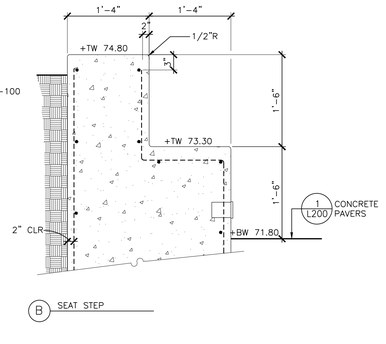


7 8" Concrete Wall

Scale: 1"=1'–0"



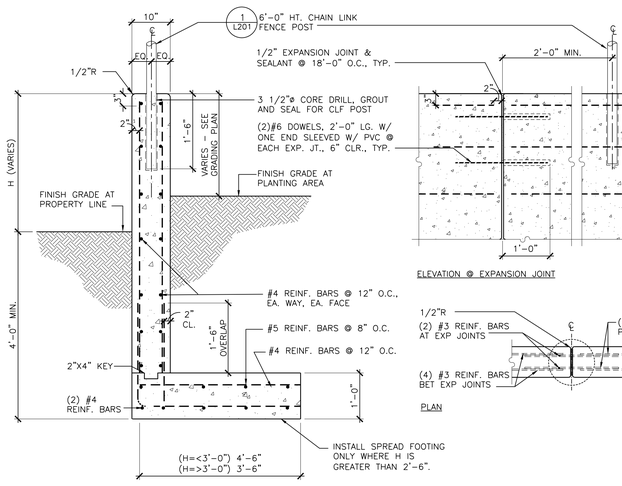
A SINGLE SEAT WALL



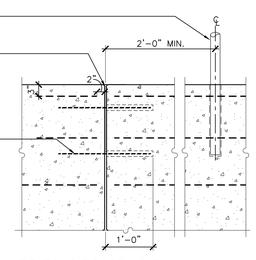
B SEAT STEP

6 Concrete Seat Wall

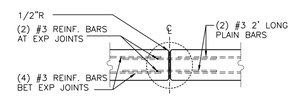
Scale: 1"=1'–0"



SECTION



ELEVATION @ EXPANSION JOINT



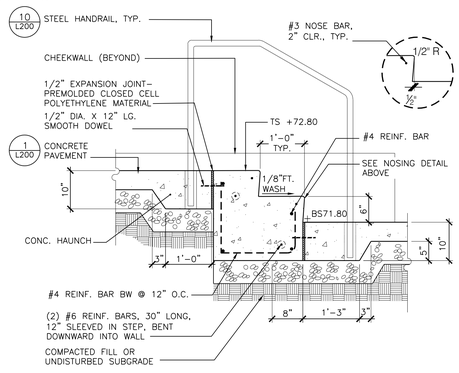
PLAN

NOTE:

1. EXPANSION JOINTS SPACED 18'–0" CENTER TO CENTER MAX TO LINE UP WITH CENTER OF EVERY THIRD PANEL FOR 6'–0" CHAIN LINK FENCE.
2. CONCRETE RETAINING WALL SHALL HAVE A BOARD FINISH

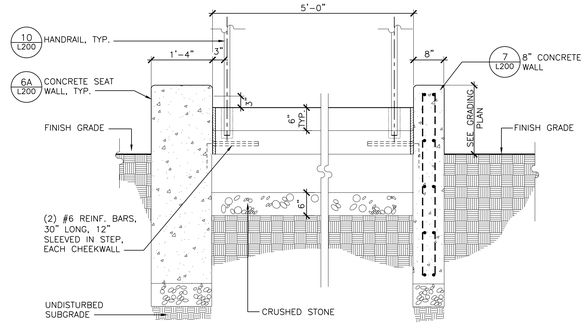
8 10" Concrete Wall

Scale: 3/4"=1'–0"



NOTES:

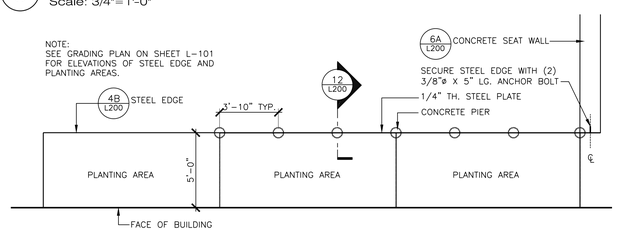
1. TOP STEP SHALL MEET PAVEMENT FLUSH.
2. CONCRETE STEPS MUST BE POURED ON A WELL COMPACTED SUBGRADE.
3. HEIGHTS OF RISERS SHALL BE EQUAL



SECTION B

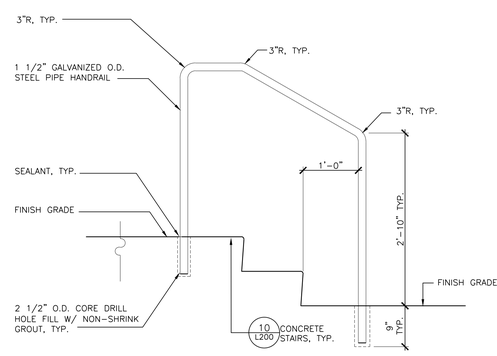
9 Concrete Stairs

Scale: 3/4"=1'–0"



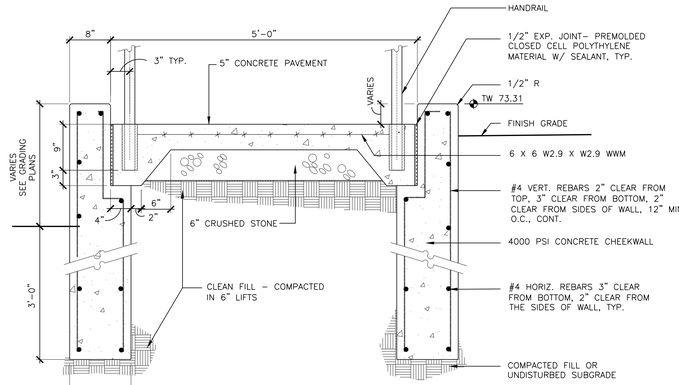
10 Handrail

Scale: 1"=1'–0"

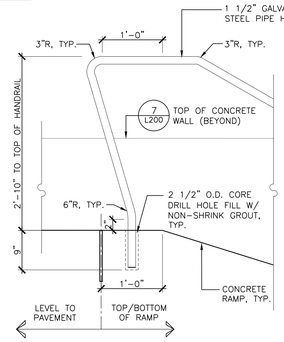


NOTES:

1. FOR WIDTH OF TREAD SEE CONCRETE STEPS DETAIL.
2. HANDRAIL SHALL EXTEND 12 INCHES ONTO LEVEL PLATFORM AT TOP OF STEPS AND ONE TREAD WIDTH AT BOTTOM OF STEPS.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.



SECTION

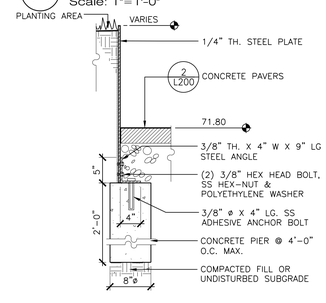


NOTES

1. PIPERAIL HANDRAIL SHALL BE 1–1/2" O.D. D.O.M. DRAWN OVER MANDREL) COLD DRAWN ELECTRIC RESISTANCE WELDED STEEL TUBING, CONFORMING TO ASTM SPECIFICATION A513. AN INTERNAL PIPE SLEEVE SHALL BE WELDED TO ONE END OF THE PIPERAIL AT JOINTS, PIPERAIL SHALL THEN BE FULLY WELDED AND GROUND SMOOTH.
2. PIPERAIL SHALL BE PAINTED AS PER SPECS.
3. ALL JOINTS SHALL BE FULLY WELDED AND GROUND SMOOTH (TYP).
4. PIPERAIL HANDRAIL SHALL EXTEND 1'–0" ONTO LEVEL PORTIONS OF RAMP AT BOTH TOP AND BOTTOM.
5. CONTRACTOR SHALL SUBMIT COMPLETE SET OF SHOP DRAWINGS.

11 Concrete Ramp

Scale: 1"=1'–0"



12 Steel Planter Edge

Scale: 1"=1'–0"

DOB STAMP ZONE

145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

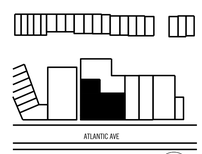
CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

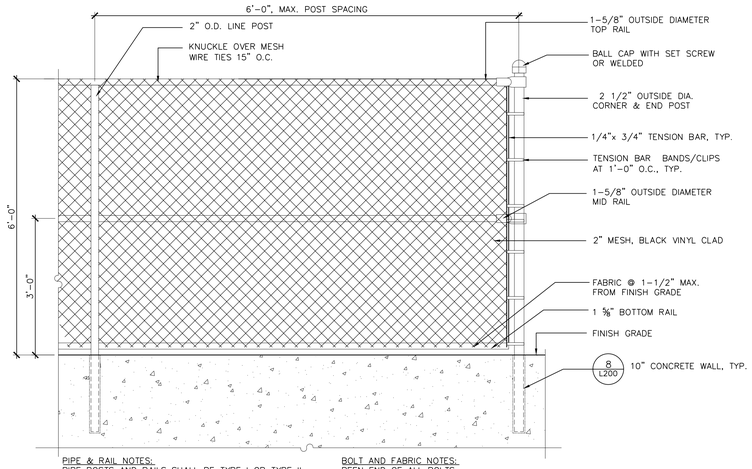
SITE DETAILS

DRAWING #: L-200

___ of ___

DOB 320909727

9/21/2015 4:07:28 PM



PIPE & RAIL NOTES:
PIPE POSTS AND RAILS SHALL BE TYPE I OR TYPE II:

TYPE I – ROUND MEMBERS SHALL BE HOT-DIPPED GALVANIZED CONFORMING TO ASTM A-53 STANDARD WEIGHT SCHEDULE 40.

TYPE II – ROUND MEMBERS SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM A-569 COLD ROLLED WELDED AND HAVE TENSILE STRENGTH OF 60,000 PSI GIVEN CORROSION PROTECTION AS PER SPEC FOR SS-40.

WIRE FABRIC NOTES:
THE MESH SHALL BE PLACED ON THE OUTSIDE OF THE POSTS OF ALL EXTERIOR CHAIN LINK FENCES.

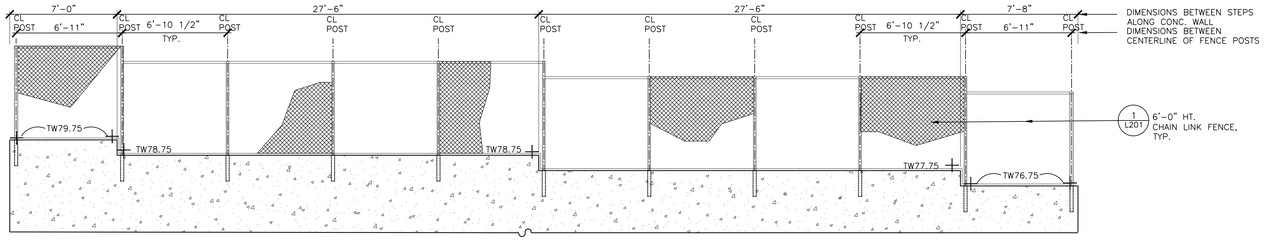
BOLT AND FABRIC NOTES:
PEEN END OF ALL BOLTS.

BOLTS WHICH ARE INSTALLED 6' OR LESS ABOVE GRADE SHALL NOT PROTRUDE MORE THAN 1/4" BEYOND THE NUT AFTER TIGHTENING.

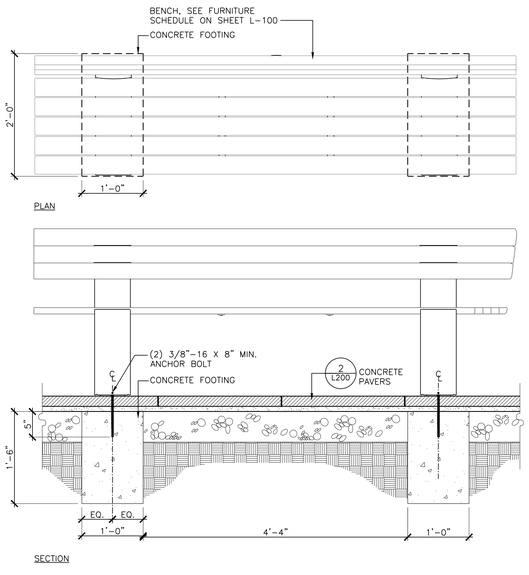
ALL ROUGH EDGES SHALL BE FILED SMOOTH TO THE SATISFACTION OF THE ENGINEER.

FABRIC TO BE KNUCKED AT TOP AND BOTTOM RAILS.

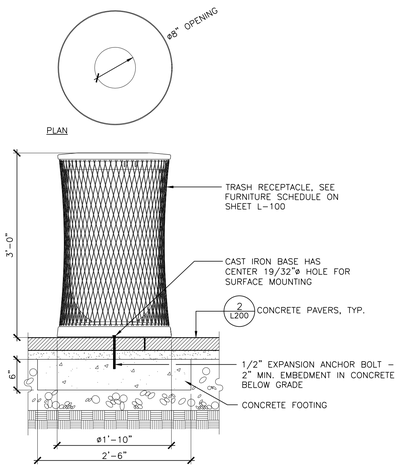
1 6'-0 Ht. Chain Link Fence
Scale: 3/4"=1'-0"



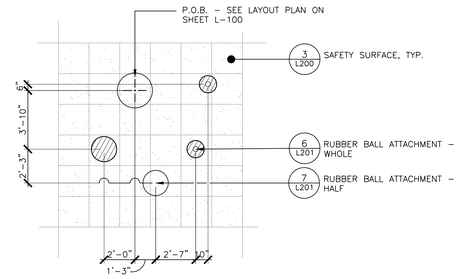
2 Concrete Wall & Chain Link Fence Elevation
Scale: 1/4"=1'-0"



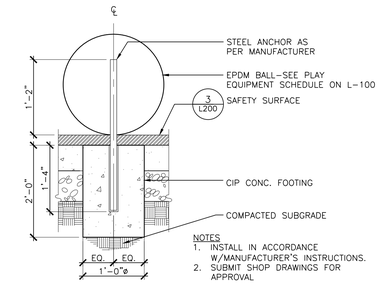
3 Bench Connection
Scale: 1"=1'-0"



4 Trash Receptacle Connection
Scale: 1" = 1'-0"

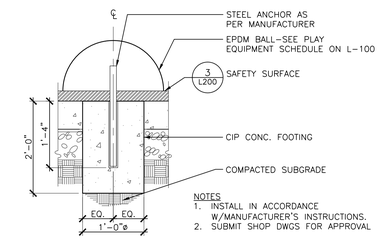


5 Rubber Ball Layout Plan
Scale: 1/4" = 1'-0"



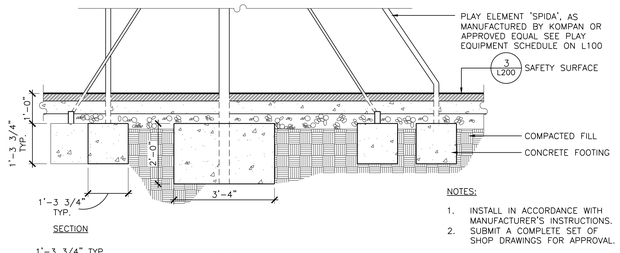
NOTES
1. INSTALL IN ACCORDANCE W/MANUFACTURER'S INSTRUCTIONS.
2. SUBMIT SHOP DRAWINGS FOR APPROVAL

6 Rubber Ball Attachment - Whole
Scale: 1" = 1'-0"



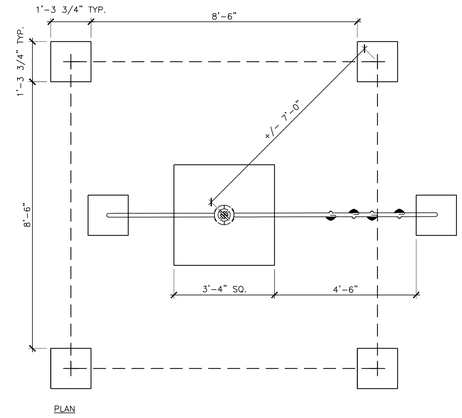
NOTES
1. INSTALL IN ACCORDANCE W/MANUFACTURER'S INSTRUCTIONS.
2. SUBMIT SHOP DWGS FOR APPROVAL

7 Rubber Ball Attachment - Half
Scale: 1" = 1'-0"



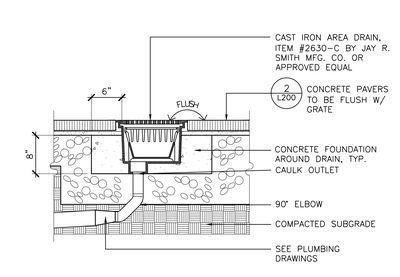
SECTION

NOTES:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. SUBMIT A COMPLETE SET OF SHOP DRAWINGS FOR APPROVAL.

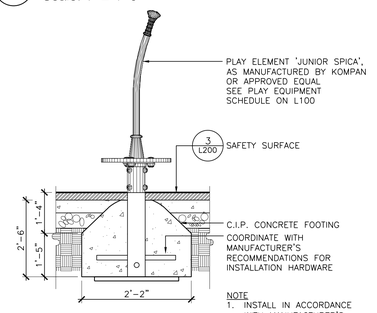


PLAN

8 Play Structure Connection
Scale: 1/2" = 1'-0"



9 Area Drain at Concrete Pavers
Scale: 1" = 1'-0"



NOTE
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. SUBMIT SHOP DRAWINGS FOR APPROVAL

10 Footing Junior Spica
Scale: 1/2" = 1'-0"

145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

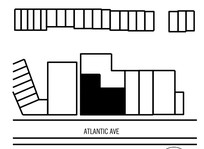
CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

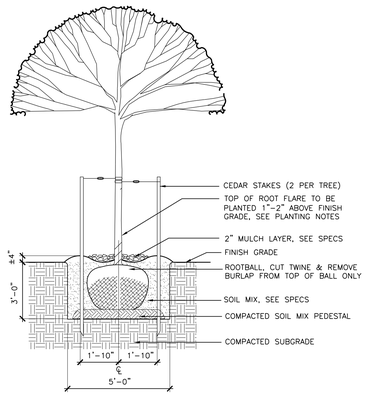
SITE DETAILS

DRAWING #: L-201

___ of _____

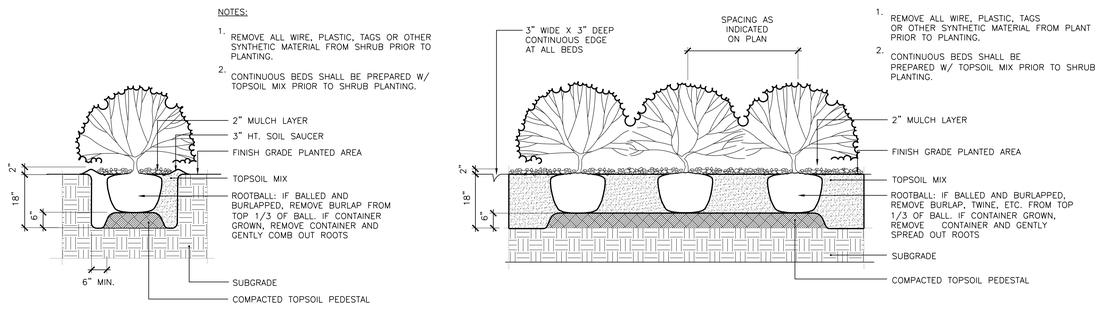
DOB 320909727

DOB STAMP ZONE



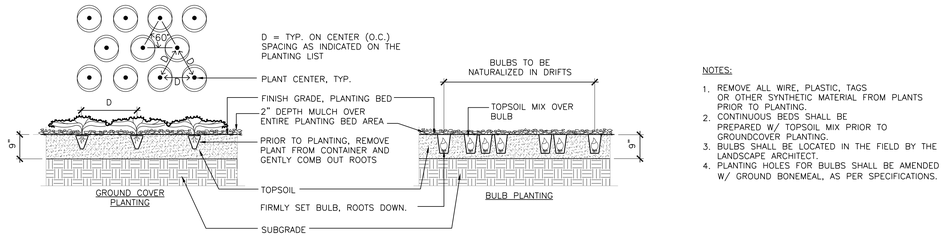
1 Deciduous Tree Planting

Scale: 3/8"=1'-0"



2 Shrub Planting

Scale: 1/2"=1'-0"



3 Groundcover/Bulb Planting

Scale: 1/2"=1'-0"

[redacted]

145 HUDSON STREET, FLR.3 NEW YORK, NY 10013 212.616.0420

CLIENT **HUDSON COMPANIES INCORPORATED**

OWNER **ATHENA HOUSING ASSOCIATES LLC.**

STRUCTURAL ENGINEER **DE NARDIS ENGINEERING, LLC.**

MEP ENGINEER **EP ENGINEERING**

CODE CONSULTING **DESIGN 2147**

ACCESSIBILITY CONSULTANT **STEVEN WINTERS ASSOCIATES**

LANDSCAPE **ABEL BAINNSON BUTZ, LLP**

REV	DATE	DESCRIPTION
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4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016

KEY PLAN:NTS

MA PROJECT NO. 1505

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

PLANTING DETAILS

DRAWING #: L-202

____ of ____

DOB 320909727

DOB STAMP ZONE

9/21/2015 4:07:28 PM

Marvel Architects
145 HUDSON ST, FL 3 NEW YORK, NY 10013 212.616.0420

CLIENT	**HUDSON COMMUNITIES INCORPORATED**
OWNER	**ATLANTIC HOUSING ASSOCIATES LLC**
STRUCTURAL ENGINEER	**DE NARDIS ENGINEERING, LLC**
MEP ENGINEER	**TBD**
CODE CONSULTING	**DESIGN 21**
ACCESSIBILITY CONSULTANT	**STEVEN WINTERS ASSOCIATES**
LANDSCAPE	**ABEL BAINNSON BUTTS LLC**

SUPPORT OF EXCAVATION
AT
909 ATLANTIC AVENUE
BROOKLYN, NY 11238

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD

DRAWING LIST:

SOE-001.00 COVER SHEET

SOE-100.00 GENERAL NOTES AND SITE PLAN

SOE-101.00 SITE EXCAVATION PLAN

SOE-102.00 CROSS-SECTION

SOE-103.00 SECTIONS AND DETAILS

SUPPORT OF EXCAVATION

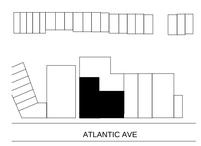
ADDRESS: 909 ATLANTIC AVENUE
BROOKLYN, NY 11238

BLOCK: 2121
LOTS: 12, 2

BIN:

APPLICANT: DE NARDIS ENGINEERING, LLC
CLOSED BY: ADE NARDIS, PE

DATE: 11/12/2015



KEY PLAN:NTS

PROJECT NO. 15005.00
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

COVER SHEET

DRAWING #: **SOE-001.00**

___ of ____

DOB ##### ZONE

LIRR SUBMISSION
01/29/16

NOTE: THE DESIGN, DETAILS AND NOTES ARE IN COMPLIANCE WITH NYC BC SECTION 1613 - EARTHQUAKE LOADS.

GENERAL NOTES

GENERAL

1. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARK OUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES.

2. IF AN UNFORESEEN INTERFERENCE EXISTS BETWEEN AN EXISTING AND PROPOSED UTILITY OR STRUCTURE THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER SO THAT THE APPROPRIATE REVISIONS CAN BE MADE.

3. THE CONTRACTOR IS TO ADHERE TO ALL APPLICABLE CONSTRUCTION SAFETY STANDARDS AS PUBLISHED IN THE CODE OF FEDERAL REGULATIONS 1926 AS AMENDED.

4. NOTIFY LOCAL, STATE AND FEDERAL AGENCIES AS MAY BE REQUIRED FOR PROPOSED WORK.

5. ALL EROSION CONTROLS (IF REQ'D) ARE TO BE SET IN PLACE PRIOR TO ANY LAND DISTURBANCES ON THE SITE.

6. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING NEAR OR UNDER OVERHEAD UTILITIES. THE CONTRACTOR IS TO NOTIFY THE UTILITY COMPANIES OF HIS INTENT PRIOR TO COMMENCEMENT OF ANY WORK.

7. ANY DRAINAGE STRUCTURES, UTILITIES, DITCHES, GRASSED AREAS, PAVEMENT, CONCRETE OR CURBS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.

8. THE CONTRACTOR SHALL BE SOLELY AND DIRECTLY RESPONSIBLE TO THE OWNER AND OPERATORS OF SUCH PROPERTIES FOR ANY DAMAGE, INJURY, EXPENSE, LOSS, INCONVENIENCE, DELAY, SUITS, ACTIONS OR CLAIMS OF ANY CHARACTER RESULTING FROM THE CONSTRUCTION OPERATIONS UNDER THIS CONTRACT.

9. NEITHER THE OWNER, OFFICERS OR AGENTS OF THE BUSINESS SHALL BE RESPONSIBLE TO THE CONTRACTOR FOR DAMAGES AS A RESULT OF THE CONTRACTOR'S FAILURE TO PROTECT UTILITIES ENCOUNTERED IN THE COURSE OF PERFORMING WORK WHERE THE CONTRACTOR'S OPERATIONS COULD CAUSE DAMAGE OR INCONVENIENCE TO WATER, FIRE PROTECTION SYSTEMS, TELEPHONE, ELECTRIC SERVICES, SANITARY AND STORM WATER SYSTEM, THE OPERATIONS SHALL BE SUSPENDED UNTIL ALL ARRANGEMENTS NECESSARY FOR THE PROTECTION OF THESE UTILITIES AND SERVICES HAVE BEEN MADE BY THE CONTRACTOR.

10. THIS PLAN AND APPLICATION ARE FILED FOR APPROVAL ONLY OF THE STATED WORK APPEARING ON THE APPLICATION FORM AND DETAILED ON THE ACCOMPANYING PLANS. ALL OTHER MATTERS ARE NOT TO BE RELIED UPON AND ARE NOT TO BE CONSTRUED AS BEING APPROVED OR IN COMPLIANCE WITH APPLICABLE CODES, RULES OR REGULATIONS. THESE MATTERS ARE SHOWN FOR INFORMATION PURPOSES ONLY.

SUGGESTED S□ORING SE□UENCE OF CONSTRUCTION□

1. LOCATE EXISTING UTILITIES.
2. PERFORM PRE-CONSTRUCTION SURVEYS OF ALL EXISTING NEIGHBORING PROPERTIES. DOCUMENT ALL CONDITIONS FOR RECORD PURPOSES.
3. ERECT TEMPORARY CONSTRUCTION FENCE AT PROPERTY PERIMETER.
4. PERFORM 1:1 SAFE SLOPE OF EXCAVATION AS INDICATED ON PLAN AND AS REQUIRED TO INSTALL TEMPORARY FOOT BLOCKS FOR USE AS TEMPORARY BRACING OF RAKERS AS INDICATED ON PLAN.
5. INSTALL SOLDIER PILES WHERE INDICATED ON PLAN BY AUGERING IF NECESSARY , AND FILL WITH LEAN CONCRETE "ONE SACK MIX" (RATIO OF ONE SACK OF CEMENT PER CUBIC YARD OF SAND) INSTALL TIMBER LAGGING.
6. AT THIS POINT, THE SITE IS EXCAVATED AND READY FOR NEW BUILDING CONSTRUCTION.
7. PERFORM FOUNDATION WORK AS INDICATED ON STRUCTURAL DRAWINGS.
8. PLACE CONCRETE FOR THE FOUNDATION WALLS AND SLABS.
9. DO NOT PLACE ANY BACKFILL AGAINST FOUNDATION WALLS UNTIL FIRST FLOOR CONSTRUCTION HAS BEEN COMPLETED. ANY AREA OF WALL BACKFILLED FOR ACCESS MUST BE ADEQUATELY BRACED TO WITHSTAND EARTH PRESSURE AND CONSTRUCTION LOADS.
10. CONTINUE WITH REMAINING BUILDING SUPERSTRUCTURE CONSTRUCTION.

ADDITIONAL SITE S□ORING AND BRACING NOTES□

1. IF THE CONTRACTOR DETERMINES ALTERNATIVE SHORING EXCAVATION, OR BRACING SCHEMES ARE MORE SUITABLE FOR THIS WORK, PROPOSED METHODS ARE TO BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW. ALTERNATIVE SHORING SCHEMES SHALL BE PREPARED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER, FAMILIAR WITH THE JOB SITE AND SITE CONDITIONS.
2. TEMPORARY SOIL, CONSTRUCTION MATERIAL, OR EQUIPMENT SHALL NOT BE PLACED CLOSER TO THE EDGE OF THE EXCAVATION THAN A DISTANCE EQUAL TO 1½ TIMES THE DEPTH OF THE EXCAVATION.
3. EACH SIDE OF AN EXCAVATION OR TRENCH THAT IS 5'-0" DEEP OR DEEPER SHALL HAVE A SECURED WOOD LADDER EXTENDED 3'-0" ABOVE THE RIM AND AT 50'-0" O.C. OR A RAMP OUT OF THE TRENCH OR EXCAVATION.

SPECIAL NOTES ON RAILROADS
PROTECTIVE LIABILITY INSURANCE

D900011 **PIN X731.24**

1. Each policy of railroad protective liability insurance shall be issued with limits of:

BODILY INJURY LIABILITY PROPERTY DAMAGE LIABILITY

Single limit of $ $2,000,000 combined Bodily Injury Liability and/or Property Damage Liability for each occurrence with a $6,000,000 Aggregate limit applying separately to each annual period.

2. Before any work is started on the railroad company's right-of-way, the contractor shall furnish:

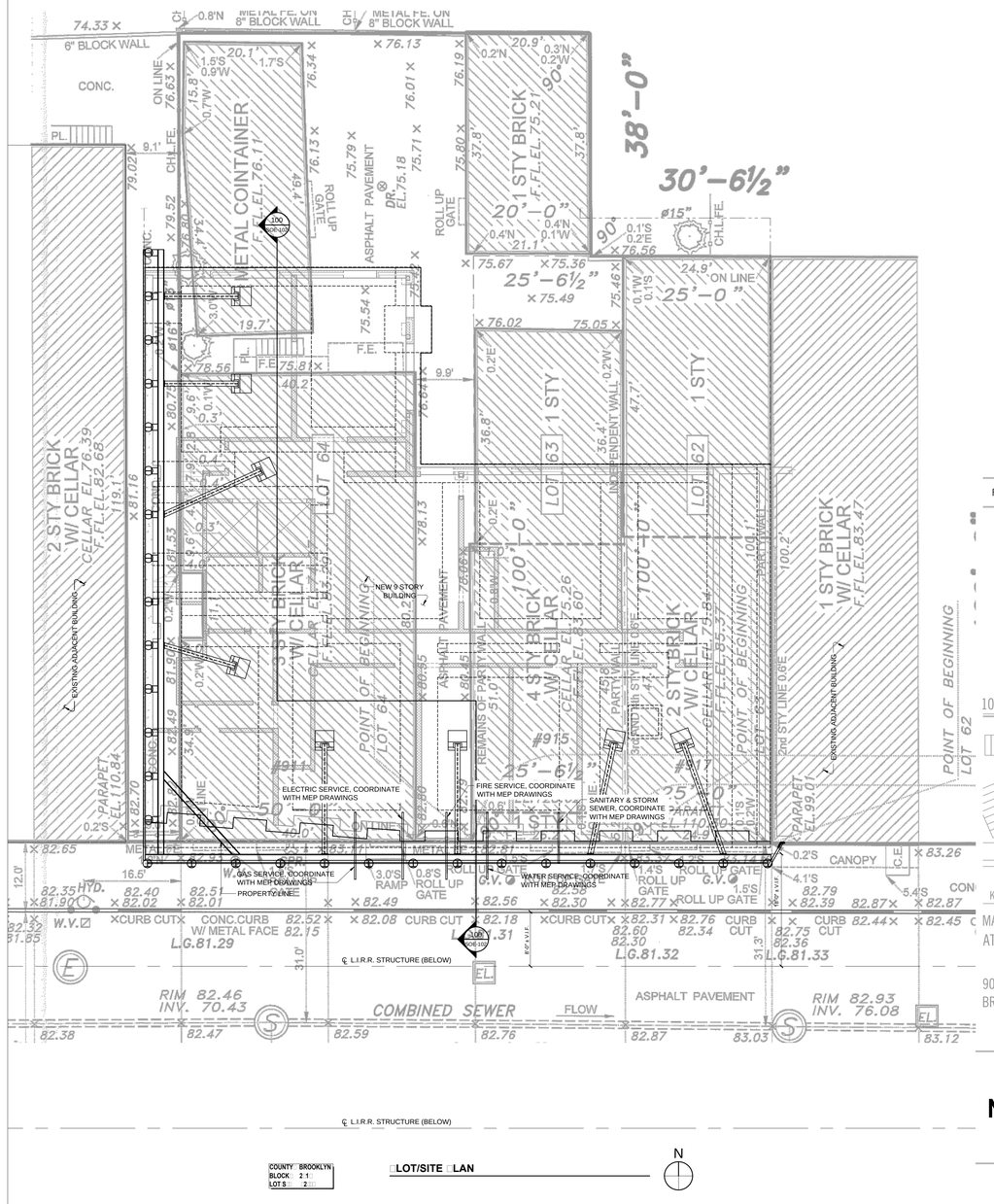
Owner/Operator: MTA/ Long Island Rail Road Co. / New York & Atlantic Railway Co.
Trackage Rights: New York & Atlantic Railway Co.

with a policy of railroad protective liability insurance taken out singularly in the name of each railroad company identified as an owner/operator above in each of the above lines. Said policy(s) shall be subject first to the approval of each named railroad company and the contractor shall also furnish each named railroad company with a copy of the New York State Department of Transportation's Form C-218, Certificate of Insurance for Construction and Reconstruction of State Highway Projects.

This Railroad Protective Liability Insurance Policy issued to the Company shall be in accordance with the U.S. Department of Transportation; Federal Highway Administration, Federal-Aid Policy Guide, 23 CFR Part 646 Subpart A dated December 9, 1991.

The Contractor shall procure and maintain at his own expense, and without expense to the State or Railroad, the above captioned Railroad Protective Liability Insurance. The policies shall not be changed or canceled until thirty (30) days written notice has been given to the Commissioner and the above listed Railroad(s).

Because of railroad involvement, the Contractor's attention is directed to Section 105-09, WORK AFFECTING RAILROADS, in the current "Standard Specifications, Construction and Material Publication of the New York State Department of Transportation".



℄ L.I.R.R. STRUCTURE (BELOW)

COUNTY□ BROOKLYN□
BLOCK□ 2□1□
LOT S□ 2□□

□LOT/SITE □LAN

N

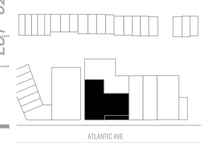
NOTE: THE DESIGN, DETAILS AND NOTES ARE IN COMPLIANCE WITH NYC BC SECTION 1613 - EARTHQUAKE LOADS.

Marvel Architects
145 HUDSON ST, FL.3 NEW YORK, NY 10013 212.616.0420

CLIENT HUDSON COMPANIES INCORPORATED
OWNER ATHENA HOUSING ASSOCIATES LLC.
STRUCTURAL ENGINEER DE NARDIS ENGINEERING, LLC.
MEP ENGINEER EP ENGINEERING
CODE CONSULTING DESIGN 2147
ACCESSIBILITY CONSULTANT STEVEN WINTERS ASSOCIATES
LANDSCAPE ABEL BAINNSON BUTZ, LLP

REV	DATE	DESCRIPTION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
3	08.28.2015	ISSUED FOR 100% DD
4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD
6	01.19.2016	ISSUED FOR HPD #1
7	01.29.2016	ISSUED FOR 100% CD

100%CD 01.29.2016



KEY PLAN:NTS

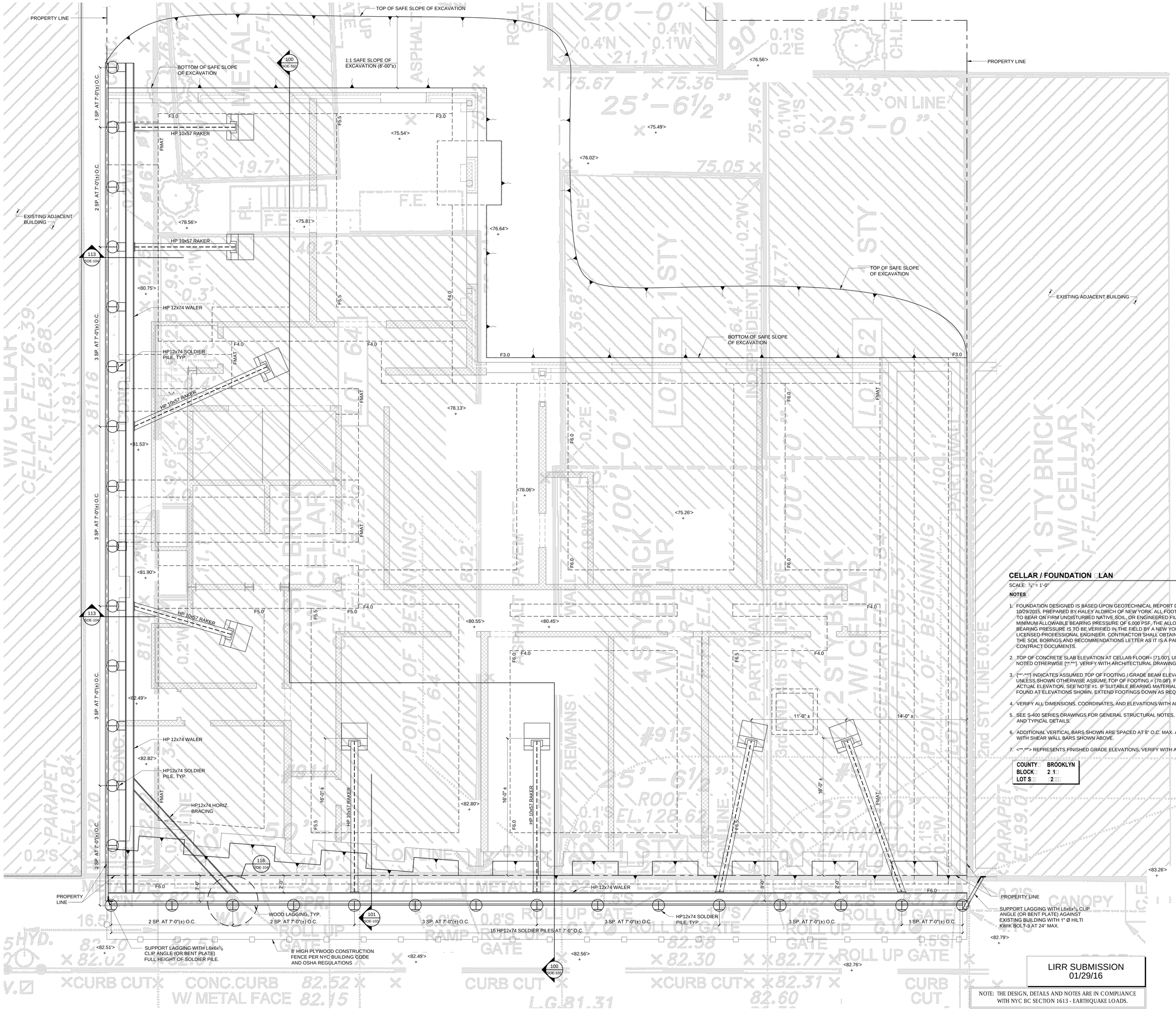
MA PROJECT NO. 15005.00
ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

GENERAL NOTES □ SITE □LAN

DRAWING #: SOE□1□□□

____ of _____



CELLAR / FOUNDATION PLAN

SCALE: ¼" = 1'-0"

NOTES

1. FOUNDATION DESIGNED IS BASED UPON GEOTECHNICAL REPORT DATED 10/29/2015, PREPARED BY HALEY ALDRICH OF NEW YORK. ALL FOOTINGS ARE TO BEAR ON FIRM UNDISTURBED NATIVE SOIL, OR ENGINEERED FILL WITH A MINIMUM ALLOWABLE BEARING PRESSURE OF 6,000 PSF. THE ALLOWABLE SOIL BEARING PRESSURE IS TO BE VERIFIED IN THE FIELD BY A NEW YORK LICENSED PROFESSIONAL ENGINEER. CONTRACTOR SHALL OBTAIN A COPY OF THE SOIL BORINGS AND RECOMMENDATIONS LETTER AS IT IS A PART OF THE CONTRACT DOCUMENTS.
2. TOP OF CONCRETE SLAB ELEVATION AT CELLAR FLOOR= [71.00'], UNLESS NOTED OTHERWISE [**.**']. VERIFY WITH ARCHITECTURAL DRAWINGS.
3. (**'-**") INDICATES ASSUMED TOP OF FOOTING / GRADE BEAM ELEVATION, UNLESS SHOWN OTHERWISE ASSUME TOP OF FOOTING = (70.08'). FIELD VERIFY ACTUAL ELEVATION, SEE NOTE #1. IF SUITABLE BEARING MATERIAL IS NOT FOUND AT ELEVATIONS SHOWN, EXTEND FOOTINGS DOWN AS REQUIRED.
4. VERIFY ALL DIMENSIONS, COORDINATES, AND ELEVATIONS WITH ARCHITECT.
5. SEE S-400 SERIES DRAWINGS FOR GENERAL STRUCTURAL NOTES, SCHEDULES AND TYPICAL DETAILS.
6. ADDITIONAL VERTICAL BARS SHOWN ARE SPACED AT 8" O.C. MAX. AND ALIGN WITH SHEAR WALL BARS SHOWN ABOVE.
7. <**.**'> REPRESENTS FINISHED GRADE ELEVATIONS, VERIFY WITH ARCHITECT.

COUNTY	BROOKLYN
BLOCK	2 1
LOT S	2

LIRR SUBMISSION
01/29/16

NOTE: THE DESIGN, DETAILS AND NOTES ARE IN COMPLIANCE WITH NYC BC SECTION 1613 - EARTHQUAKE LOADS.

N

ATLANTIC AVE

KEY PLAN:NTS

Marvel Architects
145 HUDSON ST, FL 3 NEW YORK, NY 10013 212.616.0420

CLIENT	UDSON COM ANIES INCOR ORATED
OWNER	AT ENA OUSING ASSOCIATES LLC
STRUCTURAL ENGINEER	DE NARDIS ENGINEERING LLC
MEP ENGINEER	E ENGINEERING
CODE CONSULTING	DESIGN 21
ACCESSIBILITY CONSULTANT	STE EN WINTERS ASSOCIATES
LANDSCAPE	ABEL BAINNSON BUT LL

RE	DATE	DESCRI TION
1	06.05.2015	ISSUED FOR 100% SD
2	07.31.2015	ISSUED FOR 50% DD
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4	09.25.2015	ISSUED FOR DOB #1
5	11.20.2015	ISSUED FOR 50% CD

PROJECT NO. 15005.00
ATLANTIC

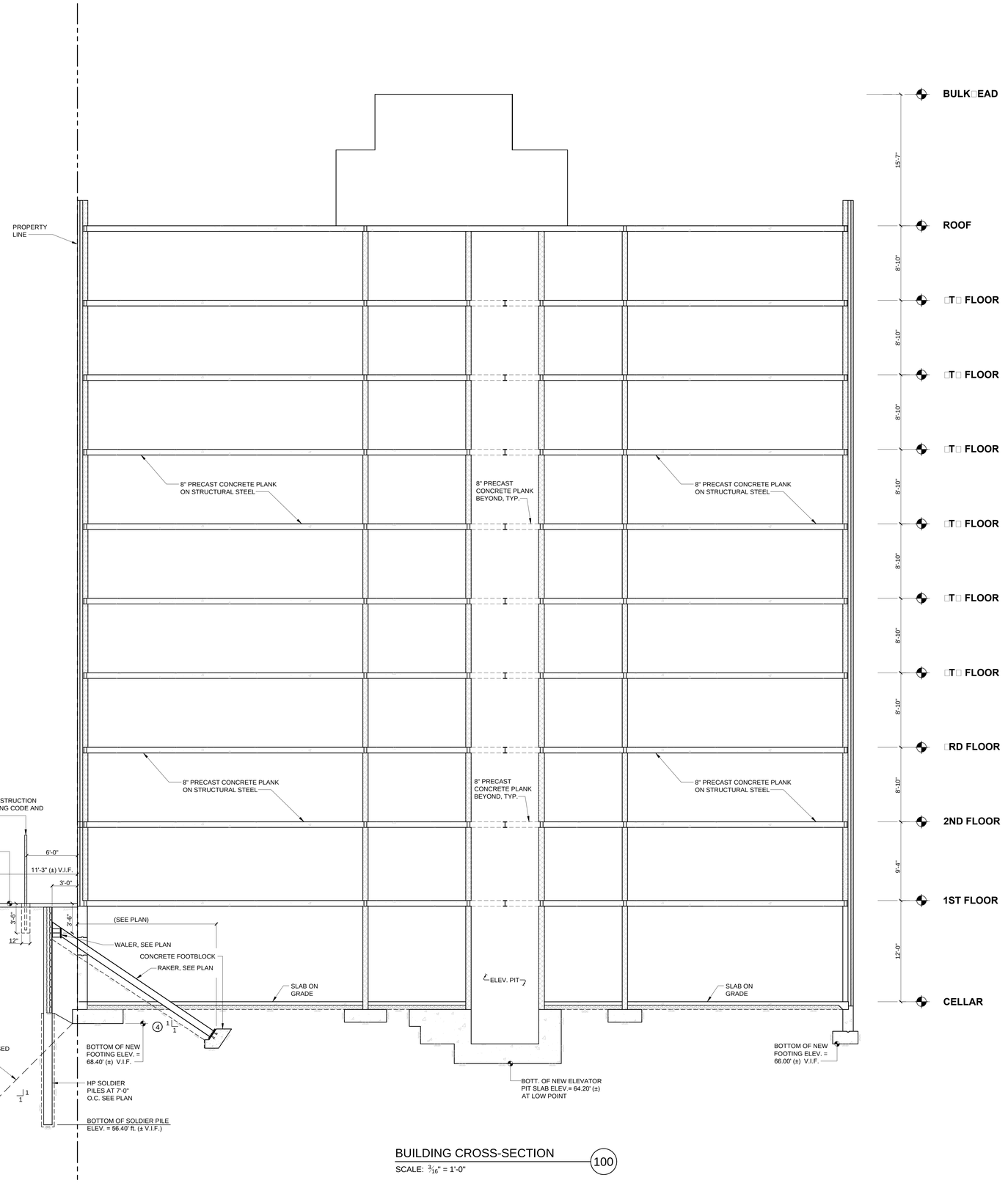
909 ATLANTIC AVE.
BROOKLYN, NY 11238

SITE E CA ATION LAN

DRAWING #: SOE 1 1

____ of _____

DOB ##### ZONE



BUILDING CROSS-SECTION 100

SCALE: 3/16" = 1'-0"

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01/29/16

NOTE: THE DESIGN, DETAILS AND NOTES ARE IN COMPLIANCE WITH NYC BC SECTION 1613 - EARTHQUAKE LOADS.

Marvel Architects
145 HUDSON ST, FL.3 NEW YORK, NY 10013 212.616.0420

CLIENT	□UDSON COM□ANIES INCOR□ORATED
OWNER	AT□ ENA □OUSING ASSOCIATES LLC□
STRUCTURAL ENGINEER	DE NARDIS ENGINEERING□ LLC□
MEP ENGINEER	E□ ENGINEERING
CODE CONSULTING	DESIGN 21□
ACCESSIBILITY CONSULTANT	STE□EN WINTERS ASSOCIATES
LANDSCAPE	ABEL BAINNSON BUT□LL□

RE□	DATE	DESCRI□TION
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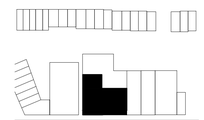


KEY PLAN:NTS

PROJECT NO. 15005.00
ATLANTIC

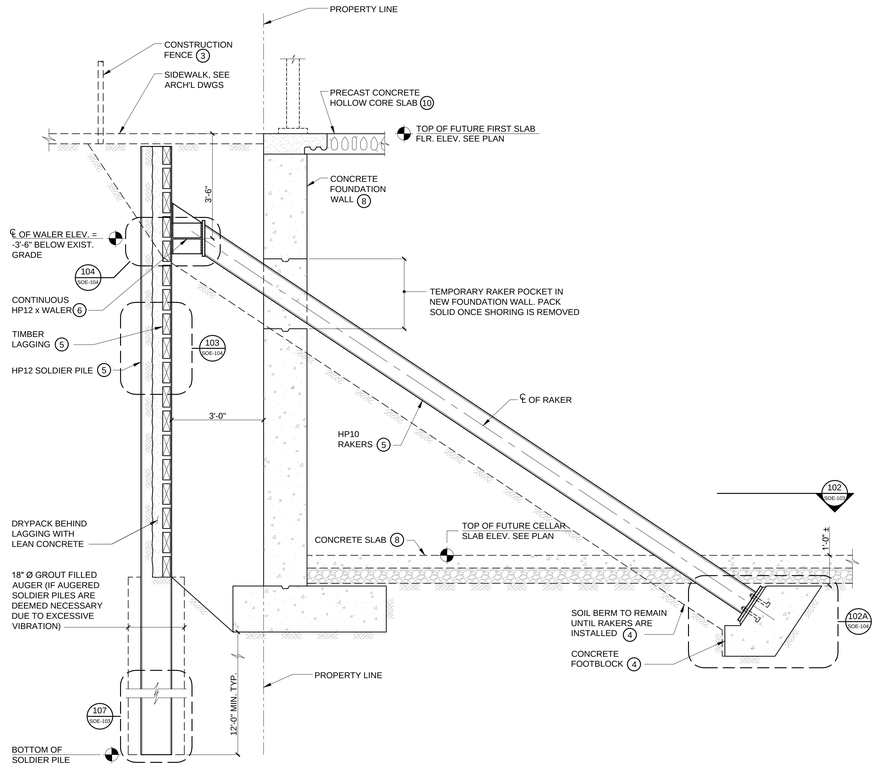
909 ATLANTIC AVE.
BROOKLYN, NY 11238

CROSS-SECTION THROUGH PROPOSED NEW STRUCTURE

DRAWING #: SOE□1□2

____ of ____

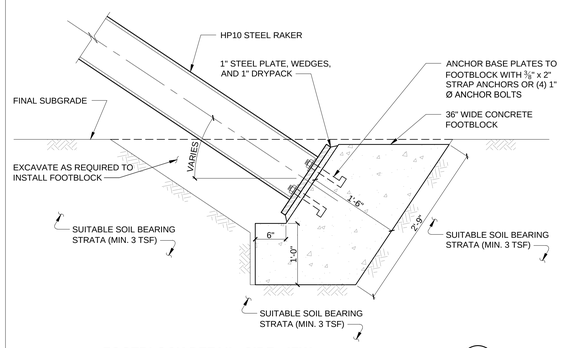
DOB ##### ZONE



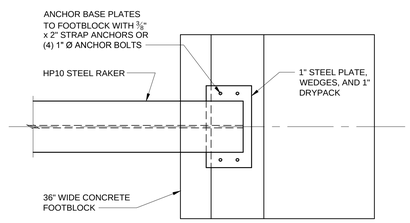
TYPICAL SECTION THROUGH EXCAVATION 1.1

1/2" = 1'-0"

1. (#) INDICATES PROPOSED SHORING SEQUENCE OF CONSTRUCTION NUMBER. SEE NOTES ON SOE-100.00.

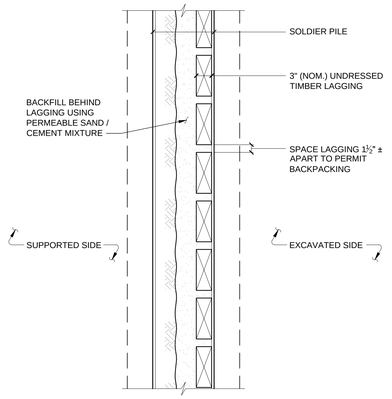


FOOTBLOCK DETAIL SIDE VIEW 1.2A



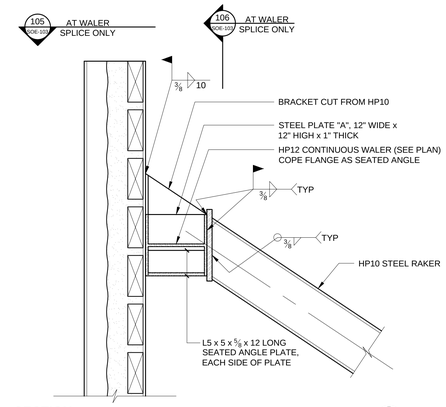
FOOTBLOCK DETAIL TOP VIEW 1.2

1" = 1'-0"



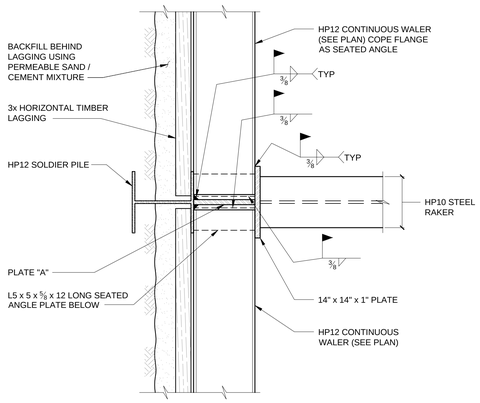
SECTION AT TIMBER LAGGING 1.0

1" = 1'-0"



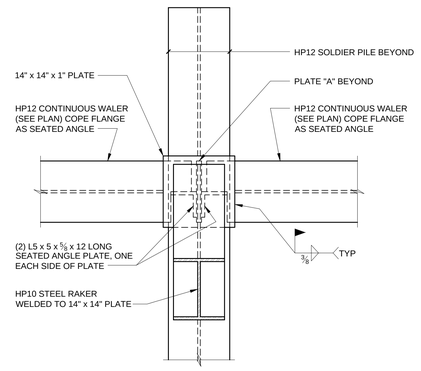
SECTION 1.0

1" = 1'-0"



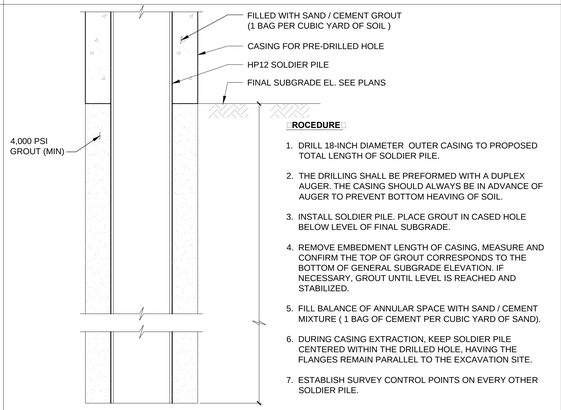
DETAIL AT WALER SLICE 1.0

1" = 1'-0"



ELEVATION AT WALER SLICE 1.0

1" = 1'-0"

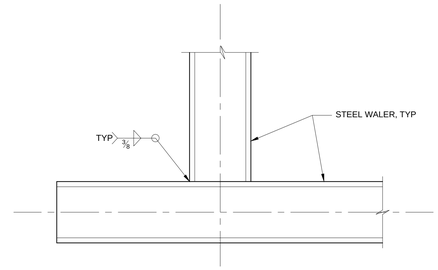


PROCEDURE

1. DRILL 18-INCH DIAMETER OUTER CASING TO PROPOSED TOTAL LENGTH OF SOLDIER PILE.
2. THE DRILLING SHALL BE PREFORMED WITH A DUPLEX AUGER. THE CASING SHOULD ALWAYS BE IN ADVANCE OF AUGER TO PREVENT BOTTOM HEAVING OF SOIL.
3. INSTALL SOLDIER PILE. PLACE GROUT IN CASED HOLE BELOW LEVEL OF FINAL SUBGRADE.
4. REMOVE EMBEDMENT LENGTH OF CASING, MEASURE AND CONFIRM THE TOP OF GROUT CORRESPONDS TO THE BOTTOM OF GENERAL SUBGRADE ELEVATION. IF NECESSARY, GROUT UNTIL LEVEL IS REACHED AND STABILIZED.
5. FILL BALANCE OF ANNULAR SPACE WITH SAND / CEMENT MIXTURE (1 BAG OF CEMENT PER CUBIC YARD OF SAND).
6. DURING CASING EXTRACTION, KEEP SOLDIER PILE CENTERED WITHIN THE DRILLED HOLE, HAVING THE FLANGES REMAIN PARALLEL TO THE EXCAVATION SITE.
7. ESTABLISH SURVEY CONTROL POINTS ON EVERY OTHER SOLDIER PILE.

DRILLED SOLDIER PILE EMBEDMENT DETAIL WHEN REQUIRED 1.0

1" = 1'-0"



WALER CONNECTION DETAIL 1.0

1" = 1'-0"

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NOTE: THE DESIGN, DETAILS AND NOTES ARE IN COMPLIANCE WITH NYC BC SECTION 1613 - EARTHQUAKE LOADS.

Marvel Architects
145 HUDSON ST, FL 3 NEW YORK, NY 10013 212.616.0420

CLIENT	HUDSON COMMUNITIES INCORPORATED
OWNER	ATLANTIC HOUSING ASSOCIATES LLC
STRUCTURAL ENGINEER	DE NARDIS ENGINEERING, LLC
MEP ENGINEER	E ENGINEERING
CODE CONSULTING	DESIGN 21
ACCESSIBILITY CONSULTANT	STEVEN WINTERS ASSOCIATES
LANDSCAPE	ABEL BAINNSON BUTT LLC

REV	DATE	DESCRIPTION
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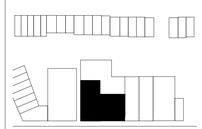


KEY PLAN:NTS

PROJECT NO. 15005.00

ATLANTIC

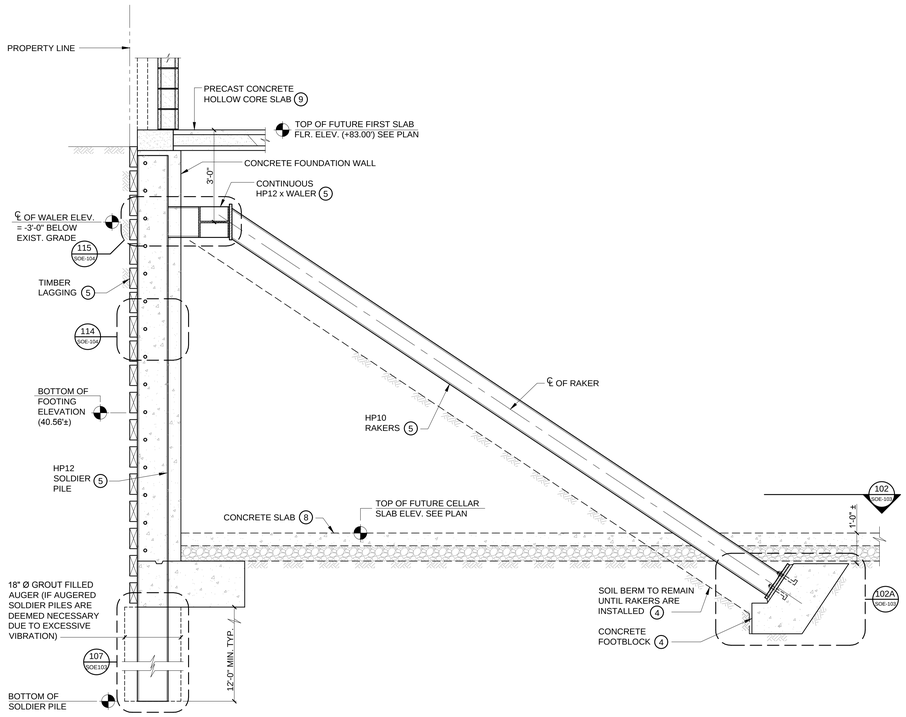
909 ATLANTIC AVE.
BROOKLYN, NY 11238

SECTIONS & DETAILS

DRAWING #: SOE-1

___ of ___

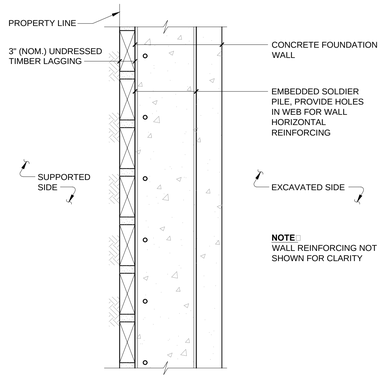
DOB ##### ZONE



TYPICAL SECTION THROUGH EXCAVATION AT CELLAR 11

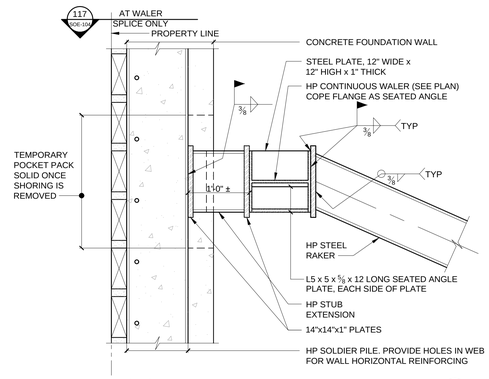
½" = 1'-0"

1. (#) INDICATES PROPOSED SHORING SEQUENCE OF CONSTRUCTION NUMBER. SEE NOTES ON SOE-101.



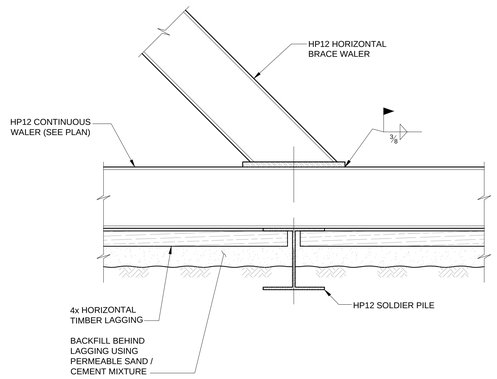
SECTION AT TIMBER LAGGING 11

1" = 1'-0"



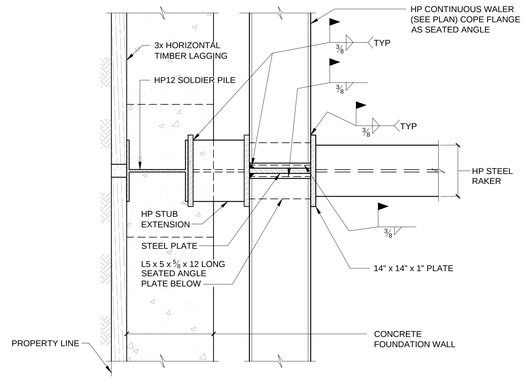
SECTION 11

1" = 1'-0"



PLAN DETAIL AT HORIZONTAL BRACE 11

1" = 1'-0"



DETAIL AT WALER SPLICE IF REQUIRED 11

1" = 1'-0"

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NOTE: THE DESIGN, DETAILS AND NOTES ARE IN COMPLIANCE WITH NYC BC SECTION 1613 - EARTHQUAKE LOADS.

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MEP ENGINEER	E
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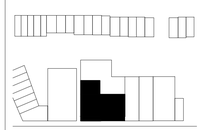


KEY PLAN:NTS

PROJECT NO. 15005.00

ATLANTIC

909 ATLANTIC AVE.
BROOKLYN, NY 11238

SECTIONS & DETAILS

DRAWING #: SOE 1

___ of ___

DOB ##### ZONE

APPENDIX E
LABORATORY DELIVERABLES

ANALYTICAL REPORT

Lab Number:	L1524506
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 303 New York City, NY 10001
ATTN:	Matt Carroll
Phone:	(646) 606-2332
Project Name:	911 ATLANTIC AVE.
Project Number:	911 ATLANTIC
Report Date:	10/07/15

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1524506-01	SB-1	SOIL	BROOKLYN	09/29/15 08:50	09/30/15

Project Name: 911 ATLANTIC AVE. **Lab Number:** L1524506
Project Number: 911 ATLANTIC **Report Date:** 10/07/15

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	911 ATLANTIC AVE.	**Lab Number:**	L1524506
Project Number:	911 ATLANTIC	**Report Date:**	10/07/15

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Metals

L1524506-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG826802-4 MS recoveries for aluminum (377%) and iron (1090%), performed on L1524506-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG826802-4 MS recoveries, performed on L1524506-01, are outside the acceptance criteria for chromium (126%), magnesium (25%), manganese (134%), nickel (70%) and sodium (126%). A post digestion spike was performed and yielded unacceptable recoveries for chromium (71%), manganese (71%), and nickel (73%); all other compounds were within acceptance criteria. This has been attributed to sample matrix.

The WG826802-3 Laboratory Duplicate RPDs, performed on L1524506-01, are outside the acceptance criteria for arsenic (40%), magnesium (34%), and nickel (52%). The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kelly Stenstrom

Title: Technical Director/Representative Date: 10/07/15

ORGANICS

VOLATILES

Project Name: 911 ATLANTIC AVE.
Lab Number: L1524506
Project Number: 911 ATLANTIC
Report Date: 10/07/15

SAMPLE RESULTS

Lab ID: L1524506-01
Client ID: SB-1
Sample Location: BROOKLYN
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/06/15 11:43
Analyst: BN
Percent Solids: 66%

Date Collected: 09/29/15 08:50
Date Received: 09/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	15	1.7	1
1,1-Dichloroethane	ND		ug/kg	2.3	0.13	1
Chloroform	ND		ug/kg	2.3	0.56	1
Carbon tetrachloride	ND		ug/kg	1.5	0.32	1
1,2-Dichloropropane	ND		ug/kg	5.3	0.34	1
Dibromochloromethane	ND		ug/kg	1.5	0.23	1
1,1,2-Trichloroethane	ND		ug/kg	2.3	0.46	1
Tetrachloroethene	ND		ug/kg	1.5	0.21	1
Chlorobenzene	ND		ug/kg	1.5	0.53	1
Trichlorofluoromethane	ND		ug/kg	7.6	0.59	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.17	1
Bromodichloromethane	ND		ug/kg	1.5	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	1.5	0.18	1
1,1-Dichloropropene	ND		ug/kg	7.6	0.21	1
Bromoform	ND		ug/kg	6.0	0.36	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.15	1
Benzene	ND		ug/kg	1.5	0.18	1
Toluene	ND		ug/kg	2.3	0.29	1
Ethylbenzene	ND		ug/kg	1.5	0.19	1
Chloromethane	ND		ug/kg	7.6	0.44	1
Bromomethane	ND		ug/kg	3.0	0.51	1
Vinyl chloride	ND		ug/kg	3.0	0.18	1
Chloroethane	ND		ug/kg	3.0	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.32	1
Trichloroethene	ND		ug/kg	1.5	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	7.6	0.23	1

Project Name: 911 ATLANTIC AVE. **Lab Number:** L1524506

Project Number: 911 ATLANTIC **Report Date:** 10/07/15

SAMPLE RESULTS

Lab ID: L1524506-01 Date Collected: 09/29/15 08:50

Client ID: SB-1 Date Received: 09/30/15

Sample Location: BROOKLYN Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	7.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	7.6	0.21	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.13	1
p/m-Xylene	ND		ug/kg	3.0	0.30	1
o-Xylene	ND		ug/kg	3.0	0.26	1
Xylenes, Total	ND		ug/kg	3.0	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.22	1
Dibromomethane	ND		ug/kg	15	0.25	1
Styrene	ND		ug/kg	3.0	0.61	1
Dichlorodifluoromethane	ND		ug/kg	15	0.29	1
Acetone	ND		ug/kg	15	1.6	1
Carbon disulfide	ND		ug/kg	15	1.7	1
2-Butanone	ND		ug/kg	15	0.41	1
Vinyl acetate	ND		ug/kg	15	0.20	1
4-Methyl-2-pentanone	ND		ug/kg	15	0.37	1
1,2,3-Trichloropropane	ND		ug/kg	15	0.24	1
2-Hexanone	ND		ug/kg	15	1.0	1
Bromochloromethane	ND		ug/kg	7.6	0.42	1
2,2-Dichloropropane	ND		ug/kg	7.6	0.34	1
1,2-Dibromoethane	ND		ug/kg	6.0	0.26	1
1,3-Dichloropropane	ND		ug/kg	7.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	0.48	1
Bromobenzene	ND		ug/kg	7.6	0.31	1
n-Butylbenzene	ND		ug/kg	1.5	0.17	1
sec-Butylbenzene	ND		ug/kg	1.5	0.18	1
tert-Butylbenzene	ND		ug/kg	7.6	0.20	1
o-Chlorotoluene	ND		ug/kg	7.6	0.24	1
p-Chlorotoluene	ND		ug/kg	7.6	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.6	0.60	1
Hexachlorobutadiene	ND		ug/kg	7.6	0.34	1
Isopropylbenzene	ND		ug/kg	1.5	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.19	1
Naphthalene	ND		ug/kg	7.6	0.21	1
Acrylonitrile	ND		ug/kg	15	0.78	1
n-Propylbenzene	ND		ug/kg	1.5	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.6	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.6	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.6	0.22	1

Project Name: 911 ATLANTIC AVE. **Lab Number:** L1524506

Project Number: 911 ATLANTIC **Report Date:** 10/07/15

SAMPLE RESULTS

Lab ID: L1524506-01 Date Collected: 09/29/15 08:50

Client ID: SB-1 Date Received: 09/30/15

Sample Location: BROOKLYN Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	7.6	0.21	1
1,4-Dioxane	ND		ug/kg	150	22.	1
p-Diethylbenzene	ND		ug/kg	6.0	0.24	1
p-Ethyltoluene	ND		ug/kg	6.0	0.19	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.0	0.20	1
Ethyl ether	ND		ug/kg	7.6	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.6	0.59	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	105		70-130

Project Name: 911 ATLANTIC AVE. **Lab Number:** L1524506

Project Number: 911 ATLANTIC **Report Date:** 10/07/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/15 09:01
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG828342-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12

Project Name: 911 ATLANTIC AVE. **Lab Number:** L1524506

Project Number: 911 ATLANTIC **Report Date:** 10/07/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/15 09:01
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG828342-3					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylenes, Total	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14
o-Chlorotoluene	ND		ug/kg	5.0	0.16

Project Name: 911 ATLANTIC AVE. **Lab Number:** L1524506

Project Number: 911 ATLANTIC **Report Date:** 10/07/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/15 09:01
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG828342-3					
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,4-Dioxane	ND		ug/kg	100	14.
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG828342-1 WG828342-2								
Methylene chloride	103		105		70-130	2		30
1,1-Dichloroethane	104		102		70-130	2		30
Chloroform	107		110		70-130	3		30
Carbon tetrachloride	122		115		70-130	6		30
1,2-Dichloropropane	102		105		70-130	3		30
Dibromochloromethane	105		113		70-130	7		30
2-Chloroethylvinyl ether	**131**	Q	**142**	Q	70-130	8		30
1,1,2-Trichloroethane	96		102		70-130	6		30
Tetrachloroethene	114		107		70-130	6		30
Chlorobenzene	110		111		70-130	1		30
Trichlorofluoromethane	113		101		70-139	11		30
1,2-Dichloroethane	95		102		70-130	7		30
1,1,1-Trichloroethane	116		110		70-130	5		30
Bromodichloromethane	107		111		70-130	4		30
trans-1,3-Dichloropropene	102		108		70-130	6		30
cis-1,3-Dichloropropene	108		114		70-130	5		30
1,1-Dichloropropene	108		101		70-130	7		30
Bromoform	98		110		70-130	12		30
1,1,2,2-Tetrachloroethane	87		94		70-130	8		30
Benzene	108		107		70-130	1		30
Toluene	108		107		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG828342-1 WG828342-2								
Ethylbenzene	110		108		70-130	2		30
Chloromethane	100		94		52-130	6		30
Bromomethane	94		93		57-147	1		30
Vinyl chloride	88		80		67-130	10		30
Chloroethane	82		77		50-151	6		30
1,1-Dichloroethene	109		102		65-135	7		30
trans-1,2-Dichloroethene	110		107		70-130	3		30
Trichloroethene	112		108		70-130	4		30
1,2-Dichlorobenzene	106		111		70-130	5		30
1,3-Dichlorobenzene	112		115		70-130	3		30
1,4-Dichlorobenzene	110		114		70-130	4		30
Methyl tert butyl ether	107		115		66-130	7		30
p/m-Xylene	112		110		70-130	2		30
o-Xylene	114		113		70-130	1		30
cis-1,2-Dichloroethene	110		109		70-130	1		30
Dibromomethane	100		106		70-130	6		30
Styrene	114		115		70-130	1		30
Dichlorodifluoromethane	110		98		30-146	12		30
Acetone	62		73		54-140	16		30
Carbon disulfide	112		106		59-130	6		30
2-Butanone	**66**	Q	71		70-130	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG828342-1 WG828342-2								
Vinyl acetate	78		87		70-130	11		30
4-Methyl-2-pentanone	80		90		70-130	12		30
1,2,3-Trichloropropane	86		94		68-130	9		30
2-Hexanone	**64**	Q	72		70-130	12		30
Bromochloromethane	108		114		70-130	5		30
2,2-Dichloropropane	117		110		70-130	6		30
1,2-Dibromoethane	97		105		70-130	8		30
1,3-Dichloropropane	97		101		69-130	4		30
1,1,1,2-Tetrachloroethane	114		117		70-130	3		30
Bromobenzene	108		112		70-130	4		30
n-Butylbenzene	112		109		70-130	3		30
sec-Butylbenzene	113		108		70-130	5		30
tert-Butylbenzene	114		111		70-130	3		30
o-Chlorotoluene	111		110		70-130	1		30
p-Chlorotoluene	114		115		70-130	1		30
1,2-Dibromo-3-chloropropane	84		94		68-130	11		30
Hexachlorobutadiene	128		122		67-130	5		30
Isopropylbenzene	111		106		70-130	5		30
p-Isopropyltoluene	116		112		70-130	4		30
Naphthalene	93		103		70-130	10		30
Acrylonitrile	81		94		70-130	15		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVE.

Project Number: 911 ATLANTIC

Lab Number: L1524506

Report Date: 10/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG828342-1 WG828342-2								
Isopropyl Ether	90		93		66-130	3		30
tert-Butyl Alcohol	76		88		70-130	15		30
n-Propylbenzene	110		106		70-130	4		30
1,2,3-Trichlorobenzene	112		121		70-130	8		30
1,2,4-Trichlorobenzene	117		123		70-130	5		30
1,3,5-Trimethylbenzene	114		113		70-130	1		30
1,2,4-Trimethylbenzene	116		116		70-130	0		30
Methyl Acetate	66		75		51-146	13		30
Ethyl Acetate	**68**	Q	78		70-130	14		30
Acrolein	**46**	Q	**53**	Q	70-130	14		30
Cyclohexane	107		95		59-142	12		30
1,4-Dioxane	97		119		65-136	20		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	113		103		50-139	9		30
p-Diethylbenzene	114		111		70-130	3		30
p-Ethyltoluene	110		107		70-130	3		30
1,2,4,5-Tetramethylbenzene	116		117		70-130	1		30
Tetrahydrofuran	68		76		66-130	11		30
Ethyl ether	86		102		67-130	17		30
trans-1,4-Dichloro-2-butene	86		96		70-130	11		30
Methyl cyclohexane	112		100		70-130	11		30
Ethyl-Tert-Butyl-Ether	100		105		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVE.

Project Number: 911 ATLANTIC

Lab Number: L1524506

Report Date: 10/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG828342-1 WG828342-2								
Tertiary-Amyl Methyl Ether	103		110		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		91		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	100		101		70-130

SEMIVOLATILES

Project Name: 911 ATLANTIC AVE.
Lab Number: L1524506
Project Number: 911 ATLANTIC
Report Date: 10/07/15

SAMPLE RESULTS

Lab ID: L1524506-01
Client ID: SB-1
Sample Location: BROOKLYN
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/07/15 10:53
Analyst: RC
Percent Solids: 66%

Date Collected: 09/29/15 08:50
Date Received: 09/30/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/06/15 14:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	200	52.	1
1,2,4-Trichlorobenzene	ND		ug/kg	250	82.	1
Hexachlorobenzene	ND		ug/kg	150	47.	1
Bis(2-chloroethyl)ether	ND		ug/kg	230	70.	1
2-Chloronaphthalene	ND		ug/kg	250	82.	1
1,2-Dichlorobenzene	ND		ug/kg	250	82.	1
1,3-Dichlorobenzene	ND		ug/kg	250	79.	1
1,4-Dichlorobenzene	ND		ug/kg	250	76.	1
3,3'-Dichlorobenzidine	ND		ug/kg	250	67.	1
2,4-Dinitrotoluene	ND		ug/kg	250	54.	1
2,6-Dinitrotoluene	ND		ug/kg	250	64.	1
Fluoranthene	ND		ug/kg	150	46.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	250	76.	1
4-Bromophenyl phenyl ether	ND		ug/kg	250	58.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	300	88.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	270	76.	1
Hexachlorobutadiene	ND		ug/kg	250	71.	1
Hexachlorocyclopentadiene	ND		ug/kg	720	160	1
Hexachloroethane	ND		ug/kg	200	46.	1
Isophorone	ND		ug/kg	230	67.	1
Naphthalene	ND		ug/kg	250	84.	1
Nitrobenzene	ND		ug/kg	230	60.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	200	53.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	250	75.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	250	66.	1
Butyl benzyl phthalate	ND		ug/kg	250	49.	1
Di-n-butylphthalate	ND		ug/kg	250	48.	1
Di-n-octylphthalate	ND		ug/kg	250	62.	1
Diethyl phthalate	ND		ug/kg	250	53.	1
Dimethyl phthalate	ND		ug/kg	250	64.	1

Project Name: 911 ATLANTIC AVE. **Lab Number:** L1524506

Project Number: 911 ATLANTIC **Report Date:** 10/07/15

SAMPLE RESULTS

Lab ID: L1524506-01 Date Collected: 09/29/15 08:50

Client ID: SB-1 Date Received: 09/30/15

Sample Location: BROOKLYN Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	150	49.	1
Benzo(a)pyrene	ND		ug/kg	200	62.	1
Benzo(b)fluoranthene	ND		ug/kg	150	51.	1
Benzo(k)fluoranthene	ND		ug/kg	150	48.	1
Chrysene	ND		ug/kg	150	49.	1
Acenaphthylene	ND		ug/kg	200	47.	1
Anthracene	ND		ug/kg	150	42.	1
Benzo(ghi)perylene	ND		ug/kg	200	52.	1
Fluorene	ND		ug/kg	250	72.	1
Phenanthrene	ND		ug/kg	150	49.	1
Dibenzo(a,h)anthracene	ND		ug/kg	150	49.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	200	56.	1
Pyrene	ND		ug/kg	150	49.	1
Biphenyl	ND		ug/kg	570	83.	1
4-Chloroaniline	ND		ug/kg	250	66.	1
2-Nitroaniline	ND		ug/kg	250	71.	1
3-Nitroaniline	ND		ug/kg	250	69.	1
4-Nitroaniline	ND		ug/kg	250	68.	1
Dibenzofuran	ND		ug/kg	250	84.	1
2-Methylnaphthalene	ND		ug/kg	300	80.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	250	78.	1
Acetophenone	ND		ug/kg	250	78.	1
2,4,6-Trichlorophenol	ND		ug/kg	150	47.	1
P-Chloro-M-Cresol	ND		ug/kg	250	73.	1
2-Chlorophenol	ND		ug/kg	250	76.	1
2,4-Dichlorophenol	ND		ug/kg	230	82.	1
2,4-Dimethylphenol	ND		ug/kg	250	75.	1
2-Nitrophenol	ND		ug/kg	540	78.	1
4-Nitrophenol	ND		ug/kg	350	82.	1
2,4-Dinitrophenol	ND		ug/kg	1200	340	1
4,6-Dinitro-o-cresol	ND		ug/kg	650	92.	1
Pentachlorophenol	ND		ug/kg	200	54.	1
Phenol	ND		ug/kg	250	74.	1
2-Methylphenol	ND		ug/kg	250	81.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	360	82.	1
2,4,5-Trichlorophenol	ND		ug/kg	250	82.	1
Benzoic Acid	ND		ug/kg	820	250	1
Benzyl Alcohol	ND		ug/kg	250	77.	1
Carbazole	ND		ug/kg	250	54.	1

Project Name: 911 ATLANTIC AVE. **Lab Number:** L1524506

Project Number: 911 ATLANTIC **Report Date:** 10/07/15

SAMPLE RESULTS

Lab ID: L1524506-01 Date Collected: 09/29/15 08:50

Client ID: SB-1 Date Received: 09/30/15

Sample Location: BROOKLYN Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	78		18-120

Project Name: 911 ATLANTIC AVE. **Lab Number:** L1524506

Project Number: 911 ATLANTIC **Report Date:** 10/07/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/07/15 09:37
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 10/06/15 14:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG828318-1					
Acenaphthene	ND		ug/kg	130	33.
Benzidine	ND		ug/kg	530	130
n-Nitrosodimethylamine	ND		ug/kg	320	52.
1,2,4-Trichlorobenzene	ND		ug/kg	160	53.
Hexachlorobenzene	ND		ug/kg	97	30.
Bis(2-chloroethyl)ether	ND		ug/kg	140	45.
2-Chloronaphthalene	ND		ug/kg	160	53.
1,2-Dichlorobenzene	ND		ug/kg	160	53.
1,3-Dichlorobenzene	ND		ug/kg	160	51.
1,4-Dichlorobenzene	ND		ug/kg	160	49.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	41.
Fluoranthene	ND		ug/kg	97	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	49.
4-Bromophenyl phenyl ether	ND		ug/kg	160	37.
Azobenzene	ND		ug/kg	160	43.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	460	100
Hexachloroethane	ND		ug/kg	130	29.
Isophorone	ND		ug/kg	140	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	140	38.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	48.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	42.
Butyl benzyl phthalate	ND		ug/kg	160	32.

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/07/15 09:37
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 10/06/15 14:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG828318-1					
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	97	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	33.
Benzo(k)fluoranthene	ND		ug/kg	97	31.
Chrysene	ND		ug/kg	97	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	97	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	46.
Phenanthrene	ND		ug/kg	97	32.
Dibenzo(a,h)anthracene	ND		ug/kg	97	31.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	97	31.
Biphenyl	ND		ug/kg	370	53.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	54.
2-Methylnaphthalene	ND		ug/kg	190	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	97	30.
P-Chloro-M-Cresol	ND		ug/kg	160	47.
2-Chlorophenol	ND		ug/kg	160	49.

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/07/15 09:37
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 10/06/15 14:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG828318-1					
2,4-Dichlorophenol	ND		ug/kg	140	52.
2,4-Dimethylphenol	ND		ug/kg	160	48.
2-Nitrophenol	ND		ug/kg	350	50.
4-Nitrophenol	ND		ug/kg	230	52.
2,4-Dinitrophenol	ND		ug/kg	780	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	59.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	52.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	53.
2,4,5-Trichlorophenol	ND		ug/kg	160	52.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.
Benzaldehyde	ND		ug/kg	210	65.
Caprolactam	ND		ug/kg	160	45.
Atrazine	ND		ug/kg	130	37.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	28.

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/07/15 09:37
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 10/06/15 14:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG828318-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	89		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG828318-2 WG828318-3								
Acenaphthene	84		91		31-137	8		50
Benzidine	53		58		10-66	9		50
n-Nitrosodimethylamine	65		71		22-100	9		50
1,2,4-Trichlorobenzene	78		80		38-107	3		50
Hexachlorobenzene	92		97		40-140	5		50
Bis(2-chloroethyl)ether	73		76		40-140	4		50
2-Chloronaphthalene	86		89		40-140	3		50
1,2-Dichlorobenzene	69		74		40-140	7		50
1,3-Dichlorobenzene	65		70		40-140	7		50
1,4-Dichlorobenzene	66		70		28-104	6		50
3,3'-Dichlorobenzidine	84		87		40-140	4		50
2,4-Dinitrotoluene	**96**	Q	**100**	Q	28-89	4		50
2,6-Dinitrotoluene	97		100		40-140	3		50
Fluoranthene	99		102		40-140	3		50
4-Chlorophenyl phenyl ether	91		98		40-140	7		50
4-Bromophenyl phenyl ether	97		104		40-140	7		50
Azobenzene	97		102		40-140	5		50
Bis(2-chloroisopropyl)ether	72		74		40-140	3		50
Bis(2-chloroethoxy)methane	82		84		40-117	2		50
Hexachlorobutadiene	78		79		40-140	1		50
Hexachlorocyclopentadiene	78		78		40-140	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG828318-2 WG828318-3								
Hexachloroethane	68		73		40-140	7		50
Isophorone	86		91		40-140	6		50
Naphthalene	77		79		40-140	3		50
Nitrobenzene	84		84		40-140	0		50
NitrosoDiPhenylAmine(NDPA)/DPA	97		101		36-157	4		50
n-Nitrosodi-n-propylamine	85		89		32-121	5		50
Bis(2-Ethylhexyl)phthalate	106		109		40-140	3		50
Butyl benzyl phthalate	101		103		40-140	2		50
Di-n-butylphthalate	104		108		40-140	4		50
Di-n-octylphthalate	106		108		40-140	2		50
Diethyl phthalate	98		103		40-140	5		50
Dimethyl phthalate	95		100		40-140	5		50
Benzo(a)anthracene	100		103		40-140	3		50
Benzo(a)pyrene	94		97		40-140	3		50
Benzo(b)fluoranthene	101		106		40-140	5		50
Benzo(k)fluoranthene	100		103		40-140	3		50
Chrysene	93		94		40-140	1		50
Acenaphthylene	92		96		40-140	4		50
Anthracene	99		103		40-140	4		50
Benzo(ghi)perylene	91		95		40-140	4		50
Fluorene	91		96		40-140	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVE.

Project Number: 911 ATLANTIC

Lab Number: L1524506

Report Date: 10/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG828318-2 WG828318-3								
Phenanthrene	91		95		40-140	4		50
Dibenzo(a,h)anthracene	95		99		40-140	4		50
Indeno(1,2,3-cd)Pyrene	86		91		40-140	6		50
Pyrene	97		99		35-142	2		50
Biphenyl	85		91		54-104	7		50
4-Chloroaniline	86		91		40-140	6		50
2-Nitroaniline	99		102		47-134	3		50
3-Nitroaniline	88		95		26-129	8		50
4-Nitroaniline	101		105		41-125	4		50
Dibenzofuran	87		93		40-140	7		50
2-Methylnaphthalene	83		84		40-140	1		50
1,2,4,5-Tetrachlorobenzene	80		85		40-117	6		50
Acetophenone	82		85		14-144	4		50
2,4,6-Trichlorophenol	99		103		30-130	4		50
P-Chloro-M-Cresol	99		102		26-103	3		50
2-Chlorophenol	78		80		25-102	3		50
2,4-Dichlorophenol	91		94		30-130	3		50
2,4-Dimethylphenol	86		89		30-130	3		50
2-Nitrophenol	81		87		30-130	7		50
4-Nitrophenol	103		105		11-114	2		50
2,4-Dinitrophenol	75		70		4-130	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVE.

Project Number: 911 ATLANTIC

Lab Number: L1524506

Report Date: 10/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG828318-2 WG828318-3								
4,6-Dinitro-o-cresol	89		91		10-130	2		50
Pentachlorophenol	85		87		17-109	2		50
Phenol	79		82		26-90	4		50
2-Methylphenol	83		86		30-130.	4		50
3-Methylphenol/4-Methylphenol	85		90		30-130	6		50
2,4,5-Trichlorophenol	98		101		30-130	3		50
Benzoic Acid	54		43		10-66	23		50
Benzyl Alcohol	83		86		40-140	4		50
Carbazole	98		102		54-128	4		50
Benzaldehyde	69		72		40-140	4		50
Caprolactam	110		112		15-130	2		50
Atrazine	102		107		40-140	5		50
2,3,4,6-Tetrachlorophenol	94		99		40-140	5		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	76		77		25-120
Phenol-d6	80		81		10-120
Nitrobenzene-d5	83		85		23-120
2-Fluorobiphenyl	84		87		30-120
2,4,6-Tribromophenol	95		98		10-136
4-Terphenyl-d14	93		94		18-120

PCBS

Project Name: 911 ATLANTIC AVE.
Lab Number: L1524506
Project Number: 911 ATLANTIC
Report Date: 10/07/15

SAMPLE RESULTS

Lab ID:	L1524506-01	Date Collected:	09/29/15 08:50
Client ID:	SB-1	Date Received:	09/30/15
Sample Location:	BROOKLYN	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	10/03/15 08:55
Analytical Date:	10/05/15 00:54	Cleanup Method:	EPA 3665A
Analyst:	JW	Cleanup Date:	10/04/15
Percent Solids:	66%	Cleanup Method:	EPA 3660B
		Cleanup Date:	10/04/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	48.9	3.86	1	A
Aroclor 1221	ND		ug/kg	48.9	4.51	1	A
Aroclor 1232	ND		ug/kg	48.9	5.73	1	A
Aroclor 1242	ND		ug/kg	48.9	5.99	1	A
Aroclor 1248	ND		ug/kg	48.9	4.13	1	A
Aroclor 1254	ND		ug/kg	48.9	4.02	1	A
Aroclor 1260	ND		ug/kg	48.9	3.73	1	A
Aroclor 1262	ND		ug/kg	48.9	2.43	1	A
Aroclor 1268	ND		ug/kg	48.9	7.09	1	A
PCBs, Total	ND		ug/kg	48.9	2.43	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 911 ATLANTIC AVE.

Project Number: 911 ATLANTIC

Lab Number: L1524506

Report Date: 10/07/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/04/15 22:55
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 10/03/15 08:31
Cleanup Method: EPA 3665A
Cleanup Date: 10/04/15
Cleanup Method: EPA 3660B
Cleanup Date: 10/04/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG827539-1						
Aroclor 1016	ND		ug/kg	31.7	2.50	A
Aroclor 1221	ND		ug/kg	31.7	2.92	A
Aroclor 1232	ND		ug/kg	31.7	3.71	A
Aroclor 1242	ND		ug/kg	31.7	3.88	A
Aroclor 1248	ND		ug/kg	31.7	2.67	A
Aroclor 1254	ND		ug/kg	31.7	2.60	A
Aroclor 1260	ND		ug/kg	31.7	2.41	A
Aroclor 1262	ND		ug/kg	31.7	1.57	A
Aroclor 1268	ND		ug/kg	31.7	4.59	A
PCBs, Total	ND		ug/kg	31.7	1.57	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	77		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVE.

Project Number: 911 ATLANTIC

Lab Number: L1524506

Report Date: 10/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG827539-2 WG827539-3									
Aroclor 1016	93		94		40-140	1		50	A
Aroclor 1260	90		92		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		88		30-150	A
Decachlorobiphenyl	91		92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		90		30-150	B
Decachlorobiphenyl	92		93		30-150	B

PESTICIDES

Project Name: 911 ATLANTIC AVE.
Lab Number: L1524506
Project Number: 911 ATLANTIC
Report Date: 10/07/15

SAMPLE RESULTS

Lab ID: L1524506-01
Client ID: SB-1
Sample Location: BROOKLYN
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/05/15 01:18
Analyst: KE
Percent Solids: 66%

Date Collected: 09/29/15 08:50
Date Received: 09/30/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/03/15 04:02
Cleanup Method: EPA 3620B
Cleanup Date: 10/04/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.40	0.469	1	A
Lindane	ND		ug/kg	0.998	0.446	1	A
Alpha-BHC	ND		ug/kg	0.998	0.283	1	A
Beta-BHC	ND		ug/kg	2.40	0.908	1	A
Heptachlor	ND		ug/kg	1.20	0.537	1	A
Aldrin	ND		ug/kg	2.40	0.843	1	A
Heptachlor epoxide	ND		ug/kg	4.49	1.35	1	A
Endrin	ND		ug/kg	0.998	0.409	1	A
Endrin ketone	ND		ug/kg	2.40	0.617	1	A
Dieldrin	ND		ug/kg	1.50	0.748	1	A
4,4'-DDE	ND		ug/kg	2.40	0.554	1	A
4,4'-DDD	ND		ug/kg	2.40	0.854	1	A
4,4'-DDT	ND		ug/kg	4.49	1.93	1	A
Endosulfan I	ND		ug/kg	2.40	0.566	1	A
Endosulfan II	ND		ug/kg	2.40	0.800	1	A
Endosulfan sulfate	ND		ug/kg	0.998	0.475	1	A
Methoxychlor	ND		ug/kg	4.49	1.40	1	A
Toxaphene	ND		ug/kg	44.9	12.6	1	A
cis-Chlordane	ND		ug/kg	2.99	0.834	1	A
trans-Chlordane	ND		ug/kg	2.99	0.790	1	A
Chlordane	ND		ug/kg	19.4	7.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	75		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	63		30-150	A

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/04/15 20:37
Analyst: KE

Extraction Method: EPA 3546
Extraction Date: 10/03/15 03:49
Cleanup Method: EPA 3620B
Cleanup Date: 10/04/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG827518-1						
Delta-BHC	ND		ug/kg	1.52	0.298	A
Lindane	ND		ug/kg	0.634	0.283	A
Alpha-BHC	ND		ug/kg	0.634	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.577	A
Heptachlor	ND		ug/kg	0.761	0.341	A
Aldrin	ND		ug/kg	1.52	0.536	A
Heptachlor epoxide	ND		ug/kg	2.85	0.856	A
Endrin	ND		ug/kg	0.634	0.260	A
Endrin ketone	ND		ug/kg	1.52	0.392	A
Dieldrin	ND		ug/kg	0.951	0.476	A
4,4'-DDE	ND		ug/kg	1.52	0.352	A
4,4'-DDD	ND		ug/kg	1.52	0.543	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.360	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.634	0.302	A
Methoxychlor	ND		ug/kg	2.85	0.888	A
Toxaphene	ND		ug/kg	28.5	7.99	A
cis-Chlordane	ND		ug/kg	1.90	0.530	A
trans-Chlordane	ND		ug/kg	1.90	0.502	A
Chlordane	ND		ug/kg	12.4	5.04	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	32		30-150	B
Decachlorobiphenyl	39		30-150	B
2,4,5,6-Tetrachloro-m-xylene	35		30-150	A
Decachlorobiphenyl	31		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVE.

Project Number: 911 ATLANTIC

Lab Number: L1524506

Report Date: 10/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG827518-2 WG827518-3									
Delta-BHC	92		97		30-150	5		30	A
Lindane	88		94		30-150	7		30	A
Alpha-BHC	92		98		30-150	6		30	A
Beta-BHC	88		90		30-150	2		30	A
Heptachlor	88		104		30-150	17		30	A
Aldrin	92		96		30-150	4		30	A
Heptachlor epoxide	79		92		30-150	15		30	A
Endrin	102		107		30-150	5		30	A
Endrin ketone	89		90		30-150	1		30	A
Dieldrin	97		101		30-150	4		30	A
4,4'-DDE	92		98		30-150	6		30	A
4,4'-DDD	93		97		30-150	4		30	A
4,4'-DDT	101		105		30-150	4		30	A
Endosulfan I	94		99		30-150	5		30	A
Endosulfan II	96		98		30-150	2		30	A
Endosulfan sulfate	81		85		30-150	5		30	A
Methoxychlor	88		91		30-150	3		30	A
cis-Chlordane	86		93		30-150	8		30	A
trans-Chlordane	86		98		30-150	13		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVE.

Project Number: 911 ATLANTIC

Lab Number: L1524506

Report Date: 10/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG827518-2 WG827518-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		90		30-150	B
Decachlorobiphenyl	103		102		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		94		30-150	A
Decachlorobiphenyl	82		77		30-150	A

METALS

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC
Lab Number: L1524506
Report Date: 10/07/15

SAMPLE RESULTS

Lab ID: L1524506-01
Client ID: SB-1
Sample Location: BROOKLYN
Matrix: Soil
Percent Solids: 66%

Date Collected: 09/29/15 08:50
Date Received: 09/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	3000		mg/kg	11	2.2	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	5.6	0.90	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Arsenic, Total	1.2		mg/kg	1.1	0.22	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Barium, Total	18		mg/kg	1.1	0.34	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Beryllium, Total	0.15	J	mg/kg	0.56	0.11	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	1.1	0.08	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Calcium, Total	1400		mg/kg	11	3.4	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Chromium, Total	14		mg/kg	1.1	0.22	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Cobalt, Total	3.6		mg/kg	2.2	0.56	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Copper, Total	11		mg/kg	1.1	0.22	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Iron, Total	8700		mg/kg	5.6	2.2	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Lead, Total	0.79	J	mg/kg	5.6	0.22	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Magnesium, Total	4100		mg/kg	11	1.1	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Manganese, Total	120		mg/kg	1.1	0.22	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.10	0.02	1	10/01/15 09:40	10/01/15 12:03	EPA 7471B	1,7471B	DB
Nickel, Total	34		mg/kg	2.8	0.45	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Potassium, Total	860		mg/kg	280	45.	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	2.2	0.34	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	1.1	0.22	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Sodium, Total	220		mg/kg	220	34.	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	2.2	0.45	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Vanadium, Total	19		mg/kg	1.1	0.11	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH
Zinc, Total	21		mg/kg	5.6	0.79	2	10/01/15 09:45	10/06/15 05:14	EPA 3050B	1,6010C	JH

Project Name: 911 ATLANTIC AVE. **Lab Number:** L1524506

Project Number: 911 ATLANTIC **Report Date:** 10/07/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG826698-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	10/01/15 09:40	10/01/15 11:32	1,7471B	DB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG826802-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Antimony, Total	ND		mg/kg	2.0	0.32	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Arsenic, Total	ND		mg/kg	0.40	0.08	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Barium, Total	ND		mg/kg	0.40	0.12	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Calcium, Total	ND		mg/kg	4.0	1.2	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Chromium, Total	ND		mg/kg	0.40	0.08	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Cobalt, Total	ND		mg/kg	0.80	0.20	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Iron, Total	ND		mg/kg	2.0	0.80	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Lead, Total	ND		mg/kg	2.0	0.08	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Magnesium, Total	ND		mg/kg	4.0	0.40	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Manganese, Total	ND		mg/kg	0.40	0.08	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Nickel, Total	ND		mg/kg	1.0	0.16	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Potassium, Total	ND		mg/kg	100	16.	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Selenium, Total	ND		mg/kg	0.80	0.12	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Sodium, Total	ND		mg/kg	80	12.	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Thallium, Total	ND		mg/kg	0.80	0.16	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Vanadium, Total	ND		mg/kg	0.40	0.04	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH
Zinc, Total	ND		mg/kg	2.0	0.28	1	10/01/15 09:45	10/06/15 05:49	1,6010C	JH

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVE.

Project Number: 911 ATLANTIC

Lab Number: L1524506

Report Date: 10/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG826698-2 SRM Lot Number: D088-540								
Mercury, Total	102		-		72-128	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVE.

Project Number: 911 ATLANTIC

Lab Number: L1524506

Report Date: 10/07/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG826802-2 SRM Lot Number: D088-540					
Aluminum, Total	86	-	48-151	-	
Antimony, Total	131	-	1-208	-	
Arsenic, Total	96	-	79-121	-	
Barium, Total	94	-	83-117	-	
Beryllium, Total	93	-	83-117	-	
Cadmium, Total	90	-	83-117	-	
Calcium, Total	90	-	81-119	-	
Chromium, Total	89	-	80-120	-	
Cobalt, Total	87	-	84-115	-	
Copper, Total	90	-	81-118	-	
Iron, Total	96	-	45-155	-	
Lead, Total	83	-	81-117	-	
Magnesium, Total	88	-	76-124	-	
Manganese, Total	88	-	81-118	-	
Nickel, Total	89	-	83-117	-	
Potassium, Total	96	-	71-129	-	
Selenium, Total	97	-	78-122	-	
Silver, Total	93	-	75-124	-	
Sodium, Total	95	-	72-127	-	
Thallium, Total	90	-	80-120	-	
Vanadium, Total	92	-	78-122	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVE.

Project Number: 911 ATLANTIC

Lab Number: L1524506

Report Date: 10/07/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG826802-2 SRM Lot Number: D088-540					
Zinc, Total	88	-	82-118	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG826698-4 QC Sample: L1524313-01 Client ID: MS Sample												
Mercury, Total	ND	0.159	0.15	94		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG826802-4 QC Sample: L1524506-01 Client ID: SB-1										
Aluminum, Total	3000	239	3900	**377**	Q	-	-	75-125	-	20
Antimony, Total	ND	59.7	50	84		-	-	75-125	-	20
Arsenic, Total	1.2	14.3	15	96		-	-	75-125	-	20
Barium, Total	18.	239	240	93		-	-	75-125	-	20
Beryllium, Total	0.15J	5.97	5.5	92		-	-	75-125	-	20
Cadmium, Total	ND	6.09	5.5	90		-	-	75-125	-	20
Calcium, Total	1400	1190	2800	117		-	-	75-125	-	20
Chromium, Total	14.	23.9	44	**126**	Q	-	-	75-125	-	20
Cobalt, Total	3.6	59.7	55	86		-	-	75-125	-	20
Copper, Total	11.	29.8	40	97		-	-	75-125	-	20
Iron, Total	8700	119	10000	**1090**	Q	-	-	75-125	-	20
Lead, Total	0.79J	60.9	61	100		-	-	75-125	-	20
Magnesium, Total	4100	1190	4400	**25**	Q	-	-	75-125	-	20
Manganese, Total	120	59.7	200	**134**	Q	-	-	75-125	-	20
Nickel, Total	34.	59.7	76	**70**	Q	-	-	75-125	-	20
Potassium, Total	860	1190	2300	120		-	-	75-125	-	20
Selenium, Total	ND	14.3	14	98		-	-	75-125	-	20
Silver, Total	ND	35.8	37	103		-	-	75-125	-	20
Sodium, Total	220	1190	1500	**126**	Q	-	-	75-125	-	20
Thallium, Total	ND	14.3	12	84		-	-	75-125	-	20
Vanadium, Total	19.	59.7	77	97		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG826802-4 QC Sample: L1524506-01 Client ID: SB-1									
Zinc, Total	21.	59.7	73	87	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG826698-3 QC Sample: L1524313-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG826802-3 QC Sample: L1524506-01 Client ID: SB-1						
Aluminum, Total	3000	2900	mg/kg	3		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	1.2	1.8	mg/kg	**40**	Q	20
Barium, Total	18.	18	mg/kg	0		20
Beryllium, Total	0.15J	0.14J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	1400	1400	mg/kg	0		20
Chromium, Total	14.	14	mg/kg	0		20
Cobalt, Total	3.6	3.1	mg/kg	15		20
Copper, Total	11.	11	mg/kg	0		20
Iron, Total	8700	8900	mg/kg	2		20
Lead, Total	0.79J	2.5J	mg/kg	NC		20
Magnesium, Total	4100	2900	mg/kg	**34**	Q	20
Manganese, Total	120	140	mg/kg	15		20
Nickel, Total	34.	20	mg/kg	**52**	Q	20
Potassium, Total	860	810	mg/kg	6		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	220	190J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG826802-3 QC Sample: L1524506-01 Client ID: SB-1					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	19.	19	mg/kg	0	20
Zinc, Total	21.	20	mg/kg	5	20

INORGANICS
&
MISCELLANEOUS

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

SAMPLE RESULTS

Lab ID: L1524506-01
Client ID: SB-1
Sample Location: BROOKLYN
Matrix: Soil

Date Collected: 09/29/15 08:50
Date Received: 09/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	66.1		%	0.100	NA	1	-	10/01/15 03:43	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG826712-1 QC Sample: L1524506-01 Client ID: SB-1						
Solids, Total	66.1	68.5	%	4		20

Project Name: 911 ATLANTIC AVE.
Project Number: 911 ATLANTIC

Lab Number: L1524506
Report Date: 10/07/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1524506-01A	Vial Large Septa unpreserved (4o	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1524506-01B	Glass 250ml/8oz unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	911 ATLANTIC AVE.	**Lab Number:**	L1524506
Project Number:	911 ATLANTIC	**Report Date:**	10/07/15

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	911 ATLANTIC AVE.	**Lab Number:**	L1524506
Project Number:	911 ATLANTIC	**Report Date:**	10/07/15

Data Qualifiers

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	911 ATLANTIC AVE.	**Lab Number:**	L1524506
Project Number:	911 ATLANTIC	**Report Date:**	10/07/15

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide) (soil), Methyl methacrylate (soil), Azobenzene.
EPA 8270D: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 10/1/15

ALPHA Job #: L1524506

Client Information

Client: Tenen Env.
Address: 121 W 27th Street
NY, NY, 10001
Phone: 646-1006-2332
Fax:
Email: mcarroll@tenen-env.com

Project Information

Project Name: 911 Atlantic Ave.
Project Location: Brooklyn
Project # 911 Atlantic
(Use Project name as Project #) [X]
Project Manager: Matt Carroll
ALPHAQuote #:

Turn-Around Time

Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables

[X] ASP-A [ ] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Billing Information

[X] Same as Client Info
PO #

Regulatory Requirement

[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [X] NY CP-51
[ ] NY Restricted Use [ ] Other
[X] NY Unrestricted Use
[ ] NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC	SVOC	Pesticides	PCB's	TAL Metals				Total Bottle
24506-01	SB-1	9/29/15	0850	S	AK	X	X	X	X	X				2

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

Sample Specific Comments

Container Type	G	G	G	G	G				
Preservative	A	A	A	A	A				

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	09/30/15 1300		9-30-15 1300
	9-30-15 1830	Tom Tabin	9-30-15 1831
Tom Tabin	10/1/15 0115		10/1/15 0145

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1524831
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 303 New York City, NY 10001
ATTN:	Matt Carroll
Phone:	(646) 606-2332
Project Name:	911 ATLANTIC AVENUE
Project Number:	911 ATLANTIC AVE
Report Date:	10/12/15

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1524831-01	SB-2	SOIL	911 ATLANTIC AVENUE, BROOKLYN, NY	10/01/15 10:10	10/05/15
L1524831-02	SB-3 (60-62)	SOIL	911 ATLANTIC AVENUE, BROOKLYN, NY	10/02/15 09:15	10/05/15
L1524831-03	TRIP BLANK	WATER	911 ATLANTIC AVENUE, BROOKLYN, NY	10/02/15 00:00	10/02/15

Project Name:	911 ATLANTIC AVENUE	**Lab Number:**	L1524831
Project Number:	911 ATLANTIC AVE	**Report Date:**	10/12/15

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	911 ATLANTIC AVENUE	**Lab Number:**	L1524831
Project Number:	911 ATLANTIC AVE	**Report Date:**	10/12/15

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L1524831-01 and -02: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Metals

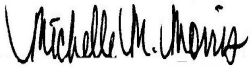
L1524831-01 and -02: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG828106-4 MS recoveries for aluminum (0%), calcium (0%), copper (0%), iron (0%) and magnesium (232%), performed on L1524831-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG828106-4 MS recoveries, performed on L1524831-01, are outside the acceptance criteria for chromium (103%), nickel (80%) and potassium (103%). A post digestion spike was performed and was within acceptance criteria.

The WG828106-3 Laboratory Duplicate RPDs, performed on L1524831-01, are outside the acceptance criteria for aluminum (64%), arsenic (96%), barium (81%), calcium (110%), chromium (74%), cobalt (69%), copper (86%), iron (72%), magnesium (87%), manganese (90%), nickel (98%), potassium (91%), sodium (34%), vanadium (62%) and zinc (64%). The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Michelle M. Morris

Title: Technical Director/Representative Date: 10/12/15

ORGANICS

VOLATILES

Project Name: 911 ATLANTIC AVENUE
Lab Number: L1524831
Project Number: 911 ATLANTIC AVE
Report Date: 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-01
Client ID: SB-2
Sample Location: 911 ATLANTIC AVENUE, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/10/15 20:59
Analyst: MV
Percent Solids: 90%

Date Collected: 10/01/15 10:10
Date Received: 10/05/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.16	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.5	0.32	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.17	1

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1524831

Project Number: 911 ATLANTIC AVE **Report Date:** 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-01 Date Collected: 10/01/15 10:10

Client ID: SB-2 Date Received: 10/05/15

Sample Location: 911 ATLANTIC AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1
p/m-Xylene	ND		ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
Xylenes, Total	ND		ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	3.8	J	ug/kg	11	1.1	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.30	1
Vinyl acetate	ND		ug/kg	11	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
2-Hexanone	ND		ug/kg	11	0.74	1
Bromochloromethane	ND		ug/kg	5.5	0.30	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.14	1
tert-Butylbenzene	ND		ug/kg	5.5	0.15	1
o-Chlorotoluene	ND		ug/kg	5.5	0.18	1
p-Chlorotoluene	ND		ug/kg	5.5	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.44	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.25	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	ND		ug/kg	5.5	0.15	1
Acrylonitrile	ND		ug/kg	11	0.57	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1524831

Project Number: 911 ATLANTIC AVE **Report Date:** 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-01 Date Collected: 10/01/15 10:10

Client ID: SB-2 Date Received: 10/05/15

Sample Location: 911 ATLANTIC AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
p-Diethylbenzene	ND		ug/kg	4.4	0.18	1
p-Ethyltoluene	ND		ug/kg	4.4	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.14	1
Ethyl ether	ND		ug/kg	5.5	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1524831

Project Number: 911 ATLANTIC AVE **Report Date:** 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-02
Client ID: SB-3 (60-62)
Sample Location: 911 ATLANTIC AVENUE, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/10/15 21:27
Analyst: MV
Percent Solids: 88%

Date Collected: 10/02/15 09:15
Date Received: 10/05/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.13	1
Bromodichloromethane	ND		ug/kg	1.1	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.16	1
Bromoform	ND		ug/kg	4.6	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.7	0.33	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.13	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.17	1

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1524831

Project Number: 911 ATLANTIC AVE **Report Date:** 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-02 Date Collected: 10/02/15 09:15

Client ID: SB-3 (60-62) Date Received: 10/05/15

Sample Location: 911 ATLANTIC AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.10	1
p/m-Xylene	ND		ug/kg	2.3	0.22	1
o-Xylene	ND		ug/kg	2.3	0.20	1
Xylenes, Total	ND		ug/kg	2.3	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.19	1
Styrene	ND		ug/kg	2.3	0.46	1
Dichlorodifluoromethane	ND		ug/kg	11	0.22	1
Acetone	4.6	J	ug/kg	11	1.2	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.31	1
Vinyl acetate	ND		ug/kg	11	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
2-Hexanone	ND		ug/kg	11	0.76	1
Bromochloromethane	ND		ug/kg	5.7	0.31	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.7	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.14	1
tert-Butylbenzene	ND		ug/kg	5.7	0.15	1
o-Chlorotoluene	ND		ug/kg	5.7	0.18	1
p-Chlorotoluene	ND		ug/kg	5.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.45	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.26	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	ND		ug/kg	5.7	0.16	1
Acrylonitrile	ND		ug/kg	11	0.58	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.16	1

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1524831

Project Number: 911 ATLANTIC AVE **Report Date:** 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-02 Date Collected: 10/02/15 09:15

Client ID: SB-3 (60-62) Date Received: 10/05/15

Sample Location: 911 ATLANTIC AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
p-Diethylbenzene	ND		ug/kg	4.6	0.18	1
p-Ethyltoluene	ND		ug/kg	4.6	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.15	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: 911 ATLANTIC AVENUE
Lab Number: L1524831
Project Number: 911 ATLANTIC AVE
Report Date: 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-03
Client ID: TRIP BLANK
Sample Location: 911 ATLANTIC AVENUE, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/09/15 15:33
Analyst: PD

Date Collected: 10/02/15 00:00
Date Received: 10/02/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1524831

Project Number: 911 ATLANTIC AVE **Report Date:** 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-03 Date Collected: 10/02/15 00:00

Client ID: TRIP BLANK Date Received: 10/02/15

Sample Location: 911 ATLANTIC AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1524831

Project Number: 911 ATLANTIC AVE **Report Date:** 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-03 Date Collected: 10/02/15 00:00

Client ID: TRIP BLANK Date Received: 10/02/15

Sample Location: 911 ATLANTIC AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	90		70-130

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE
Lab Number: L1524831
Report Date: 10/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/09/15 09:42
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG829538-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE
Lab Number: L1524831
Report Date: 10/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/09/15 09:42
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG829538-3					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/09/15 09:42
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG829538-3					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	41.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	90		70-130

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE
Lab Number: L1524831
Report Date: 10/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/10/15 17:24
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG829824-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE
Lab Number: L1524831
Report Date: 10/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/10/15 17:24
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG829824-3					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylenes, Total	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14
o-Chlorotoluene	ND		ug/kg	5.0	0.16

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/10/15 17:24
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG829824-3					
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,4-Dioxane	ND		ug/kg	100	14.
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG829538-1 WG829538-2								
Methylene chloride	102		102		70-130	0		20
1,1-Dichloroethane	108		109		70-130	1		20
Chloroform	102		102		70-130	0		20
2-Chloroethylvinyl ether	113		115		70-130	2		20
Carbon tetrachloride	92		93		63-132	1		20
1,2-Dichloropropane	108		109		70-130	1		20
Dibromochloromethane	88		86		63-130	2		20
1,1,2-Trichloroethane	105		105		70-130	0		20
Tetrachloroethene	90		92		70-130	2		20
Chlorobenzene	101		101		75-130	0		20
Trichlorofluoromethane	105		107		62-150	2		20
1,2-Dichloroethane	101		101		70-130	0		20
1,1,1-Trichloroethane	95		97		67-130	2		20
Bromodichloromethane	95		93		67-130	2		20
trans-1,3-Dichloropropene	100		99		70-130	1		20
cis-1,3-Dichloropropene	99		99		70-130	0		20
1,1-Dichloropropene	106		109		70-130	3		20
Bromoform	88		86		54-136	2		20
1,1,2,2-Tetrachloroethane	111		113		67-130	2		20
Benzene	106		106		70-130	0		20
Toluene	102		102		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG829538-1 WG829538-2								
Ethylbenzene	107		108		70-130	1		20
Chloromethane	64		64		64-130	0		20
Bromomethane	92		95		39-139	3		20
Vinyl chloride	120		123		55-140	2		20
Chloroethane	**153**	Q	**161**	Q	55-138	5		20
1,1-Dichloroethene	100		103		61-145	3		20
trans-1,2-Dichloroethene	98		100		70-130	2		20
Trichloroethene	101		103		70-130	2		20
1,2-Dichlorobenzene	98		98		70-130	0		20
1,3-Dichlorobenzene	99		99		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	99		99		63-130	0		20
p/m-Xylene	103		104		70-130	1		20
o-Xylene	103		104		70-130	1		20
cis-1,2-Dichloroethene	98		98		70-130	0		20
Dibromomethane	96		96		70-130	0		20
1,2,3-Trichloropropane	115		121		64-130	5		20
Acrylonitrile	99		104		70-130	5		20
Isopropyl Ether	113		114		70-130	1		20
tert-Butyl Alcohol	71		84		70-130	17		20
Styrene	106		105		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVENUE

Project Number: 911 ATLANTIC AVE

Lab Number: L1524831

Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG829538-1 WG829538-2								
Dichlorodifluoromethane	90		93		36-147	3		20
Acetone	113		118		58-148	4		20
Carbon disulfide	105		104		51-130	1		20
2-Butanone	110		112		63-138	2		20
Vinyl acetate	108		108		70-130	0		20
4-Methyl-2-pentanone	93		96		59-130	3		20
2-Hexanone	99		104		57-130	5		20
Acrolein	125		131		40-160	5		20
Bromochloromethane	98		96		70-130	2		20
2,2-Dichloropropane	100		101		63-133	1		20
1,2-Dibromoethane	95		94		70-130	1		20
1,3-Dichloropropane	107		107		70-130	0		20
1,1,1,2-Tetrachloroethane	92		90		64-130	2		20
Bromobenzene	95		97		70-130	2		20
n-Butylbenzene	120		117		53-136	3		20
sec-Butylbenzene	116		116		70-130	0		20
tert-Butylbenzene	106		107		70-130	1		20
o-Chlorotoluene	108		120		70-130	11		20
p-Chlorotoluene	112		113		70-130	1		20
1,2-Dibromo-3-chloropropane	106		103		41-144	3		20
Hexachlorobutadiene	103		94		63-130	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG829538-1 WG829538-2								
Isopropylbenzene	112		114		70-130	2		20
p-Isopropyltoluene	109		109		70-130	0		20
Naphthalene	95		94		70-130	1		20
n-Propylbenzene	123		125		69-130	2		20
1,2,3-Trichlorobenzene	95		92		70-130	3		20
1,2,4-Trichlorobenzene	94		91		70-130	3		20
1,3,5-Trimethylbenzene	110		111		64-130	1		20
1,2,4-Trimethylbenzene	108		108		70-130	0		20
Methyl Acetate	109		111		70-130	2		20
Ethyl Acetate	101		101		70-130	0		20
Cyclohexane	116		120		70-130	3		20
Ethyl-Tert-Butyl-Ether	105		105		70-130	0		20
Tertiary-Amyl Methyl Ether	100		100		66-130	0		20
1,4-Dioxane	**46**	Q	79		56-162	**53**	Q	20
1,1,2-Trichloro-1,2,2-Trifluoroethane	104		107		70-130	3		20
p-Diethylbenzene	106		104		70-130	2		20
p-Ethyltoluene	114		115		70-130	1		20
1,2,4,5-Tetramethylbenzene	103		100		70-130	3		20
Ethyl ether	103		104		59-134	1		20
trans-1,4-Dichloro-2-butene	94		97		70-130	3		20
Methyl cyclohexane	109		108		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG829538-1 WG829538-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	103		104		70-130
Dibromofluoromethane	96		95		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG829824-1 WG829824-2								
Methylene chloride	99		100		70-130	1		30
1,1-Dichloroethane	101		100		70-130	1		30
Chloroform	100		100		70-130	0		30
Carbon tetrachloride	99		100		70-130	1		30
1,2-Dichloropropane	102		102		70-130	0		30
Dibromochloromethane	97		96		70-130	1		30
2-Chloroethylvinyl ether	**308**	Q	**300**	Q	70-130	3		30
1,1,2-Trichloroethane	101		100		70-130	1		30
Tetrachloroethene	98		97		70-130	1		30
Chlorobenzene	98		96		70-130	2		30
Trichlorofluoromethane	101		101		70-139	0		30
1,2-Dichloroethane	101		100		70-130	1		30
1,1,1-Trichloroethane	100		100		70-130	0		30
Bromodichloromethane	99		99		70-130	0		30
trans-1,3-Dichloropropene	100		98		70-130	2		30
cis-1,3-Dichloropropene	100		99		70-130	1		30
1,1-Dichloropropene	101		101		70-130	0		30
Bromoform	97		95		70-130	2		30
1,1,2,2-Tetrachloroethane	101		98		70-130	3		30
Benzene	98		97		70-130	1		30
Toluene	96		95		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG829824-1 WG829824-2								
Ethylbenzene	100		98		70-130	2		30
Chloromethane	103		106		52-130	3		30
Bromomethane	103		102		57-147	1		30
Vinyl chloride	85		88		67-130	3		30
Chloroethane	117		114		50-151	3		30
1,1-Dichloroethene	99		102		65-135	3		30
trans-1,2-Dichloroethene	96		96		70-130	0		30
Trichloroethene	99		99		70-130	0		30
1,2-Dichlorobenzene	104		101		70-130	3		30
1,3-Dichlorobenzene	100		98		70-130	2		30
1,4-Dichlorobenzene	99		96		70-130	3		30
Methyl tert butyl ether	102		100		66-130	2		30
p/m-Xylene	100		98		70-130	2		30
o-Xylene	101		99		70-130	2		30
cis-1,2-Dichloroethene	100		100		70-130	0		30
Dibromomethane	98		99		70-130	1		30
Styrene	100		99		70-130	1		30
Dichlorodifluoromethane	67		69		30-146	3		30
Acetone	128		115		54-140	11		30
Carbon disulfide	101		93		59-130	8		30
2-Butanone	120		114		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVENUE

Project Number: 911 ATLANTIC AVE

Lab Number: L1524831

Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG829824-1 WG829824-2								
Vinyl acetate	112		109		70-130	3		30
4-Methyl-2-pentanone	104		101		70-130	3		30
1,2,3-Trichloropropane	107		99		68-130	8		30
2-Hexanone	114		106		70-130	7		30
Bromochloromethane	100		97		70-130	3		30
2,2-Dichloropropane	99		99		70-130	0		30
1,2-Dibromoethane	99		96		70-130	3		30
1,3-Dichloropropane	102		99		69-130	3		30
1,1,1,2-Tetrachloroethane	98		98		70-130	0		30
Bromobenzene	97		96		70-130	1		30
n-Butylbenzene	102		103		70-130	1		30
sec-Butylbenzene	102		101		70-130	1		30
tert-Butylbenzene	101		101		70-130	0		30
o-Chlorotoluene	98		97		70-130	1		30
p-Chlorotoluene	99		97		70-130	2		30
1,2-Dibromo-3-chloropropane	105		95		68-130	10		30
Hexachlorobutadiene	108		105		67-130	3		30
Isopropylbenzene	101		101		70-130	0		30
p-Isopropyltoluene	102		101		70-130	1		30
Naphthalene	112		105		70-130	6		30
Acrylonitrile	108		102		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVENUE

Project Number: 911 ATLANTIC AVE

Lab Number: L1524831

Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG829824-1 WG829824-2								
Isopropyl Ether	106		104		66-130	2		30
tert-Butyl Alcohol	115		111		70-130	4		30
n-Propylbenzene	101		100		70-130	1		30
1,2,3-Trichlorobenzene	109		104		70-130	5		30
1,2,4-Trichlorobenzene	111		103		70-130	7		30
1,3,5-Trimethylbenzene	101		99		70-130	2		30
1,2,4-Trimethylbenzene	99		98		70-130	1		30
Methyl Acetate	108		103		51-146	5		30
Ethyl Acetate	104		100		70-130	4		30
Acrolein	96		90		70-130	6		30
Cyclohexane	102		101		59-142	1		30
1,4-Dioxane	136		126		65-136	8		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	109		101		50-139	8		30
p-Diethylbenzene	103		103		70-130	0		30
p-Ethyltoluene	100		99		70-130	1		30
1,2,4,5-Tetramethylbenzene	116		103		70-130	12		30
Tetrahydrofuran	115		113		66-130	2		30
Ethyl ether	116		115		67-130	1		30
trans-1,4-Dichloro-2-butene	104		100		70-130	4		30
Methyl cyclohexane	100		100		70-130	0		30
Ethyl-Tert-Butyl-Ether	104		102		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG829824-1 WG829824-2								
Tertiary-Amyl Methyl Ether	100		98		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		98		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	98		99		70-130

SEMIVOLATILES

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1524831

Project Number: 911 ATLANTIC AVE **Report Date:** 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-01
Client ID: SB-2
Sample Location: 911 ATLANTIC AVENUE, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/08/15 00:10
Analyst: AS
Percent Solids: 90%

Date Collected: 10/01/15 10:10
Date Received: 10/05/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/06/15 13:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	37.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	59.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	51.	1
2-Chloronaphthalene	ND		ug/kg	180	59.	1
1,2-Dichlorobenzene	ND		ug/kg	180	59.	1
1,3-Dichlorobenzene	ND		ug/kg	180	57.	1
1,4-Dichlorobenzene	ND		ug/kg	180	55.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	39.	1
2,6-Dinitrotoluene	ND		ug/kg	180	46.	1
Fluoranthene	ND		ug/kg	110	33.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	55.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	64.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	55.	1
Hexachlorobutadiene	ND		ug/kg	180	51.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	120	1
Hexachloroethane	ND		ug/kg	140	33.	1
Isophorone	ND		ug/kg	160	48.	1
Naphthalene	ND		ug/kg	180	60.	1
Nitrobenzene	ND		ug/kg	160	43.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	38.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	54.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	47.	1
Butyl benzyl phthalate	ND		ug/kg	180	35.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	44.	1
Diethyl phthalate	ND		ug/kg	180	38.	1
Dimethyl phthalate	ND		ug/kg	180	46.	1

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1524831

Project Number: 911 ATLANTIC AVE **Report Date:** 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-01 Date Collected: 10/01/15 10:10

Client ID: SB-2 Date Received: 10/05/15

Sample Location: 911 ATLANTIC AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	110	35.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	36.	1
Benzo(k)fluoranthene	ND		ug/kg	110	34.	1
Chrysene	ND		ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	140	34.	1
Anthracene	ND		ug/kg	110	30.	1
Benzo(ghi)perylene	ND		ug/kg	140	38.	1
Fluorene	ND		ug/kg	180	52.	1
Phenanthrene	ND		ug/kg	110	35.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	35.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	140	40.	1
Pyrene	ND		ug/kg	110	35.	1
Biphenyl	ND		ug/kg	410	60.	1
4-Chloroaniline	ND		ug/kg	180	48.	1
2-Nitroaniline	ND		ug/kg	180	51.	1
3-Nitroaniline	ND		ug/kg	180	50.	1
4-Nitroaniline	ND		ug/kg	180	49.	1
Dibenzofuran	ND		ug/kg	180	60.	1
2-Methylnaphthalene	ND		ug/kg	220	58.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	56.	1
Acetophenone	ND		ug/kg	180	56.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
P-Chloro-M-Cresol	ND		ug/kg	180	52.	1
2-Chlorophenol	ND		ug/kg	180	55.	1
2,4-Dichlorophenol	ND		ug/kg	160	59.	1
2,4-Dimethylphenol	ND		ug/kg	180	54.	1
2-Nitrophenol	ND		ug/kg	390	56.	1
4-Nitrophenol	ND		ug/kg	250	59.	1
2,4-Dinitrophenol	ND		ug/kg	870	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	66.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	58.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	59.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	59.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	39.	1

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1524831

Project Number: 911 ATLANTIC AVE **Report Date:** 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-01 Date Collected: 10/01/15 10:10

Client ID: SB-2 Date Received: 10/05/15

Sample Location: 911 ATLANTIC AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	108		10-136
4-Terphenyl-d14	91		18-120

Project Name: 911 ATLANTIC AVENUE
Lab Number: L1524831
Project Number: 911 ATLANTIC AVE
Report Date: 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-02
Client ID: SB-3 (60-62)
Sample Location: 911 ATLANTIC AVENUE, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/08/15 00:37
Analyst: AS
Percent Solids: 88%

Date Collected: 10/02/15 09:15
Date Received: 10/05/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/06/15 13:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	61.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	52.	1
2-Chloronaphthalene	ND		ug/kg	180	61.	1
1,2-Dichlorobenzene	ND		ug/kg	180	61.	1
1,3-Dichlorobenzene	ND		ug/kg	180	58.	1
1,4-Dichlorobenzene	ND		ug/kg	180	56.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	40.	1
2,6-Dinitrotoluene	ND		ug/kg	180	48.	1
Fluoranthene	ND		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	56.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	65.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	56.	1
Hexachlorobutadiene	ND		ug/kg	180	52.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	49.	1
Naphthalene	ND		ug/kg	180	62.	1
Nitrobenzene	ND		ug/kg	170	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	55.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	49.	1
Butyl benzyl phthalate	ND		ug/kg	180	36.	1
Di-n-butylphthalate	ND		ug/kg	180	36.	1
Di-n-octylphthalate	ND		ug/kg	180	46.	1
Diethyl phthalate	ND		ug/kg	180	39.	1
Dimethyl phthalate	ND		ug/kg	180	47.	1

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1524831

Project Number: 911 ATLANTIC AVE **Report Date:** 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-02 Date Collected: 10/02/15 09:15

Client ID: SB-3 (60-62) Date Received: 10/05/15

Sample Location: 911 ATLANTIC AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	110	36.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	35.	1
Chrysene	ND		ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	180	53.	1
Phenanthrene	ND		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	41.	1
Pyrene	ND		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	420	61.	1
4-Chloroaniline	ND		ug/kg	180	49.	1
2-Nitroaniline	ND		ug/kg	180	52.	1
3-Nitroaniline	ND		ug/kg	180	51.	1
4-Nitroaniline	ND		ug/kg	180	50.	1
Dibenzofuran	ND		ug/kg	180	62.	1
2-Methylnaphthalene	ND		ug/kg	220	59.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	58.	1
Acetophenone	ND		ug/kg	180	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
P-Chloro-M-Cresol	ND		ug/kg	180	54.	1
2-Chlorophenol	ND		ug/kg	180	56.	1
2,4-Dichlorophenol	ND		ug/kg	170	60.	1
2,4-Dimethylphenol	ND		ug/kg	180	55.	1
2-Nitrophenol	ND		ug/kg	400	58.	1
4-Nitrophenol	ND		ug/kg	260	60.	1
2,4-Dinitrophenol	ND		ug/kg	890	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	68.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	55.	1
2-Methylphenol	ND		ug/kg	180	60.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	61.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	60.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	ND		ug/kg	180	40.	1

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1524831

Project Number: 911 ATLANTIC AVE **Report Date:** 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-02 Date Collected: 10/02/15 09:15

Client ID: SB-3 (60-62) Date Received: 10/05/15

Sample Location: 911 ATLANTIC AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	104		10-136
4-Terphenyl-d14	91		18-120

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/07/15 17:00
Analyst: AS

Extraction Method: EPA 3546
Extraction Date: 10/06/15 13:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG828289-1					
Acenaphthene	ND		ug/kg	130	33.
1,2,4-Trichlorobenzene	ND		ug/kg	160	53.
Hexachlorobenzene	ND		ug/kg	97	30.
Bis(2-chloroethyl)ether	ND		ug/kg	140	45.
2-Chloronaphthalene	ND		ug/kg	160	53.
1,2-Dichlorobenzene	ND		ug/kg	160	53.
1,3-Dichlorobenzene	ND		ug/kg	160	51.
1,4-Dichlorobenzene	ND		ug/kg	160	49.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	41.
Fluoranthene	ND		ug/kg	97	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	49.
4-Bromophenyl phenyl ether	ND		ug/kg	160	37.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	460	100
Hexachloroethane	ND		ug/kg	130	29.
Isophorone	ND		ug/kg	140	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	140	38.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	48.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	42.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/07/15 17:00
Analyst: AS

Extraction Method: EPA 3546
Extraction Date: 10/06/15 13:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG828289-1					
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	97	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	33.
Benzo(k)fluoranthene	ND		ug/kg	97	31.
Chrysene	ND		ug/kg	97	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	97	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	46.
Phenanthrene	ND		ug/kg	97	32.
Dibenzo(a,h)anthracene	ND		ug/kg	97	31.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	97	32.
Biphenyl	ND		ug/kg	370	53.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	54.
2-Methylnaphthalene	ND		ug/kg	190	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	97	30.
P-Chloro-M-Cresol	ND		ug/kg	160	47.
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	140	52.
2,4-Dimethylphenol	ND		ug/kg	160	48.
2-Nitrophenol	ND		ug/kg	350	50.

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE
Lab Number: L1524831
Report Date: 10/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/07/15 17:00
Analyst: AS

Extraction Method: EPA 3546
Extraction Date: 10/06/15 13:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG828289-1					
4-Nitrophenol	ND		ug/kg	230	52.
2,4-Dinitrophenol	ND		ug/kg	780	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	59.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	52.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	53.
2,4,5-Trichlorophenol	ND		ug/kg	160	52.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	80		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG828289-2 WG828289-3								
Acenaphthene	67		84		31-137	23		50
1,2,4-Trichlorobenzene	65		81		38-107	22		50
Hexachlorobenzene	70		88		40-140	23		50
Bis(2-chloroethyl)ether	60		76		40-140	24		50
2-Chloronaphthalene	64		81		40-140	23		50
1,2-Dichlorobenzene	58		75		40-140	26		50
1,3-Dichlorobenzene	58		73		40-140	23		50
1,4-Dichlorobenzene	58		73		28-104	23		50
3,3'-Dichlorobenzidine	60		76		40-140	24		50
2,4-Dinitrotoluene	75		**94**	Q	28-89	22		50
2,6-Dinitrotoluene	69		87		40-140	23		50
Fluoranthene	68		86		40-140	23		50
4-Chlorophenyl phenyl ether	68		86		40-140	23		50
4-Bromophenyl phenyl ether	72		89		40-140	21		50
Bis(2-chloroisopropyl)ether	59		75		40-140	24		50
Bis(2-chloroethoxy)methane	62		80		40-117	25		50
Hexachlorobutadiene	65		82		40-140	23		50
Hexachlorocyclopentadiene	107		126		40-140	16		50
Hexachloroethane	59		75		40-140	24		50
Isophorone	62		79		40-140	24		50
Naphthalene	64		80		40-140	22		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG828289-2 WG828289-3								
Nitrobenzene	67		83		40-140	21		50
NitrosoDiPhenylAmine(NDPA)/DPA	69		87		36-157	23		50
n-Nitrosodi-n-propylamine	61		78		32-121	24		50
Bis(2-Ethylhexyl)phthalate	77		94		40-140	20		50
Butyl benzyl phthalate	74		92		40-140	22		50
Di-n-butylphthalate	74		91		40-140	21		50
Di-n-octylphthalate	78		96		40-140	21		50
Diethyl phthalate	67		84		40-140	23		50
Dimethyl phthalate	68		86		40-140	23		50
Benzo(a)anthracene	68		87		40-140	25		50
Benzo(a)pyrene	72		87		40-140	19		50
Benzo(b)fluoranthene	73		88		40-140	19		50
Benzo(k)fluoranthene	70		85		40-140	19		50
Chrysene	68		87		40-140	25		50
Acenaphthylene	65		81		40-140	22		50
Anthracene	71		89		40-140	23		50
Benzo(ghi)perylene	69		89		40-140	25		50
Fluorene	68		85		40-140	22		50
Phenanthrene	68		85		40-140	22		50
Dibenzo(a,h)anthracene	73		94		40-140	25		50
Indeno(1,2,3-cd)Pyrene	68		91		40-140	29		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG828289-2 WG828289-3								
Pyrene	67		86		35-142	25		50
Biphenyl	68		85		54-104	22		50
4-Chloroaniline	55		82		40-140	39		50
2-Nitroaniline	74		91		47-134	21		50
3-Nitroaniline	59		81		26-129	31		50
4-Nitroaniline	70		91		41-125	26		50
Dibenzofuran	67		84		40-140	23		50
2-Methylnaphthalene	65		80		40-140	21		50
1,2,4,5-Tetrachlorobenzene	70		86		40-117	21		50
Acetophenone	64		81		14-144	23		50
2,4,6-Trichlorophenol	79		98		30-130	21		50
P-Chloro-M-Cresol	71		88		26-103	21		50
2-Chlorophenol	66		84		25-102	24		50
2,4-Dichlorophenol	74		92		30-130	22		50
2,4-Dimethylphenol	68		86		30-130	23		50
2-Nitrophenol	75		94		30-130	22		50
4-Nitrophenol	70		86		11-114	21		50
2,4-Dinitrophenol	107		102		4-130	5		50
4,6-Dinitro-o-cresol	98		115		10-130	16		50
Pentachlorophenol	77		86		17-109	11		50
Phenol	58		76		26-90	27		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG828289-2 WG828289-3								
2-Methylphenol	64		81		30-130.	23		50
3-Methylphenol/4-Methylphenol	65		83		30-130	24		50
2,4,5-Trichlorophenol	72		91		30-130	23		50
Benzoic Acid	**82**	Q	50		10-66	48		50
Benzyl Alcohol	62		80		40-140	25		50
Carbazole	70		89		54-128	24		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	64		83		25-120
Phenol-d6	64		84		10-120
Nitrobenzene-d5	67		85		23-120
2-Fluorobiphenyl	67		84		30-120
2,4,6-Tribromophenol	84		101		10-136
4-Terphenyl-d14	68		87		18-120

PCBS

Project Name: 911 ATLANTIC AVENUE
Lab Number: L1524831
Project Number: 911 ATLANTIC AVE
Report Date: 10/12/15

SAMPLE RESULTS

Lab ID:	L1524831-01	Date Collected:	10/01/15 10:10
Client ID:	SB-2	Date Received:	10/05/15
Sample Location:	911 ATLANTIC AVENUE, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	10/06/15 16:46
Analytical Date:	10/07/15 23:59	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	10/07/15
Percent Solids:	90%	Cleanup Method:	EPA 3660B
		Cleanup Date:	10/07/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.5	2.80	1	A
Aroclor 1221	ND		ug/kg	35.5	3.27	1	A
Aroclor 1232	ND		ug/kg	35.5	4.16	1	A
Aroclor 1242	ND		ug/kg	35.5	4.34	1	A
Aroclor 1248	ND		ug/kg	35.5	3.00	1	A
Aroclor 1254	ND		ug/kg	35.5	2.92	1	A
Aroclor 1260	ND		ug/kg	35.5	2.70	1	A
Aroclor 1262	ND		ug/kg	35.5	1.76	1	A
Aroclor 1268	ND		ug/kg	35.5	5.15	1	A
PCBs, Total	ND		ug/kg	35.5	1.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: 911 ATLANTIC AVENUE
Lab Number: L1524831
Project Number: 911 ATLANTIC AVE
Report Date: 10/12/15

SAMPLE RESULTS

Lab ID:	L1524831-02	Date Collected:	10/02/15 09:15
Client ID:	SB-3 (60-62)	Date Received:	10/05/15
Sample Location:	911 ATLANTIC AVENUE, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	10/06/15 16:46
Analytical Date:	10/08/15 00:15	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	10/07/15
Percent Solids:	88%	Cleanup Method:	EPA 3660B
		Cleanup Date:	10/07/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.0	2.84	1	A
Aroclor 1221	ND		ug/kg	36.0	3.32	1	A
Aroclor 1232	ND		ug/kg	36.0	4.22	1	A
Aroclor 1242	ND		ug/kg	36.0	4.40	1	A
Aroclor 1248	ND		ug/kg	36.0	3.04	1	A
Aroclor 1254	ND		ug/kg	36.0	2.96	1	A
Aroclor 1260	ND		ug/kg	36.0	2.74	1	A
Aroclor 1262	ND		ug/kg	36.0	1.78	1	A
Aroclor 1268	ND		ug/kg	36.0	5.22	1	A
PCBs, Total	ND		ug/kg	36.0	1.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/08/15 03:13
Analyst: JT

Extraction Method: EPA 3546
Extraction Date: 10/06/15 16:30
Cleanup Method: EPA 3665A
Cleanup Date: 10/07/15
Cleanup Method: EPA 3660B
Cleanup Date: 10/07/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG828385-1						
Aroclor 1016	ND		ug/kg	31.7	2.51	A
Aroclor 1221	ND		ug/kg	31.7	2.92	A
Aroclor 1232	ND		ug/kg	31.7	3.72	A
Aroclor 1242	ND		ug/kg	31.7	3.88	A
Aroclor 1248	ND		ug/kg	31.7	2.68	A
Aroclor 1254	ND		ug/kg	31.7	2.61	A
Aroclor 1260	ND		ug/kg	31.7	2.42	A
Aroclor 1262	ND		ug/kg	31.7	1.57	A
Aroclor 1268	ND		ug/kg	31.7	4.60	A
PCBs, Total	ND		ug/kg	31.7	1.57	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	80		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVENUE

Project Number: 911 ATLANTIC AVE

Lab Number: L1524831

Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG828385-2 WG828385-3									
Aroclor 1016	74		83		40-140	11		50	A
Aroclor 1260	74		82		40-140	10		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		89		30-150	A
Decachlorobiphenyl	91		95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		95		30-150	B
Decachlorobiphenyl	88		93		30-150	B

PESTICIDES

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1524831

Project Number: 911 ATLANTIC AVE **Report Date:** 10/12/15

SAMPLE RESULTS

Lab ID:	L1524831-01	Date Collected:	10/01/15 10:10
Client ID:	SB-2	Date Received:	10/05/15
Sample Location:	911 ATLANTIC AVENUE, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	10/06/15 12:35
Analytical Date:	10/07/15 10:14	Cleanup Method:	EPA 3620B
Analyst:	AM	Cleanup Date:	10/06/15
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.71	0.335	1	A
Lindane	ND		ug/kg	0.713	0.319	1	A
Alpha-BHC	ND		ug/kg	0.713	0.202	1	A
Beta-BHC	ND		ug/kg	1.71	0.649	1	A
Heptachlor	ND		ug/kg	0.856	0.384	1	A
Aldrin	ND		ug/kg	1.71	0.602	1	A
Heptachlor epoxide	ND		ug/kg	3.21	0.963	1	A
Endrin	ND		ug/kg	0.713	0.292	1	A
Endrin ketone	ND		ug/kg	1.71	0.441	1	A
Dieldrin	ND		ug/kg	1.07	0.535	1	A
4,4'-DDE	ND		ug/kg	1.71	0.396	1	A
4,4'-DDD	ND		ug/kg	1.71	0.610	1	A
4,4'-DDT	ND		ug/kg	3.21	1.38	1	A
Endosulfan I	ND		ug/kg	1.71	0.404	1	A
Endosulfan II	ND		ug/kg	1.71	0.572	1	A
Endosulfan sulfate	ND		ug/kg	0.713	0.339	1	A
Methoxychlor	ND		ug/kg	3.21	0.998	1	A
Toxaphene	ND		ug/kg	32.1	8.98	1	A
cis-Chlordane	ND		ug/kg	2.14	0.596	1	A
trans-Chlordane	ND		ug/kg	2.14	0.565	1	A
Chlordane	ND		ug/kg	13.9	5.67	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	142		30-150	B
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	143		30-150	A

Project Name: 911 ATLANTIC AVENUE
Lab Number: L1524831
Project Number: 911 ATLANTIC AVE
Report Date: 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-02
Client ID: SB-3 (60-62)
Sample Location: 911 ATLANTIC AVENUE, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/07/15 10:27
Analyst: AM
Percent Solids: 88%

Date Collected: 10/02/15 09:15
Date Received: 10/05/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/06/15 12:35
Cleanup Method: EPA 3620B
Cleanup Date: 10/06/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.731	0.327	1	A
Alpha-BHC	ND		ug/kg	0.731	0.208	1	A
Beta-BHC	ND		ug/kg	1.75	0.665	1	A
Heptachlor	ND		ug/kg	0.877	0.393	1	A
Aldrin	ND		ug/kg	1.75	0.617	1	A
Heptachlor epoxide	ND		ug/kg	3.29	0.986	1	A
Endrin	ND		ug/kg	0.731	0.300	1	A
Endrin ketone	ND		ug/kg	1.75	0.452	1	A
Dieldrin	ND		ug/kg	1.10	0.548	1	A
4,4'-DDE	ND		ug/kg	1.75	0.406	1	A
4,4'-DDD	ND		ug/kg	1.75	0.625	1	A
4,4'-DDT	ND		ug/kg	3.29	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.586	1	A
Endosulfan sulfate	ND		ug/kg	0.731	0.348	1	A
Methoxychlor	ND		ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.21	1	A
cis-Chlordane	ND		ug/kg	2.19	0.611	1	A
trans-Chlordane	ND		ug/kg	2.19	0.579	1	A
Chlordane	ND		ug/kg	14.2	5.81	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	135		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	135		30-150	A

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/07/15 09:35
Analyst: AM

Extraction Method: EPA 3546
Extraction Date: 10/06/15 12:35
Cleanup Method: EPA 3620B
Cleanup Date: 10/06/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG828280-1						
Delta-BHC	ND		ug/kg	1.54	0.302	A
Lindane	ND		ug/kg	0.643	0.287	A
Alpha-BHC	ND		ug/kg	0.643	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.585	A
Heptachlor	ND		ug/kg	0.771	0.346	A
Aldrin	ND		ug/kg	1.54	0.543	A
Heptachlor epoxide	ND		ug/kg	2.89	0.868	A
Endrin	ND		ug/kg	0.643	0.263	A
Endrin ketone	ND		ug/kg	1.54	0.397	A
Dieldrin	ND		ug/kg	0.964	0.482	A
4,4'-DDE	ND		ug/kg	1.54	0.357	A
4,4'-DDD	ND		ug/kg	1.54	0.550	A
4,4'-DDT	ND		ug/kg	2.89	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.364	A
Endosulfan II	ND		ug/kg	1.54	0.515	A
Endosulfan sulfate	ND		ug/kg	0.643	0.306	A
Methoxychlor	ND		ug/kg	2.89	0.900	A
Toxaphene	ND		ug/kg	28.9	8.10	A
cis-Chlordane	ND		ug/kg	1.93	0.537	A
trans-Chlordane	ND		ug/kg	1.93	0.509	A
Chlordane	ND		ug/kg	12.5	5.11	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	141		30-150	B
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	141		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVENUE

Project Number: 911 ATLANTIC AVE

Lab Number: L1524831

Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG828280-2 WG828280-3									
Delta-BHC	97		100		30-150	3		30	A
Lindane	94		93		30-150	1		30	A
Alpha-BHC	102		101		30-150	1		30	A
Beta-BHC	91		90		30-150	1		30	A
Heptachlor	86		86		30-150	0		30	A
Aldrin	93		94		30-150	1		30	A
Heptachlor epoxide	90		86		30-150	5		30	A
Endrin	102		105		30-150	3		30	A
Endrin ketone	107		109		30-150	2		30	A
Dieldrin	99		102		30-150	3		30	A
4,4'-DDE	96		98		30-150	2		30	A
4,4'-DDD	103		110		30-150	7		30	A
4,4'-DDT	104		106		30-150	2		30	A
Endosulfan I	94		95		30-150	1		30	A
Endosulfan II	103		102		30-150	1		30	A
Endosulfan sulfate	97		100		30-150	3		30	A
Methoxychlor	114		118		30-150	3		30	A
cis-Chlordane	93		93		30-150	0		30	A
trans-Chlordane	99		100		30-150	1		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVENUE

Project Number: 911 ATLANTIC AVE

Lab Number: L1524831

Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG828280-2 WG828280-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		88		30-150	B
Decachlorobiphenyl	141		141		30-150	B
2,4,5,6-Tetrachloro-m-xylene	97		94		30-150	A
Decachlorobiphenyl	138		142		30-150	A

METALS

Project Name: 911 ATLANTIC AVENUE
Lab Number: L1524831
Project Number: 911 ATLANTIC AVE
Report Date: 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-01
Client ID: SB-2
Sample Location: 911 ATLANTIC AVENUE, BROOKLYN,
Matrix: Soil
Percent Solids: 90%

Date Collected: 10/01/15 10:10
Date Received: 10/05/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	3900		mg/kg	8.7	1.7	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Antimony, Total	ND		mg/kg	4.4	0.70	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Arsenic, Total	3.7		mg/kg	0.87	0.17	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Barium, Total	20		mg/kg	0.87	0.26	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Beryllium, Total	0.19	J	mg/kg	0.44	0.09	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.87	0.06	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Calcium, Total	6200		mg/kg	8.7	2.6	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Chromium, Total	26		mg/kg	0.87	0.17	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Cobalt, Total	6.8		mg/kg	1.7	0.44	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Copper, Total	150		mg/kg	0.87	0.17	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Iron, Total	10000		mg/kg	4.4	1.7	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Lead, Total	ND		mg/kg	4.4	0.17	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Magnesium, Total	6100		mg/kg	8.7	0.87	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Manganese, Total	180		mg/kg	0.87	0.17	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Mercury, Total	0.02	J	mg/kg	0.07	0.02	1	10/06/15 08:00	10/06/15 13:53	EPA 7471B	1,7471B	DB
Nickel, Total	85		mg/kg	2.2	0.35	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Potassium, Total	1100		mg/kg	220	35.	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Selenium, Total	1.4	J	mg/kg	1.7	0.26	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.87	0.17	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Sodium, Total	170		mg/kg	170	26.	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	1.7	0.35	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Vanadium, Total	19		mg/kg	0.87	0.09	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS
Zinc, Total	39		mg/kg	4.4	0.61	2	10/06/15 04:27	10/07/15 20:44	EPA 3050B	1,6010C	PS

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE
Lab Number: L1524831
Report Date: 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-02
Client ID: SB-3 (60-62)
Sample Location: 911 ATLANTIC AVENUE, BROOKLYN,
Matrix: Soil
Percent Solids: 88%

Date Collected: 10/02/15 09:15
Date Received: 10/05/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	4200		mg/kg	9.0	1.8	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Antimony, Total	3.0	J	mg/kg	4.5	0.72	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Arsenic, Total	3.5		mg/kg	0.90	0.18	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Barium, Total	22		mg/kg	0.90	0.27	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Beryllium, Total	0.21	J	mg/kg	0.45	0.09	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.90	0.06	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Calcium, Total	2000		mg/kg	9.0	2.7	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Chromium, Total	13		mg/kg	0.90	0.18	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Cobalt, Total	4.7		mg/kg	1.8	0.45	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Copper, Total	34		mg/kg	0.90	0.18	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Iron, Total	10000		mg/kg	4.5	1.8	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Lead, Total	ND		mg/kg	4.5	0.18	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Magnesium, Total	5100		mg/kg	9.0	0.90	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Manganese, Total	230		mg/kg	0.90	0.18	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Mercury, Total	0.02	J	mg/kg	0.07	0.02	1	10/06/15 08:00	10/06/15 14:00	EPA 7471B	1,7471B	DB
Nickel, Total	27		mg/kg	2.2	0.36	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Potassium, Total	1400		mg/kg	220	36.	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.8	0.27	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.90	0.18	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Sodium, Total	180		mg/kg	180	27.	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	1.8	0.36	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Vanadium, Total	20		mg/kg	0.90	0.09	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS
Zinc, Total	35		mg/kg	4.5	0.63	2	10/06/15 04:27	10/07/15 21:52	EPA 3050B	1,6010C	PS

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1524831

Project Number: 911 ATLANTIC AVE **Report Date:** 10/12/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG828106-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Antimony, Total	ND		mg/kg	2.0	0.32	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Arsenic, Total	ND		mg/kg	0.40	0.08	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Barium, Total	ND		mg/kg	0.40	0.12	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Beryllium, Total	ND		mg/kg	0.20	0.04	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.40	0.03	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Calcium, Total	ND		mg/kg	4.0	1.2	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Chromium, Total	ND		mg/kg	0.40	0.08	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Cobalt, Total	ND		mg/kg	0.80	0.20	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Copper, Total	ND		mg/kg	0.40	0.08	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Iron, Total	1.1	J	mg/kg	2.0	0.80	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Lead, Total	ND		mg/kg	2.0	0.08	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Magnesium, Total	ND		mg/kg	4.0	0.40	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Manganese, Total	0.09	J	mg/kg	0.40	0.08	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Nickel, Total	ND		mg/kg	1.0	0.16	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Potassium, Total	ND		mg/kg	100	16.	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Selenium, Total	ND		mg/kg	0.80	0.12	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Silver, Total	ND		mg/kg	0.40	0.08	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Sodium, Total	ND		mg/kg	80	12.	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Thallium, Total	ND		mg/kg	0.80	0.16	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Vanadium, Total	ND		mg/kg	0.40	0.04	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS
Zinc, Total	ND		mg/kg	2.0	0.28	1	10/06/15 04:27	10/07/15 20:36	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG828116-1										
Mercury, Total	0.03	J	mg/kg	0.08	0.02	1	10/06/15 08:00	10/06/15 13:46	1,7471B	DB

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE
Lab Number: L1524831
Report Date: 10/12/15

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVENUE

Project Number: 911 ATLANTIC AVE

Lab Number: L1524831

Report Date: 10/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG828106-2 SRM Lot Number: D088-540								
Aluminum, Total	79		-		48-151	-		
Antimony, Total	168		-		1-208	-		
Arsenic, Total	96		-		79-121	-		
Barium, Total	88		-		83-117	-		
Beryllium, Total	93		-		83-117	-		
Cadmium, Total	90		-		83-117	-		
Calcium, Total	89		-		81-119	-		
Chromium, Total	89		-		80-120	-		
Cobalt, Total	89		-		84-115	-		
Copper, Total	90		-		81-118	-		
Iron, Total	96		-		45-155	-		
Lead, Total	81		-		81-117	-		
Magnesium, Total	88		-		76-124	-		
Manganese, Total	88		-		81-118	-		
Nickel, Total	89		-		83-117	-		
Potassium, Total	89		-		71-129	-		
Selenium, Total	91		-		78-122	-		
Silver, Total	91		-		75-124	-		
Sodium, Total	86		-		72-127	-		
Thallium, Total	90		-		80-120	-		
Vanadium, Total	90		-		78-122	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVENUE

Project Number: 911 ATLANTIC AVE

Lab Number: L1524831

Report Date: 10/12/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG828106-2 SRM Lot Number: D088-540					
Zinc, Total	88	-	82-118	-	
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG828116-2 SRM Lot Number: D088-540					
Mercury, Total	96	-	72-128	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG828106-4 QC Sample: L1524831-01 Client ID: SB-2												
Aluminum, Total	3900	172	3400	**0**	Q	-	-		75-125	-		20
Antimony, Total	ND	43	43	100		-	-		75-125	-		20
Arsenic, Total	3.7	10.3	14	100		-	-		75-125	-		20
Barium, Total	20.	172	180	93		-	-		75-125	-		20
Beryllium, Total	0.19J	4.3	4.4	102		-	-		75-125	-		20
Cadmium, Total	ND	4.39	4.1	93		-	-		75-125	-		20
Calcium, Total	6200	860	5600	**0**	Q	-	-		75-125	-		20
Chromium, Total	26.	17.2	37	**64**	Q	-	-		75-125	-		20
Cobalt, Total	6.8	43	45	89		-	-		75-125	-		20
Copper, Total	150	21.5	95	**0**	Q	-	-		75-125	-		20
Iron, Total	10000	86	10000	**0**	Q	-	-		75-125	-		20
Lead, Total	ND	43.9	42	96		-	-		75-125	-		20
Magnesium, Total	6100	860	8100	**232**	Q	-	-		75-125	-		20
Manganese, Total	180	43	230	116		-	-		75-125	-		20
Nickel, Total	85.	43	110	**58**	Q	-	-		75-125	-		20
Potassium, Total	1100	860	1600	**58**	Q	-	-		75-125	-		20
Selenium, Total	1.4J	10.3	9.7	94		-	-		75-125	-		20
Silver, Total	ND	25.8	26	101		-	-		75-125	-		20
Sodium, Total	170	860	1000	116		-	-		75-125	-		20
Thallium, Total	ND	10.3	9.2	89		-	-		75-125	-		20
Vanadium, Total	19.	43	58	91		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG828106-4 QC Sample: L1524831-01 Client ID: SB-2									
Zinc, Total	39.	43	81	98	-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG828116-4 QC Sample: L1524831-01 Client ID: SB-2									
Mercury, Total	0.02J	0.142	0.16	113	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG828106-3 QC Sample: L1524831-01 Client ID: SB-2						
Aluminum, Total	3900	2000	mg/kg	**64**	Q	20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	3.7	1.3	mg/kg	**96**	Q	20
Barium, Total	20.	8.5	mg/kg	**81**	Q	20
Beryllium, Total	0.19J	0.06J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	6200	1800	mg/kg	**110**	Q	20
Chromium, Total	26.	12	mg/kg	**74**	Q	20
Cobalt, Total	6.8	3.3	mg/kg	**69**	Q	20
Copper, Total	150	60	mg/kg	**86**	Q	20
Iron, Total	10000	4700	mg/kg	**72**	Q	20
Lead, Total	ND	ND	mg/kg	NC		20
Magnesium, Total	6100	2400	mg/kg	**87**	Q	20
Manganese, Total	180	68	mg/kg	**90**	Q	20
Nickel, Total	85.	29	mg/kg	**98**	Q	20
Potassium, Total	1100	410	mg/kg	**91**	Q	20
Selenium, Total	1.4J	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	170	120	mg/kg	**34**	Q	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG828106-3 QC Sample: L1524831-01 Client ID: SB-2						
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	19.	10	mg/kg	**62**	Q	20
Zinc, Total	39.	20	mg/kg	**64**	Q	20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG828116-3 QC Sample: L1524831-01 Client ID: SB-2						
Mercury, Total	0.02J	0.02J	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-01
Client ID: SB-2
Sample Location: 911 ATLANTIC AVENUE, BROOKLYN,
Matrix: Soil

Date Collected: 10/01/15 10:10
Date Received: 10/05/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3		%	0.100	NA	1	-	10/06/15 01:30	30,2540G	RT

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

SAMPLE RESULTS

Lab ID: L1524831-02
Client ID: SB-3 (60-62)
Sample Location: 911 ATLANTIC AVENUE, BROOKLYN,
Matrix: Soil

Date Collected: 10/02/15 09:15
Date Received: 10/05/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.9		%	0.100	NA	1	-	10/06/15 01:30	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG828096-1 QC Sample: L1524831-01 Client ID: SB-2						
Solids, Total	90.3	89.0	%	1		20

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1524831-01A	Vial Large Septa unpreserved (4o	B	N/A	4.2	Y	Absent	NYTCL-8260(14)
L1524831-01A9	Vial MeOH preserved split	B	N/A	4.2	Y	Absent	NYTCL-8260(14)
L1524831-01B	Glass 250ml/8oz unpreserved	B	N/A	4.2	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1524831-02A	Vial Large Septa unpreserved (4o	B	N/A	4.2	Y	Absent	NYTCL-8260(14)
L1524831-02A9	Vial MeOH preserved split	B	N/A	4.2	Y	Absent	NYTCL-8260(14)
L1524831-02B	Glass 250ml/8oz unpreserved	B	N/A	4.2	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1524831-03A	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)
L1524831-03B	Vial HCl preserved	A	N/A	3.4	Y	Absent	NYTCL-8260(14)

Container Comments

L1524831-01B

*Values in parentheses indicate holding time in days

Project Name: 911 ATLANTIC AVENUE
Project Number: 911 ATLANTIC AVE

Lab Number: L1524831
Report Date: 10/12/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)

Container Comments

L1524831-02B

*Values in parentheses indicate holding time in days

Project Name:	911 ATLANTIC AVENUE	**Lab Number:**	L1524831
Project Number:	911 ATLANTIC AVE	**Report Date:**	10/12/15

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	911 ATLANTIC AVENUE	**Lab Number:**	L1524831
Project Number:	911 ATLANTIC AVE	**Report Date:**	10/12/15

Data Qualifiers

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	911 ATLANTIC AVENUE	**Lab Number:**	L1524831
Project Number:	911 ATLANTIC AVE	**Report Date:**	10/12/15

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide) (soil), Methyl methacrylate (soil), Azobenzene.
EPA 8270D: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 10/2/15

ALPHA Job #: L1524831

Client Information

Client: Tenen Environmental
Address: 121 W 27th Street
Manhattan, NY, 10001
Phone: (646-600-2352
Fax:
Email: MCarroll@tenen-env.com

Project Information

Project Name: 911 Atlantic Avenue
Project Location: 911 Atlantic Ave, Brooklyn, NY
Project # 911 Atlantic Avenue
(Use Project name as Project #) ☒
Project Manager: Matt Carroll
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☒ NY CP-51
☐ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

TCL VOlatiles via EPA 8260
NYTCL- Semivolatile via EPA 8270
TCL Pesticides via EPA 8081B
TCL PCBs EPA 8082A
TAL METALS - Total 6010C

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOlatiles	NYTCL- Semivolatile	TCL Pesticides	TCL PCBs	TAL METALS - Total				Sample Specific Comments
2443160	SB-2	10/01/15	1010	S	AK	X	X	X	X	X				
02	SB-3 (60-62)	10/02/15	0915	S	CZ	X	X	X	X	X				
03	TRIP BLANK	—	—	W		X								

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type														
Preservative														

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	10/02/15 [illegible]	[illegible]	10-2-15 1310
[illegible]	10-2-15 1850	Tom Tobin	10-2-15 1850
Tom Tobin	10/2/15 2330	[illegible] Scott	10/2/15 2330

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

CHAIN OF CUSTODY

PAGE _____ OF _____

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Date Rec'd in Lab: 10/5/15

ALPHA Job #: L1524831

Client Information

Client: Teren Environmental
Address: 121 W. 27th Street
Manhattan, NY 10001
Phone: 646-606-2332
Email: mcarroll@teren-env.com

Additional Project Information:

COC created by Logmi Deptha

Project Information

Project Name: 911 Atlantic Avenue
Project Location: 911 Atlantic Ave., Brooklyn, NY
Project #: 911 Atlantic Avenue
Project Manager: Matt Carroll
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Report Information - Data Deliverables

☐ ADEx ☐ EMAIL

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	ANALYSIS: VOC: ☒8260 ☐624 ☐524.2	SVOC: ☐ABN	METALS: ☐MCP 13	METALS: ☐RCRA5	EPH: ☐Ranges & Targets	VPH: ☐Ranges & Targets	☐PCB	☐PEST	TPH: ☐Quant Only	☐Fingerprint	TAL METALS	SAMPLE INFO: Filtration ☐Field ☐Lab to do; Preservation ☐Lab to do	Sample Comments	TOTAL # BOTTLES
24831-01	SB-2	10/1/15	10:10	S	AL	X	X					X		X					2
-02	SB3 (60-62)	10/2/15	09:15	S	CZ	X	X					X		X					2

EPA 8270

Container Type																							
Preservative																							

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
	10/5/15		
	10/5/15 22:00		10/5/15 22:00

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

ANALYTICAL REPORT

Lab Number:	L1526897
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 303 New York City, NY 10001
ATTN:	Matt Carroll
Phone:	(646) 606-2332
Project Name:	911 ATLANTIC AAVE.
Project Number:	911 ATLANTIC AVE
Report Date:	10/28/15

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1526897-01	SS-8 (0-2)	SOIL	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 09:30	10/21/15
L1526897-02	SS-8 (11-13)	SOIL	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 09:40	10/21/15
L1526897-03	SS-7 (0-2)	SOIL	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 09:55	10/21/15
L1526897-04	SS-7 (9-11)	SOIL	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 10:00	10/21/15
L1526897-05	SS-3A (6-8)	SOIL	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 10:23	10/21/15
L1526897-06	SS-4 (0-2)	SOIL	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 10:30	10/21/15
L1526897-07	SS-4 (6-8)	SOIL	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 10:40	10/21/15
L1526897-08	SS-2A (4-5)	SOIL	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 10:50	10/21/15
L1526897-09	SS-2A (6-8)	SOIL	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 10:54	10/21/15
L1526897-10	SS-5 (0-2)	SOIL	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 12:55	10/21/15
L1526897-11	SS-5 (2-4)	SOIL	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 13:05	10/21/15
L1526897-12	SS-5 (4-6)	SOIL	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 13:00	10/21/15
L1526897-13	SS-6 (0-2)	SOIL	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 14:00	10/21/15
L1526897-14	SS-6 (2-4)	SOIL	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 14:10	10/21/15
L1526897-15	SS-6 (4-5)	SOIL	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 14:05	10/21/15
L1526897-16	FIELD BLANK	WATER	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 11:05	10/21/15
L1526897-17	TRIP BLANK	WATER	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 00:00	10/21/15

Project Name:	911 ATLANTIC AAVE.	**Lab Number:**	L1526897
Project Number:	911 ATLANTIC AVE	**Report Date:**	10/28/15

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	911 ATLANTIC AAVE.	**Lab Number:**	L1526897
Project Number:	911 ATLANTIC AVE	**Report Date:**	10/28/15

Case Narrative (continued)

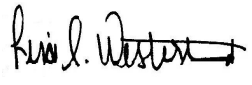
Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Metals

L1526897-01 through -07, -09, -10, -12, -13 and -15: The samples have elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Lisa Westerlind

Title: Technical Director/Representative Date: 10/28/15

ORGANICS

VOLATILES

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-01
Client ID: SS-8 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/27/15 11:36
Analyst: BN
Percent Solids: 90%

Date Collected: 10/21/15 09:30
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.6	0.16	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.6	0.33	1
Bromomethane	ND		ug/kg	2.2	0.38	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.17	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-01 Date Collected: 10/21/15 09:30

Client ID: SS-8 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1
p/m-Xylene	0.29	J	ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
Xylenes, Total	0.29	J	ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.45	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	ND		ug/kg	11	1.2	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.30	1
Vinyl acetate	ND		ug/kg	11	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
2-Hexanone	ND		ug/kg	11	0.74	1
Bromochloromethane	ND		ug/kg	5.6	0.31	1
2,2-Dichloropropane	ND		ug/kg	5.6	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.6	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.6	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.14	1
tert-Butylbenzene	ND		ug/kg	5.6	0.15	1
o-Chlorotoluene	ND		ug/kg	5.6	0.18	1
p-Chlorotoluene	ND		ug/kg	5.6	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.44	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.25	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	0.30	J	ug/kg	5.6	0.15	1
Acrylonitrile	ND		ug/kg	11	0.57	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	0.16	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-01 Date Collected: 10/21/15 09:30

Client ID: SS-8 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
p-Diethylbenzene	ND		ug/kg	4.4	0.18	1
p-Ethyltoluene	ND		ug/kg	4.4	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.14	1
Ethyl ether	ND		ug/kg	5.6	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	98		70-130

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-02
Client ID: SS-8 (11-13)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/27/15 12:02
Analyst: BN
Percent Solids: 93%

Date Collected: 10/21/15 09:40
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.22	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.24	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.42	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.18	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.15	1
Bromoform	ND		ug/kg	4.3	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.4	0.32	1
Bromomethane	ND		ug/kg	2.1	0.36	1
Vinyl chloride	ND		ug/kg	2.1	0.12	1
Chloroethane	ND		ug/kg	2.1	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.16	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-02 Date Collected: 10/21/15 09:40

Client ID: SS-8 (11-13) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.09	1
p/m-Xylene	ND		ug/kg	2.1	0.21	1
o-Xylene	ND		ug/kg	2.1	0.18	1
Xylenes, Total	ND		ug/kg	2.1	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.15	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.1	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.20	1
Acetone	5.1	J	ug/kg	11	1.1	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.29	1
Vinyl acetate	ND		ug/kg	11	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.17	1
2-Hexanone	ND		ug/kg	11	0.71	1
Bromochloromethane	ND		ug/kg	5.4	0.30	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.22	1
n-Butylbenzene	ND		ug/kg	1.1	0.12	1
sec-Butylbenzene	ND		ug/kg	1.1	0.13	1
tert-Butylbenzene	ND		ug/kg	5.4	0.14	1
o-Chlorotoluene	ND		ug/kg	5.4	0.17	1
p-Chlorotoluene	ND		ug/kg	5.4	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.42	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.24	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.13	1
Naphthalene	0.80	J	ug/kg	5.4	0.15	1
Acrylonitrile	ND		ug/kg	11	0.55	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.15	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-02 Date Collected: 10/21/15 09:40

Client ID: SS-8 (11-13) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.15	1
1,4-Dioxane	ND		ug/kg	110	15.	1
p-Diethylbenzene	ND		ug/kg	4.3	0.17	1
p-Ethyltoluene	ND		ug/kg	4.3	0.13	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.14	1
Ethyl ether	ND		ug/kg	5.4	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	103		70-130

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-03
Client ID: SS-7 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/27/15 12:28
Analyst: BN
Percent Solids: 89%

Date Collected: 10/21/15 09:55
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.6	0.16	1
Bromoform	ND		ug/kg	4.5	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.6	0.33	1
Bromomethane	ND		ug/kg	2.2	0.38	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.17	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-03 Date Collected: 10/21/15 09:55

Client ID: SS-7 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.10	1
p/m-Xylene	ND		ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
Xylenes, Total	ND		ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.45	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	ND		ug/kg	11	1.2	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.30	1
Vinyl acetate	ND		ug/kg	11	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
2-Hexanone	ND		ug/kg	11	0.75	1
Bromochloromethane	ND		ug/kg	5.6	0.31	1
2,2-Dichloropropane	ND		ug/kg	5.6	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.6	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.6	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.14	1
tert-Butylbenzene	ND		ug/kg	5.6	0.15	1
o-Chlorotoluene	ND		ug/kg	5.6	0.18	1
p-Chlorotoluene	ND		ug/kg	5.6	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.44	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.26	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	ND		ug/kg	5.6	0.16	1
Acrylonitrile	ND		ug/kg	11	0.58	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	0.16	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-03 Date Collected: 10/21/15 09:55

Client ID: SS-7 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
p-Diethylbenzene	ND		ug/kg	4.5	0.18	1
p-Ethyltoluene	ND		ug/kg	4.5	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.5	0.15	1
Ethyl ether	ND		ug/kg	5.6	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	104		70-130

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-04
Client ID: SS-7 (9-11)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/26/15 21:36
Analyst: PP
Percent Solids: 86%

Date Collected: 10/21/15 10:00
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.1	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.36	1
Tetrachloroethene	ND		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.41	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.8	0.16	1
Bromoform	ND		ug/kg	4.7	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	5.8	0.34	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.14	1
Chloroethane	ND		ug/kg	2.3	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.18	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-04 Date Collected: 10/21/15 10:00

Client ID: SS-7 (9-11) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.10	1
p/m-Xylene	ND		ug/kg	2.3	0.23	1
o-Xylene	ND		ug/kg	2.3	0.20	1
Xylenes, Total	ND		ug/kg	2.3	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.3	0.47	1
Dichlorodifluoromethane	ND		ug/kg	12	0.22	1
Acetone	ND		ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.32	1
Vinyl acetate	ND		ug/kg	12	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.19	1
2-Hexanone	ND		ug/kg	12	0.78	1
Bromochloromethane	ND		ug/kg	5.8	0.32	1
2,2-Dichloropropane	ND		ug/kg	5.8	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.7	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.8	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.8	0.24	1
n-Butylbenzene	ND		ug/kg	1.2	0.13	1
sec-Butylbenzene	ND		ug/kg	1.2	0.14	1
tert-Butylbenzene	ND		ug/kg	5.8	0.16	1
o-Chlorotoluene	ND		ug/kg	5.8	0.19	1
p-Chlorotoluene	ND		ug/kg	5.8	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.46	1
Hexachlorobutadiene	ND		ug/kg	5.8	0.27	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	5.8	0.16	1
Acrylonitrile	ND		ug/kg	12	0.60	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.8	0.17	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-04 Date Collected: 10/21/15 10:00

Client ID: SS-7 (9-11) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.8	0.16	1
1,4-Dioxane	ND		ug/kg	120	17.	1
p-Diethylbenzene	ND		ug/kg	4.7	0.19	1
p-Ethyltoluene	ND		ug/kg	4.7	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.7	0.15	1
Ethyl ether	ND		ug/kg	5.8	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	106		70-130

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-05
Client ID: SS-3A (6-8)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/26/15 22:02
Analyst: PP
Percent Solids: 83%

Date Collected: 10/21/15 10:23
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	0.40	J	ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.47	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.14	1
1,1-Dichloropropene	ND		ug/kg	6.0	0.17	1
Bromoform	ND		ug/kg	4.8	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	6.0	0.36	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.18	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-05 Date Collected: 10/21/15 10:23

Client ID: SS-3A (6-8) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	0.28	J	ug/kg	2.4	0.24	1
o-Xylene	ND		ug/kg	2.4	0.21	1
Xylenes, Total	0.28	J	ug/kg	2.4	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.4	0.49	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	ND		ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.33	1
Vinyl acetate	ND		ug/kg	12	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.20	1
2-Hexanone	ND		ug/kg	12	0.80	1
Bromochloromethane	ND		ug/kg	6.0	0.33	1
2,2-Dichloropropane	ND		ug/kg	6.0	0.27	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.21	1
1,3-Dichloropropane	ND		ug/kg	6.0	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.0	0.25	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.0	0.16	1
o-Chlorotoluene	ND		ug/kg	6.0	0.19	1
p-Chlorotoluene	ND		ug/kg	6.0	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.48	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.28	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	6.0	0.17	1
Acrylonitrile	ND		ug/kg	12	0.62	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	0.17	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-05 Date Collected: 10/21/15 10:23

Client ID: SS-3A (6-8) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	0.17	1
1,4-Dioxane	ND		ug/kg	120	17.	1
p-Diethylbenzene	ND		ug/kg	4.8	0.19	1
p-Ethyltoluene	ND		ug/kg	4.8	0.15	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.16	1
Ethyl ether	ND		ug/kg	6.0	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	105		70-130

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-06
Client ID: SS-4 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/26/15 22:28
Analyst: PP
Percent Solids: 84%

Date Collected: 10/21/15 10:30
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.36	1
Tetrachloroethene	0.90	J	ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.14	1
1,1-Dichloropropene	ND		ug/kg	6.0	0.17	1
Bromoform	ND		ug/kg	4.8	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	0.24	J	ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	6.0	0.35	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.18	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-06 Date Collected: 10/21/15 10:30

Client ID: SS-4 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	1.2	J	ug/kg	2.4	0.24	1
o-Xylene	0.69	J	ug/kg	2.4	0.20	1
Xylenes, Total	1.9	J	ug/kg	2.4	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	14		ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.32	1
Vinyl acetate	ND		ug/kg	12	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.19	1
2-Hexanone	ND		ug/kg	12	0.79	1
Bromochloromethane	ND		ug/kg	6.0	0.33	1
2,2-Dichloropropane	ND		ug/kg	6.0	0.27	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.21	1
1,3-Dichloropropane	ND		ug/kg	6.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.0	0.25	1
n-Butylbenzene	0.50	J	ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.14	1
tert-Butylbenzene	ND		ug/kg	6.0	0.16	1
o-Chlorotoluene	ND		ug/kg	6.0	0.19	1
p-Chlorotoluene	ND		ug/kg	6.0	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.47	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.27	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	0.25	J	ug/kg	1.2	0.15	1
Naphthalene	1.2	J	ug/kg	6.0	0.16	1
Acrylonitrile	ND		ug/kg	12	0.61	1
n-Propylbenzene	0.41	J	ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.22	1
1,3,5-Trimethylbenzene	3.0	J	ug/kg	6.0	0.17	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-06 Date Collected: 10/21/15 10:30

Client ID: SS-4 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	9.4		ug/kg	6.0	0.17	1
1,4-Dioxane	ND		ug/kg	120	17.	1
p-Diethylbenzene	9.3		ug/kg	4.8	0.19	1
p-Ethyltoluene	4.2	J	ug/kg	4.8	0.15	1
1,2,4,5-Tetramethylbenzene	3.2	J	ug/kg	4.8	0.16	1
Ethyl ether	ND		ug/kg	6.0	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	106		70-130

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-07
Client ID: SS-4 (6-8)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/26/15 22:54
Analyst: PP
Percent Solids: 89%

Date Collected: 10/21/15 10:40
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.6	0.16	1
Bromoform	ND		ug/kg	4.5	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.6	0.33	1
Bromomethane	ND		ug/kg	2.2	0.38	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.17	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-07 Date Collected: 10/21/15 10:40

Client ID: SS-4 (6-8) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.10	1
p/m-Xylene	ND		ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
Xylenes, Total	ND		ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.45	1
Dichlorodifluoromethane	ND		ug/kg	11	0.22	1
Acetone	2.6	J	ug/kg	11	1.2	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.31	1
Vinyl acetate	ND		ug/kg	11	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
2-Hexanone	ND		ug/kg	11	0.75	1
Bromochloromethane	ND		ug/kg	5.6	0.31	1
2,2-Dichloropropane	ND		ug/kg	5.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.6	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.6	0.24	1
n-Butylbenzene	0.31	J	ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.14	1
tert-Butylbenzene	ND		ug/kg	5.6	0.15	1
o-Chlorotoluene	ND		ug/kg	5.6	0.18	1
p-Chlorotoluene	ND		ug/kg	5.6	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.45	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.26	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.25	J	ug/kg	1.1	0.14	1
Naphthalene	3.1	J	ug/kg	5.6	0.16	1
Acrylonitrile	ND		ug/kg	11	0.58	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.20	1
1,3,5-Trimethylbenzene	0.82	J	ug/kg	5.6	0.16	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-07 Date Collected: 10/21/15 10:40

Client ID: SS-4 (6-8) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	3.5	J	ug/kg	5.6	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
p-Diethylbenzene	5.6		ug/kg	4.5	0.18	1
p-Ethyltoluene	1.4	J	ug/kg	4.5	0.14	1
1,2,4,5-Tetramethylbenzene	3.3	J	ug/kg	4.5	0.15	1
Ethyl ether	ND		ug/kg	5.6	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	108		70-130

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-09
Client ID: SS-2A (6-8)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/26/15 23:20
Analyst: PP
Percent Solids: 83%

Date Collected: 10/21/15 10:54
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.36	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.14	1
1,1-Dichloropropene	ND		ug/kg	6.0	0.17	1
Bromoform	ND		ug/kg	4.8	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	6.0	0.35	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.18	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-09 Date Collected: 10/21/15 10:54

Client ID: SS-2A (6-8) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	ND		ug/kg	2.4	0.24	1
o-Xylene	ND		ug/kg	2.4	0.20	1
Xylenes, Total	ND		ug/kg	2.4	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	ND		ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.33	1
Vinyl acetate	ND		ug/kg	12	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.19	1
2-Hexanone	ND		ug/kg	12	0.80	1
Bromochloromethane	ND		ug/kg	6.0	0.33	1
2,2-Dichloropropane	ND		ug/kg	6.0	0.27	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.21	1
1,3-Dichloropropane	ND		ug/kg	6.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.0	0.25	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.0	0.16	1
o-Chlorotoluene	ND		ug/kg	6.0	0.19	1
p-Chlorotoluene	ND		ug/kg	6.0	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.47	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.27	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	6.0	0.16	1
Acrylonitrile	ND		ug/kg	12	0.62	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	0.17	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-09 Date Collected: 10/21/15 10:54

Client ID: SS-2A (6-8) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	0.17	1
1,4-Dioxane	ND		ug/kg	120	17.	1
p-Diethylbenzene	ND		ug/kg	4.8	0.19	1
p-Ethyltoluene	ND		ug/kg	4.8	0.15	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.16	1
Ethyl ether	ND		ug/kg	6.0	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	107		70-130

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-10
Client ID: SS-5 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/26/15 23:46
Analyst: PP
Percent Solids: 91%

Date Collected: 10/21/15 12:55
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.42	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.15	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.5	0.32	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.17	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-10 Date Collected: 10/21/15 12:55

Client ID: SS-5 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1
p/m-Xylene	ND		ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
Xylenes, Total	ND		ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	3.3	J	ug/kg	11	1.1	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.30	1
Vinyl acetate	ND		ug/kg	11	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
2-Hexanone	ND		ug/kg	11	0.73	1
Bromochloromethane	ND		ug/kg	5.5	0.30	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.12	1
sec-Butylbenzene	ND		ug/kg	1.1	0.13	1
tert-Butylbenzene	ND		ug/kg	5.5	0.15	1
o-Chlorotoluene	ND		ug/kg	5.5	0.18	1
p-Chlorotoluene	ND		ug/kg	5.5	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.43	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.25	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	ND		ug/kg	5.5	0.15	1
Acrylonitrile	ND		ug/kg	11	0.56	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-10 Date Collected: 10/21/15 12:55

Client ID: SS-5 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.15	1
1,4-Dioxane	ND		ug/kg	110	16.	1
p-Diethylbenzene	ND		ug/kg	4.4	0.18	1
p-Ethyltoluene	ND		ug/kg	4.4	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.14	1
Ethyl ether	ND		ug/kg	5.5	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	108		70-130

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-12
Client ID: SS-5 (4-6)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/27/15 00:13
Analyst: PP
Percent Solids: 92%

Date Collected: 10/21/15 13:00
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.42	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.15	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.4	0.32	1
Bromomethane	ND		ug/kg	2.2	0.36	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.16	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-12 Date Collected: 10/21/15 13:00

Client ID: SS-5 (4-6) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1
p/m-Xylene	0.30	J	ug/kg	2.2	0.21	1
o-Xylene	ND		ug/kg	2.2	0.18	1
Xylenes, Total	0.30	J	ug/kg	2.2	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.15	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	2.5	J	ug/kg	11	1.1	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.29	1
Vinyl acetate	ND		ug/kg	11	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
2-Hexanone	ND		ug/kg	11	0.72	1
Bromochloromethane	ND		ug/kg	5.4	0.30	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.22	1
n-Butylbenzene	ND		ug/kg	1.1	0.12	1
sec-Butylbenzene	ND		ug/kg	1.1	0.13	1
tert-Butylbenzene	ND		ug/kg	5.4	0.15	1
o-Chlorotoluene	ND		ug/kg	5.4	0.17	1
p-Chlorotoluene	ND		ug/kg	5.4	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.43	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.25	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	1.2	J	ug/kg	5.4	0.15	1
Acrylonitrile	ND		ug/kg	11	0.56	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.16	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-12 Date Collected: 10/21/15 13:00

Client ID: SS-5 (4-6) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.15	1
1,4-Dioxane	ND		ug/kg	110	16.	1
p-Diethylbenzene	ND		ug/kg	4.3	0.17	1
p-Ethyltoluene	ND		ug/kg	4.3	0.13	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.14	1
Ethyl ether	ND		ug/kg	5.4	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	103		70-130

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-13
Client ID: SS-6 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/27/15 00:39
Analyst: PP
Percent Solids: 89%

Date Collected: 10/21/15 14:00
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	0.60	J	ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.6	0.16	1
Bromoform	ND		ug/kg	4.5	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.6	0.33	1
Bromomethane	ND		ug/kg	2.2	0.38	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.17	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-13 Date Collected: 10/21/15 14:00

Client ID: SS-6 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.10	1
p/m-Xylene	0.29	J	ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
Xylenes, Total	0.29	J	ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.45	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	8.8	J	ug/kg	11	1.2	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.30	1
Vinyl acetate	ND		ug/kg	11	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
2-Hexanone	ND		ug/kg	11	0.75	1
Bromochloromethane	ND		ug/kg	5.6	0.31	1
2,2-Dichloropropane	ND		ug/kg	5.6	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.6	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.6	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.14	1
tert-Butylbenzene	ND		ug/kg	5.6	0.15	1
o-Chlorotoluene	ND		ug/kg	5.6	0.18	1
p-Chlorotoluene	ND		ug/kg	5.6	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.44	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.26	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	1.7	J	ug/kg	5.6	0.16	1
Acrylonitrile	ND		ug/kg	11	0.58	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	0.16	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-13 Date Collected: 10/21/15 14:00

Client ID: SS-6 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
p-Diethylbenzene	ND		ug/kg	4.5	0.18	1
p-Ethyltoluene	ND		ug/kg	4.5	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.5	0.14	1
Ethyl ether	ND		ug/kg	5.6	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	106		70-130

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-15
Client ID: SS-6 (4-5)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/27/15 01:05
Analyst: PP
Percent Solids: 93%

Date Collected: 10/21/15 14:05
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.22	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.24	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.42	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.15	1
Bromoform	ND		ug/kg	4.3	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.4	0.32	1
Bromomethane	ND		ug/kg	2.1	0.36	1
Vinyl chloride	ND		ug/kg	2.1	0.13	1
Chloroethane	ND		ug/kg	2.1	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.16	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-15 Date Collected: 10/21/15 14:05

Client ID: SS-6 (4-5) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.09	1
p/m-Xylene	ND		ug/kg	2.1	0.21	1
o-Xylene	ND		ug/kg	2.1	0.18	1
Xylenes, Total	ND		ug/kg	2.1	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.15	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.1	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.20	1
Acetone	ND		ug/kg	11	1.1	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.29	1
Vinyl acetate	ND		ug/kg	11	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.17	1
2-Hexanone	ND		ug/kg	11	0.72	1
Bromochloromethane	ND		ug/kg	5.4	0.30	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.22	1
n-Butylbenzene	ND		ug/kg	1.1	0.12	1
sec-Butylbenzene	ND		ug/kg	1.1	0.13	1
tert-Butylbenzene	ND		ug/kg	5.4	0.14	1
o-Chlorotoluene	ND		ug/kg	5.4	0.17	1
p-Chlorotoluene	ND		ug/kg	5.4	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.42	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.24	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.13	1
Naphthalene	ND		ug/kg	5.4	0.15	1
Acrylonitrile	ND		ug/kg	11	0.55	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.15	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-15 Date Collected: 10/21/15 14:05

Client ID: SS-6 (4-5) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.15	1
1,4-Dioxane	ND		ug/kg	110	15.	1
p-Diethylbenzene	ND		ug/kg	4.3	0.17	1
p-Ethyltoluene	ND		ug/kg	4.3	0.13	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.14	1
Ethyl ether	ND		ug/kg	5.4	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-16
Client ID: FIELD BLANK
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/22/15 19:50
Analyst: MS

Date Collected: 10/21/15 11:05
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-16 Date Collected: 10/21/15 11:05

Client ID: FIELD BLANK Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.2	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-16 Date Collected: 10/21/15 11:05

Client ID: FIELD BLANK Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	92		70-130

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-17
Client ID: TRIP BLANK
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/22/15 20:25
Analyst: MS

Date Collected: 10/21/15 00:00
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-17 Date Collected: 10/21/15 00:00

Client ID: TRIP BLANK Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.9	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-17 Date Collected: 10/21/15 00:00

Client ID: TRIP BLANK Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	94		70-130

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/22/15 15:51
Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 16-17 Batch: WG833382-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/22/15 15:51
Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 16-17 Batch: WG833382-3					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/22/15 15:51
Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 16-17 Batch: WG833382-3					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	41.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	94		70-130

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/15 21:08
Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-07,09-10,12-13,15 Batch: WG834590-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/15 21:08
Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-07,09-10,12-13,15 Batch: WG834590-3					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylenes, Total	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14
o-Chlorotoluene	ND		ug/kg	5.0	0.16

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/15 21:08
Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-07,09-10,12-13,15 Batch: WG834590-3					
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,4-Dioxane	ND		ug/kg	100	14.
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	107		70-130

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/27/15 11:11
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG834677-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/27/15 11:11
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG834677-3					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylenes, Total	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14
o-Chlorotoluene	ND		ug/kg	5.0	0.16

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/27/15 11:11
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG834677-3					
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,4-Dioxane	ND		ug/kg	100	14.
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	93		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 16-17 Batch: WG833382-1 WG833382-2								
Methylene chloride	108		102		70-130	6		20
1,1-Dichloroethane	108		98		70-130	10		20
Chloroform	107		100		70-130	7		20
2-Chloroethylvinyl ether	92		97		70-130	5		20
Carbon tetrachloride	106		99		63-132	7		20
1,2-Dichloropropane	105		96		70-130	9		20
Dibromochloromethane	113		102		63-130	10		20
1,1,2-Trichloroethane	109		102		70-130	7		20
Tetrachloroethene	116		102		70-130	13		20
Chlorobenzene	106		96		75-130	10		20
Trichlorofluoromethane	124		117		62-150	6		20
1,2-Dichloroethane	112		107		70-130	5		20
1,1,1-Trichloroethane	115		107		67-130	7		20
Bromodichloromethane	110		101		67-130	9		20
trans-1,3-Dichloropropene	91		84		70-130	8		20
cis-1,3-Dichloropropene	100		96		70-130	4		20
1,1-Dichloropropene	111		106		70-130	5		20
Bromoform	102		95		54-136	7		20
1,1,2,2-Tetrachloroethane	100		94		67-130	6		20
Benzene	104		100		70-130	4		20
Toluene	107		96		70-130	11		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 16-17 Batch: WG833382-1 WG833382-2								
Ethylbenzene	113		101		70-130	11		20
Chloromethane	**55**	Q	68		64-130	**21**	Q	20
Bromomethane	66		64		39-139	3		20
Vinyl chloride	102		92		55-140	10		20
Chloroethane	106		103		55-138	3		20
1,1-Dichloroethene	112		104		61-145	7		20
trans-1,2-Dichloroethene	106		100		70-130	6		20
Trichloroethene	107		100		70-130	7		20
1,2-Dichlorobenzene	104		97		70-130	7		20
1,3-Dichlorobenzene	99		92		70-130	7		20
1,4-Dichlorobenzene	98		93		70-130	5		20
Methyl tert butyl ether	107		106		63-130	1		20
p/m-Xylene	112		101		70-130	10		20
o-Xylene	113		102		70-130	10		20
cis-1,2-Dichloroethene	98		95		70-130	3		20
Dibromomethane	107		104		70-130	3		20
1,2,3-Trichloropropane	96		92		64-130	4		20
Acrylonitrile	106		100		70-130	6		20
Isopropyl Ether	102		97		70-130	5		20
tert-Butyl Alcohol	96		114		70-130	17		20
Styrene	113		104		70-130	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 16-17 Batch: WG833382-1 WG833382-2								
Dichlorodifluoromethane	105		96		36-147	9		20
Acetone	123		121		58-148	2		20
Carbon disulfide	114		99		51-130	14		20
2-Butanone	125		130		63-138	4		20
Vinyl acetate	86		87		70-130	1		20
4-Methyl-2-pentanone	110		114		59-130	4		20
2-Hexanone	111		110		57-130	1		20
Acrolein	92		97		40-160	5		20
Bromochloromethane	122		116		70-130	5		20
2,2-Dichloropropane	95		87		63-133	9		20
1,2-Dibromoethane	104		99		70-130	5		20
1,3-Dichloropropane	107		99		70-130	8		20
1,1,1,2-Tetrachloroethane	115		103		64-130	11		20
Bromobenzene	96		87		70-130	10		20
n-Butylbenzene	105		95		53-136	10		20
sec-Butylbenzene	109		95		70-130	14		20
tert-Butylbenzene	105		90		70-130	15		20
o-Chlorotoluene	99		87		70-130	13		20
p-Chlorotoluene	98		89		70-130	10		20
1,2-Dibromo-3-chloropropane	124		125		41-144	1		20
Hexachlorobutadiene	122		108		63-130	12		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 16-17 Batch: WG833382-1 WG833382-2								
Isopropylbenzene	116		104		70-130	11		20
p-Isopropyltoluene	106		94		70-130	12		20
Naphthalene	**189**	Q	**207**	Q	70-130	9		20
n-Propylbenzene	104		92		69-130	12		20
1,2,3-Trichlorobenzene	**188**	Q	**189**	Q	70-130	1		20
1,2,4-Trichlorobenzene	**148**	Q	**147**	Q	70-130	1		20
1,3,5-Trimethylbenzene	104		93		64-130	11		20
1,2,4-Trimethylbenzene	103		94		70-130	9		20
Methyl Acetate	103		108		70-130	5		20
Ethyl Acetate	105		109		70-130	4		20
Cyclohexane	112		104		70-130	7		20
Ethyl-Tert-Butyl-Ether	103		99		70-130	4		20
Tertiary-Amyl Methyl Ether	104		98		66-130	6		20
1,4-Dioxane	121		111		56-162	9		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		104		70-130	6		20
p-Diethylbenzene	115		105		70-130	9		20
p-Ethyltoluene	104		93		70-130	11		20
1,2,4,5-Tetramethylbenzene	104		93		70-130	11		20
Ethyl ether	108		104		59-134	4		20
trans-1,4-Dichloro-2-butene	88		82		70-130	7		20
Iodomethane	**21**	Q	**23**	Q	70-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 16-17 Batch: WG833382-1 WG833382-2								
Methyl cyclohexane	114		102		70-130	11		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		103		70-130
Toluene-d8	98		95		70-130
4-Bromofluorobenzene	89		87		70-130
Dibromofluoromethane	98		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-07,09-10,12-13,15 Batch: WG834590-1 WG834590-2								
Methylene chloride	103		100		70-130	3		30
1,1-Dichloroethane	102		98		70-130	4		30
Chloroform	107		104		70-130	3		30
Carbon tetrachloride	119		116		70-130	3		30
1,2-Dichloropropane	97		93		70-130	4		30
Dibromochloromethane	94		91		70-130	3		30
2-Chloroethylvinyl ether	**305**	Q	**255**	Q	70-130	18		30
1,1,2-Trichloroethane	87		86		70-130	1		30
Tetrachloroethene	91		91		70-130	0		30
Chlorobenzene	87		86		70-130	1		30
Trichlorofluoromethane	114		111		70-139	3		30
1,2-Dichloroethane	115		108		70-130	6		30
1,1,1-Trichloroethane	118		113		70-130	4		30
Bromodichloromethane	108		103		70-130	5		30
trans-1,3-Dichloropropene	93		93		70-130	0		30
cis-1,3-Dichloropropene	104		99		70-130	5		30
1,1-Dichloropropene	107		104		70-130	3		30
Bromoform	87		84		70-130	4		30
1,1,2,2-Tetrachloroethane	80		75		70-130	6		30
Benzene	100		97		70-130	3		30
Toluene	86		87		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-07,09-10,12-13,15 Batch: WG834590-1 WG834590-2								
Ethylbenzene	89		87		70-130	2		30
Chloromethane	89		88		52-130	1		30
Bromomethane	90		93		57-147	3		30
Vinyl chloride	79		79		67-130	0		30
Chloroethane	89		87		50-151	2		30
1,1-Dichloroethene	86		84		65-135	2		30
trans-1,2-Dichloroethene	103		100		70-130	3		30
Trichloroethene	105		102		70-130	3		30
1,2-Dichlorobenzene	85		83		70-130	2		30
1,3-Dichlorobenzene	82		83		70-130	1		30
1,4-Dichlorobenzene	84		82		70-130	2		30
Methyl tert butyl ether	117		110		66-130	6		30
p/m-Xylene	89		88		70-130	1		30
o-Xylene	91		91		70-130	0		30
cis-1,2-Dichloroethene	103		99		70-130	4		30
Dibromomethane	109		102		70-130	7		30
Styrene	91		89		70-130	2		30
Dichlorodifluoromethane	73		71		30-146	3		30
Acetone	112		102		54-140	9		30
Carbon disulfide	94		86		59-130	9		30
2-Butanone	116		101		70-130	14		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-07,09-10,12-13,15 Batch: WG834590-1 WG834590-2								
Vinyl acetate	105		100		70-130	5		30
4-Methyl-2-pentanone	102		95		70-130	7		30
1,2,3-Trichloropropane	84		79		68-130	6		30
2-Hexanone	89		80		70-130	11		30
Bromochloromethane	108		102		70-130	6		30
2,2-Dichloropropane	114		109		70-130	4		30
1,2-Dibromoethane	92		88		70-130	4		30
1,3-Dichloropropane	90		86		69-130	5		30
1,1,1,2-Tetrachloroethane	92		90		70-130	2		30
Bromobenzene	81		80		70-130	1		30
n-Butylbenzene	84		83		70-130	1		30
sec-Butylbenzene	83		80		70-130	4		30
tert-Butylbenzene	85		84		70-130	1		30
o-Chlorotoluene	81		79		70-130	3		30
p-Chlorotoluene	84		82		70-130	2		30
1,2-Dibromo-3-chloropropane	87		82		68-130	6		30
Hexachlorobutadiene	91		90		67-130	1		30
Isopropylbenzene	90		90		70-130	0		30
p-Isopropyltoluene	85		86		70-130	1		30
Naphthalene	90		86		70-130	5		30
Acrylonitrile	101		95		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-07,09-10,12-13,15 Batch: WG834590-1 WG834590-2								
Isopropyl Ether	94		90		66-130	4		30
tert-Butyl Alcohol	122		108		70-130	12		30
n-Propylbenzene	82		81		70-130	1		30
1,2,3-Trichlorobenzene	89		84		70-130	6		30
1,2,4-Trichlorobenzene	90		88		70-130	2		30
1,3,5-Trimethylbenzene	85		83		70-130	2		30
1,2,4-Trimethylbenzene	84		82		70-130	2		30
Methyl Acetate	100		95		51-146	5		30
Ethyl Acetate	98		93		70-130	5		30
Acrolein	95		90		70-130	5		30
Cyclohexane	110		107		59-142	3		30
1,4-Dioxane	**139**	Q	124		65-136	11		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	104		96		50-139	8		30
p-Diethylbenzene	111		108		70-130	3		30
p-Ethyltoluene	107		102		70-130	5		30
1,2,4,5-Tetramethylbenzene	114		110		70-130	4		30
Tetrahydrofuran	96		85		66-130	12		30
Ethyl ether	93		90		67-130	3		30
trans-1,4-Dichloro-2-butene	88		79		70-130	11		30
Methyl cyclohexane	118		113		70-130	4		30
Ethyl-Tert-Butyl-Ether	108		103		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab	Associated sample(s): 04-07,09-10,12-13,15		Batch: WG834590-1 WG834590-2					
Tertiary-Amyl Methyl Ether	110		105		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		107		70-130
Toluene-d8	93		95		70-130
4-Bromofluorobenzene	99		97		70-130
Dibromofluoromethane	108		105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG834677-1 WG834677-2								
Methylene chloride	89		88		70-130	1		30
1,1-Dichloroethane	94		93		70-130	1		30
Chloroform	94		92		70-130	2		30
Carbon tetrachloride	101		99		70-130	2		30
1,2-Dichloropropane	90		89		70-130	1		30
Dibromochloromethane	91		92		70-130	1		30
2-Chloroethylvinyl ether	79		81		70-130	3		30
1,1,2-Trichloroethane	89		91		70-130	2		30
Tetrachloroethene	105		102		70-130	3		30
Chlorobenzene	97		96		70-130	1		30
Trichlorofluoromethane	100		97		70-139	3		30
1,2-Dichloroethane	86		87		70-130	1		30
1,1,1-Trichloroethane	100		98		70-130	2		30
Bromodichloromethane	87		87		70-130	0		30
trans-1,3-Dichloropropene	89		90		70-130	1		30
cis-1,3-Dichloropropene	89		89		70-130	0		30
1,1-Dichloropropene	101		98		70-130	3		30
Bromoform	83		87		70-130	5		30
1,1,2,2-Tetrachloroethane	82		85		70-130	4		30
Benzene	95		93		70-130	2		30
Toluene	99		97		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG834677-1 WG834677-2								
Ethylbenzene	99		97		70-130	2		30
Chloromethane	84		81		52-130	4		30
Bromomethane	92		93		57-147	1		30
Vinyl chloride	97		93		67-130	4		30
Chloroethane	105		101		50-151	4		30
1,1-Dichloroethene	100		97		65-135	3		30
trans-1,2-Dichloroethene	99		95		70-130	4		30
Trichloroethene	99		97		70-130	2		30
1,2-Dichlorobenzene	92		94		70-130	2		30
1,3-Dichlorobenzene	95		95		70-130	0		30
1,4-Dichlorobenzene	94		94		70-130	0		30
Methyl tert butyl ether	83		85		66-130	2		30
p/m-Xylene	103		100		70-130	3		30
o-Xylene	99		98		70-130	1		30
cis-1,2-Dichloroethene	94		92		70-130	2		30
Dibromomethane	85		86		70-130	1		30
Styrene	98		96		70-130	2		30
Dichlorodifluoromethane	78		76		30-146	3		30
Acetone	73		71		54-140	3		30
Carbon disulfide	99		101		59-130	2		30
2-Butanone	74		78		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG834677-1 WG834677-2								
Vinyl acetate	80		82		70-130	2		30
4-Methyl-2-pentanone	72		77		70-130	7		30
1,2,3-Trichloropropane	83		87		68-130	5		30
2-Hexanone	73		78		70-130	7		30
Bromochloromethane	92		93		70-130	1		30
2,2-Dichloropropane	101		97		70-130	4		30
1,2-Dibromoethane	87		89		70-130	2		30
1,3-Dichloropropane	89		89		69-130	0		30
1,1,1,2-Tetrachloroethane	97		96		70-130	1		30
Bromobenzene	90		91		70-130	1		30
n-Butylbenzene	101		100		70-130	1		30
sec-Butylbenzene	101		100		70-130	1		30
tert-Butylbenzene	99		98		70-130	1		30
o-Chlorotoluene	96		95		70-130	1		30
p-Chlorotoluene	95		95		70-130	0		30
1,2-Dibromo-3-chloropropane	71		78		68-130	9		30
Hexachlorobutadiene	100		100		67-130	0		30
Isopropylbenzene	104		101		70-130	3		30
p-Isopropyltoluene	101		100		70-130	1		30
Naphthalene	82		85		70-130	4		30
Acrylonitrile	75		77		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG834677-1 WG834677-2								
Isopropyl Ether	87		86		66-130	1		30
tert-Butyl Alcohol	71		75		70-130	5		30
n-Propylbenzene	98		96		70-130	2		30
1,2,3-Trichlorobenzene	90		91		70-130	1		30
1,2,4-Trichlorobenzene	93		94		70-130	1		30
1,3,5-Trimethylbenzene	99		98		70-130	1		30
1,2,4-Trimethylbenzene	96		96		70-130	0		30
Methyl Acetate	75		78		51-146	4		30
Ethyl Acetate	76		76		70-130	0		30
Acrolein	76		79		70-130	4		30
Cyclohexane	99		97		59-142	2		30
1,4-Dioxane	77		79		65-136	3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	101		100		50-139	1		30
p-Diethylbenzene	101		101		70-130	0		30
p-Ethyltoluene	101		100		70-130	1		30
1,2,4,5-Tetramethylbenzene	97		96		70-130	1		30
Tetrahydrofuran	78		80		66-130	3		30
Ethyl ether	85		86		67-130	1		30
trans-1,4-Dichloro-2-butene	82		87		70-130	6		30
Methyl cyclohexane	101		97		70-130	4		30
Ethyl-Tert-Butyl-Ether	86		86		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG834677-1 WG834677-2								
Tertiary-Amyl Methyl Ether	85		85		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	92		93		70-130
Dibromofluoromethane	100		100		70-130

SEMIVOLATILES

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-01
Client ID: SS-8 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/27/15 12:22
Analyst: JB
Percent Solids: 90%

Date Collected: 10/21/15 09:30
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/23/15 18:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	700		ug/kg	140	37.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	59.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	51.	1
2-Chloronaphthalene	ND		ug/kg	180	59.	1
1,2-Dichlorobenzene	ND		ug/kg	180	59.	1
1,3-Dichlorobenzene	ND		ug/kg	180	57.	1
1,4-Dichlorobenzene	ND		ug/kg	180	55.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	39.	1
2,6-Dinitrotoluene	ND		ug/kg	180	46.	1
Fluoranthene	5000		ug/kg	110	33.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	55.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	64.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	55.	1
Hexachlorobutadiene	ND		ug/kg	180	51.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	120	1
Hexachloroethane	ND		ug/kg	140	33.	1
Isophorone	ND		ug/kg	160	48.	1
Naphthalene	300		ug/kg	180	60.	1
Nitrobenzene	ND		ug/kg	160	43.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	38.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	54.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	47.	1
Butyl benzyl phthalate	ND		ug/kg	180	35.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	44.	1
Diethyl phthalate	ND		ug/kg	180	38.	1
Dimethyl phthalate	ND		ug/kg	180	46.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-01 Date Collected: 10/21/15 09:30

Client ID: SS-8 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	2600		ug/kg	110	35.	1
Benzo(a)pyrene	1900		ug/kg	140	44.	1
Benzo(b)fluoranthene	2300		ug/kg	110	36.	1
Benzo(k)fluoranthene	1100		ug/kg	110	34.	1
Chrysene	2600		ug/kg	110	36.	1
Acenaphthylene	120	J	ug/kg	140	34.	1
Anthracene	1600		ug/kg	110	30.	1
Benzo(ghi)perylene	920		ug/kg	140	38.	1
Fluorene	570		ug/kg	180	52.	1
Phenanthrene	5000		ug/kg	110	35.	1
Dibenzo(a,h)anthracene	290		ug/kg	110	35.	1
Indeno(1,2,3-cd)Pyrene	1100		ug/kg	140	40.	1
Pyrene	4200		ug/kg	110	35.	1
Biphenyl	63	J	ug/kg	410	60.	1
4-Chloroaniline	ND		ug/kg	180	48.	1
2-Nitroaniline	ND		ug/kg	180	51.	1
3-Nitroaniline	ND		ug/kg	180	50.	1
4-Nitroaniline	ND		ug/kg	180	49.	1
Dibenzofuran	490		ug/kg	180	60.	1
2-Methylnaphthalene	220		ug/kg	220	58.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	56.	1
Acetophenone	ND		ug/kg	180	56.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
P-Chloro-M-Cresol	ND		ug/kg	180	52.	1
2-Chlorophenol	ND		ug/kg	180	54.	1
2,4-Dichlorophenol	ND		ug/kg	160	58.	1
2,4-Dimethylphenol	ND		ug/kg	180	54.	1
2-Nitrophenol	ND		ug/kg	390	56.	1
4-Nitrophenol	ND		ug/kg	250	58.	1
2,4-Dinitrophenol	ND		ug/kg	870	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	66.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	58.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	59.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	58.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	640		ug/kg	180	39.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-01 Date Collected: 10/21/15 09:30

Client ID: SS-8 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	111		10-136
4-Terphenyl-d14	89		18-120

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-02
Client ID: SS-8 (11-13)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/27/15 12:47
Analyst: JB
Percent Solids: 93%

Date Collected: 10/21/15 09:40
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/23/15 18:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	36.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	57.	1
Hexachlorobenzene	ND		ug/kg	100	32.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	49.	1
2-Chloronaphthalene	ND		ug/kg	170	57.	1
1,2-Dichlorobenzene	ND		ug/kg	170	57.	1
1,3-Dichlorobenzene	ND		ug/kg	170	55.	1
1,4-Dichlorobenzene	ND		ug/kg	170	53.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	38.	1
2,6-Dinitrotoluene	ND		ug/kg	170	44.	1
Fluoranthene	36	J	ug/kg	100	32.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	53.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	40.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	61.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	53.	1
Hexachlorobutadiene	ND		ug/kg	170	49.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	110	1
Hexachloroethane	ND		ug/kg	140	32.	1
Isophorone	ND		ug/kg	160	46.	1
Naphthalene	ND		ug/kg	170	58.	1
Nitrobenzene	ND		ug/kg	160	41.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	36.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	52.	1
Bis(2-Ethylhexyl)phthalate	150	J	ug/kg	170	46.	1
Butyl benzyl phthalate	ND		ug/kg	170	34.	1
Di-n-butylphthalate	ND		ug/kg	170	34.	1
Di-n-octylphthalate	ND		ug/kg	170	43.	1
Diethyl phthalate	ND		ug/kg	170	37.	1
Dimethyl phthalate	ND		ug/kg	170	44.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-02 Date Collected: 10/21/15 09:40

Client ID: SS-8 (11-13) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	100	34.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	35.	1
Benzo(k)fluoranthene	ND		ug/kg	100	33.	1
Chrysene	ND		ug/kg	100	34.	1
Acenaphthylene	ND		ug/kg	140	32.	1
Anthracene	ND		ug/kg	100	29.	1
Benzo(ghi)perylene	ND		ug/kg	140	36.	1
Fluorene	ND		ug/kg	170	50.	1
Phenanthrene	ND		ug/kg	100	34.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	34.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	140	38.	1
Pyrene	ND		ug/kg	100	34.	1
Biphenyl	ND		ug/kg	400	57.	1
4-Chloroaniline	ND		ug/kg	170	46.	1
2-Nitroaniline	ND		ug/kg	170	49.	1
3-Nitroaniline	ND		ug/kg	170	48.	1
4-Nitroaniline	ND		ug/kg	170	47.	1
Dibenzofuran	ND		ug/kg	170	58.	1
2-Methylnaphthalene	ND		ug/kg	210	56.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	54.	1
Acetophenone	ND		ug/kg	170	54.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
P-Chloro-M-Cresol	ND		ug/kg	170	50.	1
2-Chlorophenol	ND		ug/kg	170	52.	1
2,4-Dichlorophenol	ND		ug/kg	160	56.	1
2,4-Dimethylphenol	ND		ug/kg	170	52.	1
2-Nitrophenol	ND		ug/kg	380	54.	1
4-Nitrophenol	ND		ug/kg	240	56.	1
2,4-Dinitrophenol	ND		ug/kg	830	240	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	64.	1
Pentachlorophenol	ND		ug/kg	140	37.	1
Phenol	ND		ug/kg	170	51.	1
2-Methylphenol	ND		ug/kg	170	56.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	57.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	56.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	54.	1
Carbazole	ND		ug/kg	170	37.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-02 Date Collected: 10/21/15 09:40

Client ID: SS-8 (11-13) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	80		18-120

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-03	Date Collected:	10/21/15 09:55
Client ID:	SS-7 (0-2)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	10/23/15 18:21
Analytical Date:	10/27/15 13:12		
Analyst:	JB		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	200		ug/kg	140	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	60.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	51.	1
2-Chloronaphthalene	ND		ug/kg	180	59.	1
1,2-Dichlorobenzene	ND		ug/kg	180	60.	1
1,3-Dichlorobenzene	ND		ug/kg	180	58.	1
1,4-Dichlorobenzene	ND		ug/kg	180	55.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	39.	1
2,6-Dinitrotoluene	ND		ug/kg	180	47.	1
Fluoranthene	1400		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	56.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	64.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	55.	1
Hexachlorobutadiene	ND		ug/kg	180	51.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	120	1
Hexachloroethane	ND		ug/kg	140	33.	1
Isophorone	ND		ug/kg	160	48.	1
Naphthalene	210		ug/kg	180	60.	1
Nitrobenzene	ND		ug/kg	160	43.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	38.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	54.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	48.	1
Butyl benzyl phthalate	ND		ug/kg	180	36.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	45.	1
Diethyl phthalate	ND		ug/kg	180	38.	1
Dimethyl phthalate	ND		ug/kg	180	46.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-03 Date Collected: 10/21/15 09:55

Client ID: SS-7 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	600		ug/kg	110	36.	1
Benzo(a)pyrene	480		ug/kg	140	45.	1
Benzo(b)fluoranthene	600		ug/kg	110	37.	1
Benzo(k)fluoranthene	250		ug/kg	110	35.	1
Chrysene	600		ug/kg	110	36.	1
Acenaphthylene	85	J	ug/kg	140	34.	1
Anthracene	340		ug/kg	110	30.	1
Benzo(ghi)perylene	260		ug/kg	140	38.	1
Fluorene	190		ug/kg	180	52.	1
Phenanthrene	1600		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	70	J	ug/kg	110	35.	1
Indeno(1,2,3-cd)Pyrene	290		ug/kg	140	40.	1
Pyrene	1200		ug/kg	110	35.	1
Biphenyl	ND		ug/kg	420	60.	1
4-Chloroaniline	ND		ug/kg	180	48.	1
2-Nitroaniline	ND		ug/kg	180	51.	1
3-Nitroaniline	ND		ug/kg	180	50.	1
4-Nitroaniline	ND		ug/kg	180	49.	1
Dibenzofuran	160	J	ug/kg	180	61.	1
2-Methylnaphthalene	110	J	ug/kg	220	58.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	56.	1
Acetophenone	ND		ug/kg	180	56.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
P-Chloro-M-Cresol	ND		ug/kg	180	53.	1
2-Chlorophenol	ND		ug/kg	180	55.	1
2,4-Dichlorophenol	ND		ug/kg	160	59.	1
2,4-Dimethylphenol	ND		ug/kg	180	54.	1
2-Nitrophenol	ND		ug/kg	390	57.	1
4-Nitrophenol	ND		ug/kg	260	59.	1
2,4-Dinitrophenol	ND		ug/kg	880	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	67.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	59.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	60.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	59.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	170	J	ug/kg	180	39.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-03 Date Collected: 10/21/15 09:55

Client ID: SS-7 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	98		10-136
4-Terphenyl-d14	83		18-120

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-04
Client ID: SS-7 (9-11)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/27/15 13:38
Analyst: JB
Percent Solids: 86%

Date Collected: 10/21/15 10:00
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/23/15 18:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	49.	1
Fluoranthene	55	J	ug/kg	110	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	67.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	58.	1
Hexachlorobutadiene	ND		ug/kg	190	54.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	35.	1
Isophorone	ND		ug/kg	170	51.	1
Naphthalene	ND		ug/kg	190	63.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	57.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-04 Date Collected: 10/21/15 10:00

Client ID: SS-7 (9-11) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	110	37.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	ND		ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	36.	1
Anthracene	ND		ug/kg	110	32.	1
Benzo(ghi)perylene	ND		ug/kg	150	40.	1
Fluorene	ND		ug/kg	190	55.	1
Phenanthrene	ND		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	37.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	50	J	ug/kg	110	37.	1
Biphenyl	ND		ug/kg	430	63.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	54.	1
3-Nitroaniline	ND		ug/kg	190	53.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	64.	1
2-Methylnaphthalene	ND		ug/kg	230	61.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	59.	1
Acetophenone	ND		ug/kg	190	59.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	55.	1
2-Chlorophenol	ND		ug/kg	190	58.	1
2,4-Dichlorophenol	ND		ug/kg	170	62.	1
2,4-Dimethylphenol	ND		ug/kg	190	57.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	270	62.	1
2,4-Dinitrophenol	ND		ug/kg	920	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	70.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	61.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	62.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	41.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-04 Date Collected: 10/21/15 10:00

Client ID: SS-7 (9-11) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	108		10-136
4-Terphenyl-d14	93		18-120

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-05	Date Collected:	10/21/15 10:23
Client ID:	SS-3A (6-8)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	10/23/15 18:21
Analytical Date:	10/27/15 14:04		
Analyst:	JB		
Percent Solids:	83%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	64.	1
Hexachlorobenzene	ND		ug/kg	120	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	55.	1
2-Chloronaphthalene	ND		ug/kg	200	64.	1
1,2-Dichlorobenzene	ND		ug/kg	200	64.	1
1,3-Dichlorobenzene	ND		ug/kg	200	62.	1
1,4-Dichlorobenzene	ND		ug/kg	200	60.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	42.	1
2,6-Dinitrotoluene	ND		ug/kg	200	50.	1
Fluoranthene	330		ug/kg	120	36.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	60.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	45.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	69.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	59.	1
Hexachlorobutadiene	ND		ug/kg	200	55.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	120	1
Hexachloroethane	ND		ug/kg	160	36.	1
Isophorone	ND		ug/kg	180	52.	1
Naphthalene	ND		ug/kg	200	65.	1
Nitrobenzene	ND		ug/kg	180	47.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	160	41.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	58.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	200	51.	1
Butyl benzyl phthalate	ND		ug/kg	200	38.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	48.	1
Diethyl phthalate	ND		ug/kg	200	41.	1
Dimethyl phthalate	ND		ug/kg	200	50.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-05 Date Collected: 10/21/15 10:23

Client ID: SS-3A (6-8) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	200		ug/kg	120	38.	1
Benzo(a)pyrene	190		ug/kg	160	48.	1
Benzo(b)fluoranthene	230		ug/kg	120	40.	1
Benzo(k)fluoranthene	86	J	ug/kg	120	37.	1
Chrysene	180		ug/kg	120	38.	1
Acenaphthylene	ND		ug/kg	160	37.	1
Anthracene	54	J	ug/kg	120	33.	1
Benzo(ghi)perylene	96	J	ug/kg	160	41.	1
Fluorene	ND		ug/kg	200	56.	1
Phenanthrene	170		ug/kg	120	38.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	38.	1
Indeno(1,2,3-cd)Pyrene	110	J	ug/kg	160	43.	1
Pyrene	310		ug/kg	120	38.	1
Biphenyl	ND		ug/kg	450	65.	1
4-Chloroaniline	ND		ug/kg	200	52.	1
2-Nitroaniline	ND		ug/kg	200	55.	1
3-Nitroaniline	ND		ug/kg	200	54.	1
4-Nitroaniline	ND		ug/kg	200	53.	1
Dibenzofuran	ND		ug/kg	200	65.	1
2-Methylnaphthalene	ND		ug/kg	240	62.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	61.	1
Acetophenone	ND		ug/kg	200	61.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
P-Chloro-M-Cresol	ND		ug/kg	200	57.	1
2-Chlorophenol	ND		ug/kg	200	59.	1
2,4-Dichlorophenol	ND		ug/kg	180	63.	1
2,4-Dimethylphenol	ND		ug/kg	200	58.	1
2-Nitrophenol	ND		ug/kg	420	61.	1
4-Nitrophenol	ND		ug/kg	270	63.	1
2,4-Dinitrophenol	ND		ug/kg	940	270	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	72.	1
Pentachlorophenol	ND		ug/kg	160	42.	1
Phenol	ND		ug/kg	200	58.	1
2-Methylphenol	ND		ug/kg	200	63.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	64.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	63.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	42.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-05 Date Collected: 10/21/15 10:23

Client ID: SS-3A (6-8) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	77		18-120

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-06
Client ID: SS-4 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/27/15 14:29
Analyst: JB
Percent Solids: 84%

Date Collected: 10/21/15 10:30
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/23/15 18:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	3000		ug/kg	160	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	64.	1
Hexachlorobenzene	ND		ug/kg	120	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	55.	1
2-Chloronaphthalene	ND		ug/kg	200	64.	1
1,2-Dichlorobenzene	ND		ug/kg	200	64.	1
1,3-Dichlorobenzene	ND		ug/kg	200	61.	1
1,4-Dichlorobenzene	ND		ug/kg	200	59.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	42.	1
2,6-Dinitrotoluene	ND		ug/kg	200	50.	1
Fluoranthene	21000	E	ug/kg	120	36.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	59.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	45.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	69.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	59.	1
Hexachlorobutadiene	ND		ug/kg	200	55.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	120	1
Hexachloroethane	ND		ug/kg	160	35.	1
Isophorone	ND		ug/kg	180	52.	1
Naphthalene	3300		ug/kg	200	65.	1
Nitrobenzene	ND		ug/kg	180	46.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	160	41.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	58.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	200	51.	1
Butyl benzyl phthalate	ND		ug/kg	200	38.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	48.	1
Diethyl phthalate	ND		ug/kg	200	41.	1
Dimethyl phthalate	ND		ug/kg	200	50.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-06 Date Collected: 10/21/15 10:30

Client ID: SS-4 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	11000	E	ug/kg	120	38.	1
Benzo(a)pyrene	9800	E	ug/kg	160	48.	1
Benzo(b)fluoranthene	12000	E	ug/kg	120	39.	1
Benzo(k)fluoranthene	3900		ug/kg	120	37.	1
Chrysene	11000	E	ug/kg	120	38.	1
Acenaphthylene	310		ug/kg	160	36.	1
Anthracene	6600		ug/kg	120	32.	1
Benzo(ghi)perylene	7400		ug/kg	160	40.	1
Fluorene	2300		ug/kg	200	56.	1
Phenanthrene	20000	E	ug/kg	120	38.	1
Dibenzo(a,h)anthracene	1600		ug/kg	120	38.	1
Indeno(1,2,3-cd)Pyrene	7900	E	ug/kg	160	43.	1
Pyrene	20000	E	ug/kg	120	38.	1
Biphenyl	520		ug/kg	440	64.	1
4-Chloroaniline	ND		ug/kg	200	51.	1
2-Nitroaniline	ND		ug/kg	200	55.	1
3-Nitroaniline	ND		ug/kg	200	54.	1
4-Nitroaniline	ND		ug/kg	200	53.	1
Dibenzofuran	1800		ug/kg	200	65.	1
2-Methylnaphthalene	1600		ug/kg	230	62.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	60.	1
Acetophenone	ND		ug/kg	200	60.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
P-Chloro-M-Cresol	ND		ug/kg	200	56.	1
2-Chlorophenol	ND		ug/kg	200	59.	1
2,4-Dichlorophenol	ND		ug/kg	180	63.	1
2,4-Dimethylphenol	62	J	ug/kg	200	58.	1
2-Nitrophenol	ND		ug/kg	420	61.	1
4-Nitrophenol	ND		ug/kg	270	63.	1
2,4-Dinitrophenol	ND		ug/kg	940	270	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	71.	1
Pentachlorophenol	ND		ug/kg	160	42.	1
Phenol	ND		ug/kg	200	58.	1
2-Methylphenol	ND		ug/kg	200	63.	1
3-Methylphenol/4-Methylphenol	94	J	ug/kg	280	64.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	63.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	2700		ug/kg	200	42.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-06 Date Collected: 10/21/15 10:30

Client ID: SS-4 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	93		18-120

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-06 D
Client ID: SS-4 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/28/15 12:10
Analyst: JB
Percent Solids: 84%

Date Collected: 10/21/15 10:30
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/23/15 18:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	36000		ug/kg	1200	360	10
Benzo(a)anthracene	13000		ug/kg	1200	380	10
Benzo(a)pyrene	12000		ug/kg	1600	480	10
Benzo(b)fluoranthene	14000		ug/kg	1200	390	10
Chrysene	14000		ug/kg	1200	380	10
Phenanthrene	35000		ug/kg	1200	380	10
Indeno(1,2,3-cd)Pyrene	7400		ug/kg	1600	430	10
Pyrene	33000		ug/kg	1200	380	10

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-07	Date Collected:	10/21/15 10:40
Client ID:	SS-4 (6-8)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	10/23/15 18:21
Analytical Date:	10/27/15 14:54		
Analyst:	JB		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	60.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	52.	1
2-Chloronaphthalene	ND		ug/kg	180	60.	1
1,2-Dichlorobenzene	ND		ug/kg	180	60.	1
1,3-Dichlorobenzene	ND		ug/kg	180	58.	1
1,4-Dichlorobenzene	ND		ug/kg	180	56.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	40.	1
2,6-Dinitrotoluene	ND		ug/kg	180	47.	1
Fluoranthene	150		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	56.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	65.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	56.	1
Hexachlorobutadiene	ND		ug/kg	180	52.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	160	49.	1
Naphthalene	68	J	ug/kg	180	61.	1
Nitrobenzene	ND		ug/kg	160	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	55.	1
Bis(2-Ethylhexyl)phthalate	180		ug/kg	180	48.	1
Butyl benzyl phthalate	ND		ug/kg	180	36.	1
Di-n-butylphthalate	ND		ug/kg	180	36.	1
Di-n-octylphthalate	ND		ug/kg	180	45.	1
Diethyl phthalate	ND		ug/kg	180	39.	1
Dimethyl phthalate	ND		ug/kg	180	47.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-07 Date Collected: 10/21/15 10:40

Client ID: SS-4 (6-8) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	70	J	ug/kg	110	36.	1
Benzo(a)pyrene	60	J	ug/kg	150	45.	1
Benzo(b)fluoranthene	72	J	ug/kg	110	37.	1
Benzo(k)fluoranthene	ND		ug/kg	110	35.	1
Chrysene	70	J	ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	150	34.	1
Anthracene	34	J	ug/kg	110	31.	1
Benzo(ghi)perylene	40	J	ug/kg	150	38.	1
Fluorene	ND		ug/kg	180	53.	1
Phenanthrene	170		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	41.	1
Pyrene	130		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	420	61.	1
4-Chloroaniline	ND		ug/kg	180	49.	1
2-Nitroaniline	ND		ug/kg	180	52.	1
3-Nitroaniline	ND		ug/kg	180	51.	1
4-Nitroaniline	ND		ug/kg	180	50.	1
Dibenzofuran	ND		ug/kg	180	62.	1
2-Methylnaphthalene	74	J	ug/kg	220	59.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	57.	1
Acetophenone	ND		ug/kg	180	57.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
P-Chloro-M-Cresol	ND		ug/kg	180	53.	1
2-Chlorophenol	ND		ug/kg	180	56.	1
2,4-Dichlorophenol	ND		ug/kg	160	60.	1
2,4-Dimethylphenol	ND		ug/kg	180	55.	1
2-Nitrophenol	ND		ug/kg	400	58.	1
4-Nitrophenol	ND		ug/kg	260	60.	1
2,4-Dinitrophenol	ND		ug/kg	880	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	67.	1
Pentachlorophenol	ND		ug/kg	150	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	59.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	60.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	60.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	ND		ug/kg	180	40.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-07 Date Collected: 10/21/15 10:40

Client ID: SS-4 (6-8) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	82		18-120

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-09
Client ID: SS-2A (6-8)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/27/15 15:21
Analyst: JB
Percent Solids: 83%

Date Collected: 10/21/15 10:54
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/23/15 18:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	70	J	ug/kg	160	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	64.	1
Hexachlorobenzene	ND		ug/kg	120	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	54.	1
2-Chloronaphthalene	ND		ug/kg	190	63.	1
1,2-Dichlorobenzene	ND		ug/kg	190	64.	1
1,3-Dichlorobenzene	ND		ug/kg	190	61.	1
1,4-Dichlorobenzene	ND		ug/kg	190	59.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	42.	1
2,6-Dinitrotoluene	ND		ug/kg	190	50.	1
Fluoranthene	970		ug/kg	120	36.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	59.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	45.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	68.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	59.	1
Hexachlorobutadiene	ND		ug/kg	190	55.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	120	1
Hexachloroethane	ND		ug/kg	160	35.	1
Isophorone	ND		ug/kg	170	52.	1
Naphthalene	ND		ug/kg	190	64.	1
Nitrobenzene	ND		ug/kg	170	46.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	160	41.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	58.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	51.	1
Butyl benzyl phthalate	ND		ug/kg	190	38.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	48.	1
Diethyl phthalate	ND		ug/kg	190	41.	1
Dimethyl phthalate	ND		ug/kg	190	49.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-09 Date Collected: 10/21/15 10:54

Client ID: SS-2A (6-8) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	470		ug/kg	120	38.	1
Benzo(a)pyrene	400		ug/kg	160	48.	1
Benzo(b)fluoranthene	500		ug/kg	120	39.	1
Benzo(k)fluoranthene	190		ug/kg	120	37.	1
Chrysene	480		ug/kg	120	38.	1
Acenaphthylene	44	J	ug/kg	160	36.	1
Anthracene	200		ug/kg	120	32.	1
Benzo(ghi)perylene	210		ug/kg	160	40.	1
Fluorene	67	J	ug/kg	190	56.	1
Phenanthrene	690		ug/kg	120	38.	1
Dibenzo(a,h)anthracene	61	J	ug/kg	120	38.	1
Indeno(1,2,3-cd)Pyrene	240		ug/kg	160	43.	1
Pyrene	810		ug/kg	120	38.	1
Biphenyl	ND		ug/kg	440	64.	1
4-Chloroaniline	ND		ug/kg	190	51.	1
2-Nitroaniline	ND		ug/kg	190	55.	1
3-Nitroaniline	ND		ug/kg	190	54.	1
4-Nitroaniline	ND		ug/kg	190	52.	1
Dibenzofuran	ND		ug/kg	190	65.	1
2-Methylnaphthalene	ND		ug/kg	230	62.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	60.	1
Acetophenone	ND		ug/kg	190	60.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
P-Chloro-M-Cresol	ND		ug/kg	190	56.	1
2-Chlorophenol	ND		ug/kg	190	59.	1
2,4-Dichlorophenol	ND		ug/kg	170	63.	1
2,4-Dimethylphenol	ND		ug/kg	190	58.	1
2-Nitrophenol	ND		ug/kg	420	61.	1
4-Nitrophenol	ND		ug/kg	270	63.	1
2,4-Dinitrophenol	ND		ug/kg	930	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	71.	1
Pentachlorophenol	ND		ug/kg	160	42.	1
Phenol	ND		ug/kg	190	58.	1
2-Methylphenol	ND		ug/kg	190	62.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	64.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	63.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	60.	1
Carbazole	80	J	ug/kg	190	42.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-09 Date Collected: 10/21/15 10:54

Client ID: SS-2A (6-8) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	101		30-120
2,4,6-Tribromophenol	127		10-136
4-Terphenyl-d14	101		18-120

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-10
Client ID: SS-5 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/27/15 15:46
Analyst: JB
Percent Solids: 91%

Date Collected: 10/21/15 12:55
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/23/15 18:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	96	J	ug/kg	140	36.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	58.	1
Hexachlorobenzene	ND		ug/kg	110	33.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	50.	1
2-Chloronaphthalene	ND		ug/kg	180	58.	1
1,2-Dichlorobenzene	ND		ug/kg	180	58.	1
1,3-Dichlorobenzene	ND		ug/kg	180	56.	1
1,4-Dichlorobenzene	ND		ug/kg	180	54.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	38.	1
2,6-Dinitrotoluene	ND		ug/kg	180	45.	1
Fluoranthene	810		ug/kg	110	33.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	54.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	41.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	62.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	54.	1
Hexachlorobutadiene	ND		ug/kg	180	50.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	110	1
Hexachloroethane	ND		ug/kg	140	32.	1
Isophorone	ND		ug/kg	160	47.	1
Naphthalene	59	J	ug/kg	180	59.	1
Nitrobenzene	ND		ug/kg	160	42.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	37.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	53.	1
Bis(2-Ethylhexyl)phthalate	120	J	ug/kg	180	46.	1
Butyl benzyl phthalate	ND		ug/kg	180	35.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	44.	1
Diethyl phthalate	ND		ug/kg	180	38.	1
Dimethyl phthalate	ND		ug/kg	180	45.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-10 Date Collected: 10/21/15 12:55

Client ID: SS-5 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	340		ug/kg	110	35.	1
Benzo(a)pyrene	270		ug/kg	140	43.	1
Benzo(b)fluoranthene	340		ug/kg	110	36.	1
Benzo(k)fluoranthene	130		ug/kg	110	34.	1
Chrysene	330		ug/kg	110	35.	1
Acenaphthylene	ND		ug/kg	140	33.	1
Anthracene	220		ug/kg	110	30.	1
Benzo(ghi)perylene	140		ug/kg	140	37.	1
Fluorene	89	J	ug/kg	180	51.	1
Phenanthrene	880		ug/kg	110	35.	1
Dibenzo(a,h)anthracene	42	J	ug/kg	110	34.	1
Indeno(1,2,3-cd)Pyrene	160		ug/kg	140	39.	1
Pyrene	680		ug/kg	110	34.	1
Biphenyl	ND		ug/kg	400	58.	1
4-Chloroaniline	ND		ug/kg	180	47.	1
2-Nitroaniline	ND		ug/kg	180	50.	1
3-Nitroaniline	ND		ug/kg	180	49.	1
4-Nitroaniline	ND		ug/kg	180	48.	1
Dibenzofuran	85	J	ug/kg	180	59.	1
2-Methylnaphthalene	ND		ug/kg	210	57.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	55.	1
Acetophenone	ND		ug/kg	180	55.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	33.	1
P-Chloro-M-Cresol	ND		ug/kg	180	51.	1
2-Chlorophenol	ND		ug/kg	180	54.	1
2,4-Dichlorophenol	ND		ug/kg	160	58.	1
2,4-Dimethylphenol	ND		ug/kg	180	53.	1
2-Nitrophenol	ND		ug/kg	380	55.	1
4-Nitrophenol	ND		ug/kg	250	58.	1
2,4-Dinitrophenol	ND		ug/kg	850	240	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	65.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	52.	1
2-Methylphenol	ND		ug/kg	180	57.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	58.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	58.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	100	J	ug/kg	180	38.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-10 Date Collected: 10/21/15 12:55

Client ID: SS-5 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	77		18-120

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-12
Client ID: SS-5 (4-6)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/27/15 16:11
Analyst: JB
Percent Solids: 92%

Date Collected: 10/21/15 13:00
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/23/15 18:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	190		ug/kg	140	36.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	58.	1
Hexachlorobenzene	ND		ug/kg	100	33.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	49.	1
2-Chloronaphthalene	ND		ug/kg	180	57.	1
1,2-Dichlorobenzene	ND		ug/kg	180	58.	1
1,3-Dichlorobenzene	ND		ug/kg	180	55.	1
1,4-Dichlorobenzene	ND		ug/kg	180	53.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	38.	1
2,6-Dinitrotoluene	ND		ug/kg	180	45.	1
Fluoranthene	1700		ug/kg	100	32.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	54.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	40.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	62.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	53.	1
Hexachlorobutadiene	ND		ug/kg	180	50.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	110	1
Hexachloroethane	ND		ug/kg	140	32.	1
Isophorone	ND		ug/kg	160	47.	1
Naphthalene	200		ug/kg	180	58.	1
Nitrobenzene	ND		ug/kg	160	42.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	37.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	52.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	46.	1
Butyl benzyl phthalate	ND		ug/kg	180	34.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	43.	1
Diethyl phthalate	ND		ug/kg	180	37.	1
Dimethyl phthalate	ND		ug/kg	180	45.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-12 Date Collected: 10/21/15 13:00

Client ID: SS-5 (4-6) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	750		ug/kg	100	34.	1
Benzo(a)pyrene	620		ug/kg	140	43.	1
Benzo(b)fluoranthene	740		ug/kg	100	36.	1
Benzo(k)fluoranthene	310		ug/kg	100	34.	1
Chrysene	760		ug/kg	100	34.	1
Acenaphthylene	96	J	ug/kg	140	33.	1
Anthracene	400		ug/kg	100	29.	1
Benzo(ghi)perylene	330		ug/kg	140	37.	1
Fluorene	190		ug/kg	180	50.	1
Phenanthrene	1800		ug/kg	100	34.	1
Dibenzo(a,h)anthracene	100		ug/kg	100	34.	1
Indeno(1,2,3-cd)Pyrene	370		ug/kg	140	39.	1
Pyrene	1400		ug/kg	100	34.	1
Biphenyl	ND		ug/kg	400	58.	1
4-Chloroaniline	ND		ug/kg	180	46.	1
2-Nitroaniline	ND		ug/kg	180	50.	1
3-Nitroaniline	ND		ug/kg	180	48.	1
4-Nitroaniline	ND		ug/kg	180	48.	1
Dibenzofuran	180		ug/kg	180	59.	1
2-Methylnaphthalene	100	J	ug/kg	210	56.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	54.	1
Acetophenone	ND		ug/kg	180	54.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
P-Chloro-M-Cresol	ND		ug/kg	180	51.	1
2-Chlorophenol	ND		ug/kg	180	53.	1
2,4-Dichlorophenol	ND		ug/kg	160	57.	1
2,4-Dimethylphenol	ND		ug/kg	180	52.	1
2-Nitrophenol	ND		ug/kg	380	55.	1
4-Nitrophenol	ND		ug/kg	250	57.	1
2,4-Dinitrophenol	ND		ug/kg	840	240	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	64.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	52.	1
2-Methylphenol	ND		ug/kg	180	57.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	58.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	57.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	200		ug/kg	180	38.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-12 Date Collected: 10/21/15 13:00

Client ID: SS-5 (4-6) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		25-120
Phenol-d6	54		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	73		18-120

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-13
Client ID: SS-6 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/27/15 16:37
Analyst: JB
Percent Solids: 89%

Date Collected: 10/21/15 14:00
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/23/15 18:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1200		ug/kg	140	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	60.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	51.	1
2-Chloronaphthalene	ND		ug/kg	180	59.	1
1,2-Dichlorobenzene	ND		ug/kg	180	60.	1
1,3-Dichlorobenzene	ND		ug/kg	180	57.	1
1,4-Dichlorobenzene	ND		ug/kg	180	55.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	39.	1
2,6-Dinitrotoluene	ND		ug/kg	180	47.	1
Fluoranthene	9300	E	ug/kg	110	33.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	55.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	64.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	55.	1
Hexachlorobutadiene	ND		ug/kg	180	51.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	120	1
Hexachloroethane	ND		ug/kg	140	33.	1
Isophorone	ND		ug/kg	160	48.	1
Naphthalene	610		ug/kg	180	60.	1
Nitrobenzene	ND		ug/kg	160	43.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	38.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	54.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	48.	1
Butyl benzyl phthalate	ND		ug/kg	180	36.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	45.	1
Diethyl phthalate	ND		ug/kg	180	38.	1
Dimethyl phthalate	ND		ug/kg	180	46.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-13 Date Collected: 10/21/15 14:00

Client ID: SS-6 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	4700		ug/kg	110	36.	1
Benzo(a)pyrene	3900		ug/kg	140	44.	1
Benzo(b)fluoranthene	4900		ug/kg	110	37.	1
Benzo(k)fluoranthene	1800		ug/kg	110	35.	1
Chrysene	5000		ug/kg	110	36.	1
Acenaphthylene	290		ug/kg	140	34.	1
Anthracene	2300		ug/kg	110	30.	1
Benzo(ghi)perylene	2200		ug/kg	140	38.	1
Fluorene	1100		ug/kg	180	52.	1
Phenanthrene	9000	E	ug/kg	110	36.	1
Dibenzo(a,h)anthracene	690		ug/kg	110	35.	1
Indeno(1,2,3-cd)Pyrene	2400		ug/kg	140	40.	1
Pyrene	8200	E	ug/kg	110	35.	1
Biphenyl	110	J	ug/kg	420	60.	1
4-Chloroaniline	ND		ug/kg	180	48.	1
2-Nitroaniline	ND		ug/kg	180	51.	1
3-Nitroaniline	ND		ug/kg	180	50.	1
4-Nitroaniline	ND		ug/kg	180	49.	1
Dibenzofuran	840		ug/kg	180	61.	1
2-Methylnaphthalene	380		ug/kg	220	58.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	56.	1
Acetophenone	ND		ug/kg	180	56.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
P-Chloro-M-Cresol	ND		ug/kg	180	53.	1
2-Chlorophenol	ND		ug/kg	180	55.	1
2,4-Dichlorophenol	ND		ug/kg	160	59.	1
2,4-Dimethylphenol	ND		ug/kg	180	54.	1
2-Nitrophenol	ND		ug/kg	390	57.	1
4-Nitrophenol	ND		ug/kg	250	59.	1
2,4-Dinitrophenol	ND		ug/kg	870	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	67.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	59.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	60.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	59.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	1100		ug/kg	180	39.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-13 Date Collected: 10/21/15 14:00

Client ID: SS-6 (0-2) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		25-120
Phenol-d6	50		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	44		10-136
4-Terphenyl-d14	67		18-120

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-13 D
Client ID: SS-6 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/28/15 12:34
Analyst: JB
Percent Solids: 89%

Date Collected: 10/21/15 14:00
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/23/15 18:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	12000		ug/kg	550	170	5
Phenanthrene	12000		ug/kg	550	180	5
Pyrene	10000		ug/kg	550	180	5

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-15
Client ID: SS-6 (4-5)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/27/15 17:02
Analyst: JB
Percent Solids: 93%

Date Collected: 10/21/15 14:05
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/23/15 18:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	42	J	ug/kg	140	36.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	57.	1
Hexachlorobenzene	ND		ug/kg	100	32.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	49.	1
2-Chloronaphthalene	ND		ug/kg	170	57.	1
1,2-Dichlorobenzene	ND		ug/kg	170	57.	1
1,3-Dichlorobenzene	ND		ug/kg	170	55.	1
1,4-Dichlorobenzene	ND		ug/kg	170	53.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	38.	1
2,6-Dinitrotoluene	ND		ug/kg	170	45.	1
Fluoranthene	460		ug/kg	100	32.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	53.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	40.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	61.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	53.	1
Hexachlorobutadiene	ND		ug/kg	170	49.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	110	1
Hexachloroethane	ND		ug/kg	140	32.	1
Isophorone	ND		ug/kg	160	46.	1
Naphthalene	ND		ug/kg	170	58.	1
Nitrobenzene	ND		ug/kg	160	41.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	36.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	52.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	170	46.	1
Butyl benzyl phthalate	ND		ug/kg	170	34.	1
Di-n-butylphthalate	ND		ug/kg	170	34.	1
Di-n-octylphthalate	ND		ug/kg	170	43.	1
Diethyl phthalate	ND		ug/kg	170	37.	1
Dimethyl phthalate	ND		ug/kg	170	44.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-15 Date Collected: 10/21/15 14:05

Client ID: SS-6 (4-5) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	210		ug/kg	100	34.	1
Benzo(a)pyrene	170		ug/kg	140	43.	1
Benzo(b)fluoranthene	210		ug/kg	100	35.	1
Benzo(k)fluoranthene	81	J	ug/kg	100	33.	1
Chrysene	210		ug/kg	100	34.	1
Acenaphthylene	ND		ug/kg	140	32.	1
Anthracene	97	J	ug/kg	100	29.	1
Benzo(ghi)perylene	94	J	ug/kg	140	36.	1
Fluorene	ND		ug/kg	170	50.	1
Phenanthrene	420		ug/kg	100	34.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	34.	1
Indeno(1,2,3-cd)Pyrene	100	J	ug/kg	140	39.	1
Pyrene	410		ug/kg	100	34.	1
Biphenyl	ND		ug/kg	400	57.	1
4-Chloroaniline	ND		ug/kg	170	46.	1
2-Nitroaniline	ND		ug/kg	170	49.	1
3-Nitroaniline	ND		ug/kg	170	48.	1
4-Nitroaniline	ND		ug/kg	170	47.	1
Dibenzofuran	ND		ug/kg	170	58.	1
2-Methylnaphthalene	ND		ug/kg	210	56.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	54.	1
Acetophenone	ND		ug/kg	170	54.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
P-Chloro-M-Cresol	ND		ug/kg	170	50.	1
2-Chlorophenol	ND		ug/kg	170	53.	1
2,4-Dichlorophenol	ND		ug/kg	160	56.	1
2,4-Dimethylphenol	ND		ug/kg	170	52.	1
2-Nitrophenol	ND		ug/kg	380	54.	1
4-Nitrophenol	ND		ug/kg	240	56.	1
2,4-Dinitrophenol	ND		ug/kg	840	240	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	64.	1
Pentachlorophenol	ND		ug/kg	140	37.	1
Phenol	ND		ug/kg	170	52.	1
2-Methylphenol	ND		ug/kg	170	56.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	57.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	56.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	54.	1
Carbazole	38	J	ug/kg	170	37.	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-15 Date Collected: 10/21/15 14:05

Client ID: SS-6 (4-5) Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	107		10-136
4-Terphenyl-d14	89		18-120

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-16
Client ID: FIELD BLANK
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/25/15 21:09
Analyst: PS

Date Collected: 10/21/15 11:05
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/22/15 18:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.28	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Hexachlorobenzene	ND		ug/l	2.0	0.40	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
2-Chloronaphthalene	ND		ug/l	2.0	0.46	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
Fluoranthene	ND		ug/l	2.0	0.40	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorobutadiene	ND		ug/l	2.0	0.42	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Hexachloroethane	ND		ug/l	2.0	0.30	1
Isophorone	ND		ug/l	5.0	0.79	1
Naphthalene	ND		ug/l	2.0	0.33	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-16 Date Collected: 10/21/15 11:05

Client ID: FIELD BLANK Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Benzo(a)pyrene	ND		ug/l	2.0	0.66	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.37	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.30	1
Chrysene	ND		ug/l	2.0	0.30	1
Acenaphthylene	ND		ug/l	2.0	0.37	1
Anthracene	ND		ug/l	2.0	0.20	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.57	1
Fluorene	ND		ug/l	2.0	0.32	1
Phenanthrene	ND		ug/l	2.0	0.23	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.44	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	2.0	0.43	1
Pyrene	ND		ug/l	2.0	0.52	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
2-Methylnaphthalene	ND		ug/l	2.0	0.36	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1
Acetophenone	ND		ug/l	5.0	0.43	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54	1
2-Chlorophenol	ND		ug/l	2.0	0.58	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.56	1
2,4-Dimethylphenol	ND		ug/l	5.0	0.58	1
2-Nitrophenol	ND		ug/l	10	1.0	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4	1
Pentachlorophenol	ND		ug/l	10	3.2	1
Phenol	ND		ug/l	5.0	0.27	1
2-Methylphenol	ND		ug/l	5.0	0.70	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-16 Date Collected: 10/21/15 11:05

Client ID: FIELD BLANK Date Received: 10/21/15

Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	84		41-149

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/25/15 17:21
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/22/15 18:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 16 Batch: WG833348-1					
Acenaphthene	ND		ug/l	2.0	0.28
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21
Hexachlorobenzene	ND		ug/l	2.0	0.40
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41
2-Chloronaphthalene	ND		ug/l	2.0	0.46
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89
Fluoranthene	ND		ug/l	2.0	0.40
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60
Hexachlorobutadiene	ND		ug/l	2.0	0.42
Hexachlorocyclopentadiene	ND		ug/l	20	0.58
Hexachloroethane	ND		ug/l	2.0	0.30
Isophorone	ND		ug/l	5.0	0.79
Naphthalene	ND		ug/l	2.0	0.33
Nitrobenzene	ND		ug/l	2.0	0.40
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93
Butyl benzyl phthalate	ND		ug/l	5.0	1.1
Di-n-butylphthalate	ND		ug/l	5.0	0.77
Di-n-octylphthalate	ND		ug/l	5.0	1.2
Diethyl phthalate	ND		ug/l	5.0	0.39

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/25/15 17:21
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/22/15 18:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 16 Batch: WG833348-1					
Dimethyl phthalate	ND		ug/l	5.0	0.33
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.66
Benzo(b)fluoranthene	ND		ug/l	2.0	0.37
Benzo(k)fluoranthene	ND		ug/l	2.0	0.30
Chrysene	ND		ug/l	2.0	0.30
Acenaphthylene	ND		ug/l	2.0	0.37
Anthracene	ND		ug/l	2.0	0.20
Benzo(ghi)perylene	ND		ug/l	2.0	0.57
Fluorene	ND		ug/l	2.0	0.32
Phenanthrene	ND		ug/l	2.0	0.23
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.44
Indeno(1,2,3-cd)Pyrene	ND		ug/l	2.0	0.43
Pyrene	ND		ug/l	2.0	0.52
Biphenyl	ND		ug/l	2.0	0.24
4-Chloroaniline	ND		ug/l	5.0	0.84
2-Nitroaniline	ND		ug/l	5.0	0.96
3-Nitroaniline	ND		ug/l	5.0	0.67
4-Nitroaniline	ND		ug/l	5.0	0.83
Dibenzofuran	ND		ug/l	2.0	0.22
2-Methylnaphthalene	ND		ug/l	2.0	0.36
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36
Acetophenone	ND		ug/l	5.0	0.43
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54
2-Chlorophenol	ND		ug/l	2.0	0.58
2,4-Dichlorophenol	ND		ug/l	5.0	0.56
2,4-Dimethylphenol	ND		ug/l	5.0	0.58
2-Nitrophenol	ND		ug/l	10	1.0

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/25/15 17:21
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/22/15 18:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 16 Batch: WG833348-1					
4-Nitrophenol	ND		ug/l	10	1.1
2,4-Dinitrophenol	ND		ug/l	20	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4
Pentachlorophenol	ND		ug/l	10	3.2
Phenol	ND		ug/l	5.0	0.27
2-Methylphenol	ND		ug/l	5.0	0.70
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75
Benzoic Acid	ND		ug/l	50	1.0
Benzyl Alcohol	ND		ug/l	2.0	0.68
Carbazole	ND		ug/l	2.0	0.37

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	86		41-149

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/27/15 09:16
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 10/23/15 18:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,09-10,12-13,15 Batch: WG833773-1					
Acenaphthene	ND		ug/kg	130	34.
Benzidine	ND		ug/kg	540	130
n-Nitrosodimethylamine	ND		ug/kg	330	53.
1,2,4-Trichlorobenzene	ND		ug/kg	160	53.
Hexachlorobenzene	ND		ug/kg	98	30.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	53.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	51.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	98	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	37.
Azobenzene	ND		ug/kg	160	44.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	470	100
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	48.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/27/15 09:16
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 10/23/15 18:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,09-10,12-13,15 Batch: WG833773-1					
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	98	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	33.
Benzo(k)fluoranthene	ND		ug/kg	98	31.
Chrysene	ND		ug/kg	98	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	98	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	98	32.
Dibenzo(a,h)anthracene	ND		ug/kg	98	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	98	32.
Biphenyl	ND		ug/kg	370	54.
Aniline	ND		ug/kg	200	33.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	54.
2-Methylnaphthalene	ND		ug/kg	200	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
P-Chloro-M-Cresol	ND		ug/kg	160	47.

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/27/15 09:16
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 10/23/15 18:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,09-10,12-13,15 Batch: WG833773-1					
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	150	53.
2,4-Dimethylphenol	ND		ug/kg	160	48.
2-Nitrophenol	ND		ug/kg	350	51.
4-Nitrophenol	ND		ug/kg	230	53.
2,4-Dinitrophenol	ND		ug/kg	780	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	60.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	52.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	53.
2,4,5-Trichlorophenol	ND		ug/kg	160	53.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.
Benzaldehyde	ND		ug/kg	220	66.
Caprolactam	ND		ug/kg	160	45.
Atrazine	ND		ug/kg	130	37.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	28.
Pyridine	ND		ug/kg	650	58.
Parathion, ethyl	ND		ug/kg	160	64.
1-Methylnaphthalene	ND		ug/kg	160	48.

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/27/15 09:16
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 10/23/15 18:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,09-10,12-13,15 Batch: WG833773-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	83		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 16 Batch: WG833348-2 WG833348-3								
Acenaphthene	70		73		37-111	4		30
1,2,4-Trichlorobenzene	61		67		39-98	9		30
Hexachlorobenzene	74		76		40-140	3		30
Bis(2-chloroethyl)ether	65		69		40-140	6		30
2-Chloronaphthalene	68		72		40-140	6		30
1,2-Dichlorobenzene	56		62		40-140	10		30
1,3-Dichlorobenzene	52		60		40-140	14		30
1,4-Dichlorobenzene	54		61		36-97	12		30
3,3'-Dichlorobenzidine	61		62		40-140	2		30
2,4-Dinitrotoluene	76		78		24-96	3		30
2,6-Dinitrotoluene	76		77		40-140	1		30
Fluoranthene	75		77		40-140	3		30
4-Chlorophenyl phenyl ether	72		74		40-140	3		30
4-Bromophenyl phenyl ether	76		78		40-140	3		30
Bis(2-chloroisopropyl)ether	63		69		40-140	9		30
Bis(2-chloroethoxy)methane	70		72		40-140	3		30
Hexachlorobutadiene	60		67		40-140	11		30
Hexachlorocyclopentadiene	63		68		40-140	8		30
Hexachloroethane	52		58		40-140	11		30
Isophorone	68		71		40-140	4		30
Naphthalene	64		69		40-140	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 16 Batch: WG833348-2 WG833348-3								
Nitrobenzene	64		72		40-140	12		30
NitrosoDiPhenylAmine(NDPA)/DPA	71		72		40-140	1		30
n-Nitrosodi-n-propylamine	66		69		29-132	4		30
Bis(2-Ethylhexyl)phthalate	78		80		40-140	3		30
Butyl benzyl phthalate	77		79		40-140	3		30
Di-n-butylphthalate	79		80		40-140	1		30
Di-n-octylphthalate	79		80		40-140	1		30
Diethyl phthalate	74		75		40-140	1		30
Dimethyl phthalate	74		76		40-140	3		30
Benzo(a)anthracene	74		75		40-140	1		30
Benzo(a)pyrene	70		74		40-140	6		30
Benzo(b)fluoranthene	75		75		40-140	0		30
Benzo(k)fluoranthene	71		77		40-140	8		30
Chrysene	73		75		40-140	3		30
Acenaphthylene	69		72		45-123	4		30
Anthracene	78		80		40-140	3		30
Benzo(ghi)perylene	70		73		40-140	4		30
Fluorene	71		73		40-140	3		30
Phenanthrene	74		77		40-140	4		30
Dibenzo(a,h)anthracene	72		75		40-140	4		30
Indeno(1,2,3-cd)Pyrene	70		71		40-140	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 16 Batch: WG833348-2 WG833348-3								
Pyrene	74		77		26-127	4		30
Biphenyl	77		80		54-104	4		30
4-Chloroaniline	63		67		40-140	6		30
2-Nitroaniline	75		78		52-143	4		30
3-Nitroaniline	59		57		25-145	3		30
4-Nitroaniline	68		69		51-143	1		30
Dibenzofuran	71		74		40-140	4		30
2-Methylnaphthalene	67		71		40-140	6		30
1,2,4,5-Tetrachlorobenzene	75		80		2-134	6		30
Acetophenone	73		78		39-129	7		30
2,4,6-Trichlorophenol	73		76		30-130	4		30
P-Chloro-M-Cresol	75		77		23-97	3		30
2-Chlorophenol	62		66		27-123	6		30
2,4-Dichlorophenol	69		76		30-130	10		30
2,4-Dimethylphenol	58		58		30-130	0		30
2-Nitrophenol	65		70		30-130	7		30
4-Nitrophenol	48		51		10-80	6		30
2,4-Dinitrophenol	55		57		20-130	4		30
4,6-Dinitro-o-cresol	69		70		20-164	1		30
Pentachlorophenol	72		73		9-103	1		30
Phenol	33		35		12-110	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 16 Batch: WG833348-2 WG833348-3								
2-Methylphenol	60		64		30-130	6		30
3-Methylphenol/4-Methylphenol	56		60		30-130	7		30
2,4,5-Trichlorophenol	75		78		30-130	4		30
Benzoic Acid	15		13		10-110	14		30
Benzyl Alcohol	63		65		15-110	3		30
Carbazole	78		79		55-144	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	44		49		21-120
Phenol-d6	32		35		10-120
Nitrobenzene-d5	67		72		23-120
2-Fluorobiphenyl	73		77		15-120
2,4,6-Tribromophenol	83		84		10-120
4-Terphenyl-d14	79		82		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,09-10,12-13,15 Batch: WG833773-2 WG833773-3								
Acenaphthene	76		75		31-137	1		50
Benzidine	35		32		10-66	9		50
n-Nitrosodimethylamine	58		59		22-100	2		50
1,2,4-Trichlorobenzene	79		79		38-107	0		50
Hexachlorobenzene	92		91		40-140	1		50
Bis(2-chloroethyl)ether	63		63		40-140	0		50
2-Chloronaphthalene	82		82		40-140	0		50
1,2-Dichlorobenzene	70		72		40-140	3		50
1,3-Dichlorobenzene	70		71		40-140	1		50
1,4-Dichlorobenzene	70		71		28-104	1		50
3,3'-Dichlorobenzidine	61		59		40-140	3		50
2,4-Dinitrotoluene	**98**	Q	**96**	Q	28-89	2		50
2,6-Dinitrotoluene	99		97		40-140	2		50
Fluoranthene	81		81		40-140	0		50
4-Chlorophenyl phenyl ether	84		84		40-140	0		50
4-Bromophenyl phenyl ether	92		92		40-140	0		50
Azobenzene	67		67		40-140	0		50
Bis(2-chloroisopropyl)ether	54		54		40-140	0		50
Bis(2-chloroethoxy)methane	67		68		40-117	1		50
Hexachlorobutadiene	85		85		40-140	0		50
Hexachlorocyclopentadiene	107		108		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,09-10,12-13,15 Batch: WG833773-2 WG833773-3								
Hexachloroethane	68		70		40-140	3		50
Isophorone	68		68		40-140	0		50
Naphthalene	74		74		40-140	0		50
Nitrobenzene	71		73		40-140	3		50
NitrosoDiPhenylAmine(NDPA)/DPA	82		81		36-157	1		50
n-Nitrosodi-n-propylamine	68		68		32-121	0		50
Bis(2-Ethylhexyl)phthalate	76		75		40-140	1		50
Butyl benzyl phthalate	79		79		40-140	0		50
Di-n-butylphthalate	77		78		40-140	1		50
Di-n-octylphthalate	80		80		40-140	0		50
Diethyl phthalate	80		80		40-140	0		50
Dimethyl phthalate	80		81		40-140	1		50
Benzo(a)anthracene	79		78		40-140	1		50
Benzo(a)pyrene	78		77		40-140	1		50
Benzo(b)fluoranthene	78		77		40-140	1		50
Benzo(k)fluoranthene	77		75		40-140	3		50
Chrysene	77		77		40-140	0		50
Acenaphthylene	84		83		40-140	1		50
Anthracene	81		83		40-140	2		50
Benzo(ghi)perylene	79		79		40-140	0		50
Fluorene	81		80		40-140	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,09-10,12-13,15 Batch: WG833773-2 WG833773-3								
Phenanthrene	76		78		40-140	3		50
Dibenzo(a,h)anthracene	79		79		40-140	0		50
Indeno(1,2,3-cd)Pyrene	81		80		40-140	1		50
Pyrene	81		80		35-142	1		50
Biphenyl	84		83		54-104	1		50
Aniline	45		43		40-140	5		50
4-Chloroaniline	63		62		40-140	2		50
2-Nitroaniline	96		95		47-134	1		50
3-Nitroaniline	66		65		26-129	2		50
4-Nitroaniline	82		81		41-125	1		50
Dibenzofuran	79		79		40-140	0		50
2-Methylnaphthalene	78		79		40-140	1		50
1,2,4,5-Tetrachlorobenzene	87		88		40-117	1		50
Acetophenone	80		78		14-144	3		50
2,4,6-Trichlorophenol	99		98		30-130	1		50
P-Chloro-M-Cresol	83		82		26-103	1		50
2-Chlorophenol	74		72		25-102	3		50
2,4-Dichlorophenol	86		85		30-130	1		50
2,4-Dimethylphenol	83		84		30-130	1		50
2-Nitrophenol	88		87		30-130	1		50
4-Nitrophenol	88		87		11-114	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,09-10,12-13,15 Batch: WG833773-2 WG833773-3								
2,4-Dinitrophenol	84		78		4-130	7		50
4,6-Dinitro-o-cresol	94		97		10-130	3		50
Pentachlorophenol	78		78		17-109	0		50
Phenol	68		66		26-90	3		50
2-Methylphenol	74		74		30-130.	0		50
3-Methylphenol/4-Methylphenol	74		73		30-130	1		50
2,4,5-Trichlorophenol	94		93		30-130	1		50
Benzoic Acid	36		30		10-66	18		50
Benzyl Alcohol	75		74		40-140	1		50
Carbazole	77		77		54-128	0		50
Benzaldehyde	68		67		40-140	1		50
Caprolactam	80		78		15-130	3		50
Atrazine	92		92		40-140	0		50
2,3,4,6-Tetrachlorophenol	93		90		40-140	3		50
Pyridine	46		47		10-93	2		50
Parathion, ethyl	107		104		40-140	3		50
1-Methylnaphthalene	78		80		26-130	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,09-10,12-13,15 Batch: WG833773-2 WG833773-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	73		71		25-120
Phenol-d6	74		70		10-120
Nitrobenzene-d5	76		73		23-120
2-Fluorobiphenyl	86		84		30-120
2,4,6-Tribromophenol	102		100		10-136
4-Terphenyl-d14	85		84		18-120

PCBS

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-01	Date Collected:	10/21/15 09:30
Client ID:	SS-8 (0-2)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	10/23/15 23:06
Analytical Date:	10/25/15 00:20	Cleanup Method:	EPA 3665A
Analyst:	KE	Cleanup Date:	10/24/15
Percent Solids:	90%	Cleanup Method:	EPA 3660B
		Cleanup Date:	10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.3	2.79	1	A
Aroclor 1221	ND		ug/kg	35.3	3.25	1	A
Aroclor 1232	ND		ug/kg	35.3	4.14	1	A
Aroclor 1242	ND		ug/kg	35.3	4.32	1	A
Aroclor 1248	ND		ug/kg	35.3	2.98	1	A
Aroclor 1254	ND		ug/kg	35.3	2.90	1	A
Aroclor 1260	ND		ug/kg	35.3	2.69	1	A
Aroclor 1262	ND		ug/kg	35.3	1.75	1	A
Aroclor 1268	ND		ug/kg	35.3	5.12	1	A
PCBs, Total	ND		ug/kg	35.3	1.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	99		30-150	B

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-02	Date Collected:	10/21/15 09:40
Client ID:	SS-8 (11-13)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	10/23/15 23:07
Analytical Date:	10/25/15 00:32	Cleanup Method:	EPA 3665A
Analyst:	KE	Cleanup Date:	10/24/15
Percent Solids:	93%	Cleanup Method:	EPA 3660B
		Cleanup Date:	10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.8	2.67	1	A
Aroclor 1221	ND		ug/kg	33.8	3.12	1	A
Aroclor 1232	ND		ug/kg	33.8	3.97	1	A
Aroclor 1242	ND		ug/kg	33.8	4.14	1	A
Aroclor 1248	ND		ug/kg	33.8	2.86	1	A
Aroclor 1254	ND		ug/kg	33.8	2.78	1	A
Aroclor 1260	ND		ug/kg	33.8	2.58	1	A
Aroclor 1262	ND		ug/kg	33.8	1.68	1	A
Aroclor 1268	ND		ug/kg	33.8	4.91	1	A
PCBs, Total	ND		ug/kg	33.8	1.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-03	Date Collected:	10/21/15 09:55
Client ID:	SS-7 (0-2)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	10/23/15 23:07
Analytical Date:	10/25/15 00:45	Cleanup Method:	EPA 3665A
Analyst:	KE	Cleanup Date:	10/24/15
Percent Solids:	89%	Cleanup Method:	EPA 3660B
		Cleanup Date:	10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.6	2.81	1	A
Aroclor 1221	ND		ug/kg	35.6	3.28	1	A
Aroclor 1232	ND		ug/kg	35.6	4.17	1	A
Aroclor 1242	ND		ug/kg	35.6	4.36	1	A
Aroclor 1248	ND		ug/kg	35.6	3.00	1	A
Aroclor 1254	ND		ug/kg	35.6	2.93	1	A
Aroclor 1260	ND		ug/kg	35.6	2.71	1	A
Aroclor 1262	ND		ug/kg	35.6	1.77	1	A
Aroclor 1268	ND		ug/kg	35.6	5.16	1	A
PCBs, Total	ND		ug/kg	35.6	1.77	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-04	Date Collected:	10/21/15 10:00
Client ID:	SS-7 (9-11)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	10/23/15 23:07
Analytical Date:	10/25/15 00:57	Cleanup Method:	EPA 3665A
Analyst:	KE	Cleanup Date:	10/24/15
Percent Solids:	86%	Cleanup Method:	EPA 3660B
		Cleanup Date:	10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.2	2.94	1	A
Aroclor 1221	ND		ug/kg	37.2	3.43	1	A
Aroclor 1232	ND		ug/kg	37.2	4.36	1	A
Aroclor 1242	ND		ug/kg	37.2	4.55	1	A
Aroclor 1248	ND		ug/kg	37.2	3.14	1	A
Aroclor 1254	ND		ug/kg	37.2	3.06	1	A
Aroclor 1260	ND		ug/kg	37.2	2.83	1	A
Aroclor 1262	ND		ug/kg	37.2	1.84	1	A
Aroclor 1268	ND		ug/kg	37.2	5.39	1	A
PCBs, Total	ND		ug/kg	37.2	1.84	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-05	Date Collected:	10/21/15 10:23
Client ID:	SS-3A (6-8)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	10/23/15 23:07
Analytical Date:	10/25/15 01:09	Cleanup Method:	EPA 3665A
Analyst:	KE	Cleanup Date:	10/24/15
Percent Solids:	83%	Cleanup Method:	EPA 3660B
		Cleanup Date:	10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.9	3.07	1	A
Aroclor 1221	ND		ug/kg	38.9	3.58	1	A
Aroclor 1232	ND		ug/kg	38.9	4.56	1	A
Aroclor 1242	ND		ug/kg	38.9	4.76	1	A
Aroclor 1248	ND		ug/kg	38.9	3.28	1	A
Aroclor 1254	ND		ug/kg	38.9	3.20	1	A
Aroclor 1260	ND		ug/kg	38.9	2.96	1	A
Aroclor 1262	ND		ug/kg	38.9	1.93	1	A
Aroclor 1268	ND		ug/kg	38.9	5.64	1	A
PCBs, Total	ND		ug/kg	38.9	1.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	39		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	36		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-06	Date Collected:	10/21/15 10:30
Client ID:	SS-4 (0-2)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	10/23/15 23:07
Analytical Date:	10/25/15 01:22	Cleanup Method:	EPA 3665A
Analyst:	KE	Cleanup Date:	10/24/15
Percent Solids:	84%	Cleanup Method:	EPA 3660B
		Cleanup Date:	10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	3.00	1	A
Aroclor 1221	ND		ug/kg	38.0	3.50	1	A
Aroclor 1232	ND		ug/kg	38.0	4.45	1	A
Aroclor 1242	ND		ug/kg	38.0	4.65	1	A
Aroclor 1248	ND		ug/kg	38.0	3.21	1	A
Aroclor 1254	ND		ug/kg	38.0	3.12	1	A
Aroclor 1260	29.1	J	ug/kg	38.0	2.90	1	B
Aroclor 1262	ND		ug/kg	38.0	1.88	1	A
Aroclor 1268	ND		ug/kg	38.0	5.51	1	A
PCBs, Total	29.1	J	ug/kg	38.0	1.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	115		30-150	B

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-07	Date Collected:	10/21/15 10:40
Client ID:	SS-4 (6-8)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	10/23/15 23:07
Analytical Date:	10/25/15 01:34	Cleanup Method:	EPA 3665A
Analyst:	KE	Cleanup Date:	10/24/15
Percent Solids:	89%	Cleanup Method:	EPA 3660B
		Cleanup Date:	10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.1	2.93	1	A
Aroclor 1221	ND		ug/kg	37.1	3.42	1	A
Aroclor 1232	ND		ug/kg	37.1	4.35	1	A
Aroclor 1242	ND		ug/kg	37.1	4.54	1	A
Aroclor 1248	ND		ug/kg	37.1	3.13	1	A
Aroclor 1254	ND		ug/kg	37.1	3.05	1	A
Aroclor 1260	ND		ug/kg	37.1	2.83	1	A
Aroclor 1262	ND		ug/kg	37.1	1.84	1	A
Aroclor 1268	ND		ug/kg	37.1	5.38	1	A
PCBs, Total	ND		ug/kg	37.1	1.84	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	109		30-150	B

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-09	Date Collected:	10/21/15 10:54
Client ID:	SS-2A (6-8)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	10/23/15 23:07
Analytical Date:	10/25/15 01:47	Cleanup Method:	EPA 3665A
Analyst:	KE	Cleanup Date:	10/24/15
Percent Solids:	83%	Cleanup Method:	EPA 3660B
		Cleanup Date:	10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	3.00	1	A
Aroclor 1221	ND		ug/kg	38.0	3.50	1	A
Aroclor 1232	ND		ug/kg	38.0	4.45	1	A
Aroclor 1242	ND		ug/kg	38.0	4.65	1	A
Aroclor 1248	ND		ug/kg	38.0	3.21	1	A
Aroclor 1254	ND		ug/kg	38.0	3.12	1	A
Aroclor 1260	ND		ug/kg	38.0	2.90	1	A
Aroclor 1262	ND		ug/kg	38.0	1.88	1	A
Aroclor 1268	ND		ug/kg	38.0	5.51	1	A
PCBs, Total	ND		ug/kg	38.0	1.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-10	Date Collected:	10/21/15 12:55
Client ID:	SS-5 (0-2)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	10/23/15 23:07
Analytical Date:	10/25/15 01:59	Cleanup Method:	EPA 3665A
Analyst:	KE	Cleanup Date:	10/24/15
Percent Solids:	91%	Cleanup Method:	EPA 3660B
		Cleanup Date:	10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.1	2.85	1	A
Aroclor 1221	ND		ug/kg	36.1	3.33	1	A
Aroclor 1232	ND		ug/kg	36.1	4.23	1	A
Aroclor 1242	ND		ug/kg	36.1	4.42	1	A
Aroclor 1248	ND		ug/kg	36.1	3.05	1	A
Aroclor 1254	ND		ug/kg	36.1	2.97	1	A
Aroclor 1260	ND		ug/kg	36.1	2.75	1	A
Aroclor 1262	ND		ug/kg	36.1	1.79	1	A
Aroclor 1268	ND		ug/kg	36.1	5.24	1	A
PCBs, Total	ND		ug/kg	36.1	1.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-12	Date Collected:	10/21/15 13:00
Client ID:	SS-5 (4-6)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	10/23/15 23:07
Analytical Date:	10/25/15 02:11	Cleanup Method:	EPA 3665A
Analyst:	KE	Cleanup Date:	10/24/15
Percent Solids:	92%	Cleanup Method:	EPA 3660B
		Cleanup Date:	10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.9	2.68	1	A
Aroclor 1221	ND		ug/kg	33.9	3.13	1	A
Aroclor 1232	ND		ug/kg	33.9	3.98	1	A
Aroclor 1242	ND		ug/kg	33.9	4.16	1	A
Aroclor 1248	ND		ug/kg	33.9	2.86	1	A
Aroclor 1254	ND		ug/kg	33.9	2.79	1	A
Aroclor 1260	ND		ug/kg	33.9	2.59	1	A
Aroclor 1262	ND		ug/kg	33.9	1.68	1	A
Aroclor 1268	ND		ug/kg	33.9	4.92	1	A
PCBs, Total	ND		ug/kg	33.9	1.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-13	Date Collected:	10/21/15 14:00
Client ID:	SS-6 (0-2)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	10/23/15 23:07
Analytical Date:	10/25/15 02:24	Cleanup Method:	EPA 3665A
Analyst:	KE	Cleanup Date:	10/24/15
Percent Solids:	89%	Cleanup Method:	EPA 3660B
		Cleanup Date:	10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.7	2.90	1	A
Aroclor 1221	ND		ug/kg	36.7	3.39	1	A
Aroclor 1232	ND		ug/kg	36.7	4.30	1	A
Aroclor 1242	ND		ug/kg	36.7	4.50	1	A
Aroclor 1248	ND		ug/kg	36.7	3.10	1	A
Aroclor 1254	ND		ug/kg	36.7	3.02	1	A
Aroclor 1260	ND		ug/kg	36.7	2.80	1	A
Aroclor 1262	ND		ug/kg	36.7	1.82	1	A
Aroclor 1268	ND		ug/kg	36.7	5.33	1	A
PCBs, Total	ND		ug/kg	36.7	1.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	115		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	**161**	Q	30-150	B

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-15	Date Collected:	10/21/15 14:05
Client ID:	SS-6 (4-5)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	10/23/15 23:07
Analytical Date:	10/25/15 02:36	Cleanup Method:	EPA 3665A
Analyst:	KE	Cleanup Date:	10/24/15
Percent Solids:	93%	Cleanup Method:	EPA 3660B
		Cleanup Date:	10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.2	2.78	1	A
Aroclor 1221	ND		ug/kg	35.2	3.24	1	A
Aroclor 1232	ND		ug/kg	35.2	4.12	1	A
Aroclor 1242	ND		ug/kg	35.2	4.31	1	A
Aroclor 1248	ND		ug/kg	35.2	2.97	1	A
Aroclor 1254	ND		ug/kg	35.2	2.89	1	A
Aroclor 1260	ND		ug/kg	35.2	2.68	1	A
Aroclor 1262	ND		ug/kg	35.2	1.74	1	A
Aroclor 1268	ND		ug/kg	35.2	5.10	1	A
PCBs, Total	ND		ug/kg	35.2	1.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	102		30-150	B

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-16	Date Collected:	10/21/15 11:05
Client ID:	FIELD BLANK	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	10/24/15 04:08
Analytical Date:	10/24/15 21:12	Cleanup Method:	EPA 3665A
Analyst:	TQ	Cleanup Date:	10/24/15
		Cleanup Method:	EPA 3660B
		Cleanup Date:	10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A
PCBs, Total	ND		ug/l	0.083	0.029	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	32		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	40		30-150	A

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/24/15 23:43
Analyst: KE

Extraction Method: EPA 3546
Extraction Date: 10/23/15 23:06
Cleanup Method: EPA 3665A
Cleanup Date: 10/24/15
Cleanup Method: EPA 3660B
Cleanup Date: 10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-07,09-10,12-13,15 Batch: WG833807-1						
Aroclor 1016	ND		ug/kg	31.4	2.48	A
Aroclor 1221	ND		ug/kg	31.4	2.89	A
Aroclor 1232	ND		ug/kg	31.4	3.68	A
Aroclor 1242	ND		ug/kg	31.4	3.84	A
Aroclor 1248	ND		ug/kg	31.4	2.65	A
Aroclor 1254	ND		ug/kg	31.4	2.58	A
Aroclor 1260	ND		ug/kg	31.4	2.39	A
Aroclor 1262	ND		ug/kg	31.4	1.56	A
Aroclor 1268	ND		ug/kg	31.4	4.55	A
PCBs, Total	ND		ug/kg	31.4	1.56	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/24/15 19:52
Analyst: TQ

Extraction Method: EPA 3510C
Extraction Date: 10/24/15 04:08
Cleanup Method: EPA 3665A
Cleanup Date: 10/24/15
Cleanup Method: EPA 3660B
Cleanup Date: 10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 16 Batch: WG833857-1						
Aroclor 1016	ND		ug/l	0.083	0.055	A
Aroclor 1221	ND		ug/l	0.083	0.053	A
Aroclor 1232	ND		ug/l	0.083	0.031	A
Aroclor 1242	ND		ug/l	0.083	0.060	A
Aroclor 1248	ND		ug/l	0.083	0.051	A
Aroclor 1254	ND		ug/l	0.083	0.034	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.029	A
Aroclor 1268	ND		ug/l	0.083	0.038	A
PCBs, Total	ND		ug/l	0.083	0.029	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	67		30-150	B
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	76		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-07,09-10,12-13,15 Batch: WG833807-2 WG833807-3									
Aroclor 1016	77		78		40-140	1		50	A
Aroclor 1260	56		60		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		83		30-150	A
Decachlorobiphenyl	56		63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		76		30-150	B
Decachlorobiphenyl	85		90		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 16 Batch: WG833857-2 WG833857-3									
Aroclor 1016	118		103		40-140	14		50	A
Aroclor 1260	110		102		40-140	8		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		60		30-150	B
Decachlorobiphenyl	56		59		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		58		30-150	A
Decachlorobiphenyl	65		69		30-150	A

PESTICIDES

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-01	Date Collected:	10/21/15 09:30
Client ID:	SS-8 (0-2)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	10/23/15 21:27
Analytical Date:	10/25/15 15:41	Cleanup Method:	EPA 3620B
Analyst:	AL	Cleanup Date:	10/24/15
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.338	1	A
Lindane	ND		ug/kg	0.719	0.321	1	A
Alpha-BHC	ND		ug/kg	0.719	0.204	1	A
Beta-BHC	ND		ug/kg	1.72	0.654	1	A
Heptachlor	ND		ug/kg	0.863	0.387	1	A
Aldrin	ND		ug/kg	1.72	0.607	1	A
Heptachlor epoxide	ND		ug/kg	3.24	0.970	1	A
Endrin	ND		ug/kg	0.719	0.295	1	A
Endrin ketone	ND		ug/kg	1.72	0.444	1	A
Dieldrin	ND		ug/kg	1.08	0.539	1	A
4,4'-DDE	ND		ug/kg	1.72	0.399	1	A
4,4'-DDD	ND		ug/kg	1.72	0.615	1	A
4,4'-DDT	ND		ug/kg	3.24	1.39	1	A
Endosulfan I	ND		ug/kg	1.72	0.408	1	A
Endosulfan II	4.55		ug/kg	1.72	0.576	1	B
Endosulfan sulfate	ND		ug/kg	0.719	0.342	1	A
Methoxychlor	ND		ug/kg	3.24	1.01	1	A
Toxaphene	ND		ug/kg	32.4	9.06	1	A
cis-Chlordane	ND		ug/kg	2.16	0.601	1	A
trans-Chlordane	0.960	J	ug/kg	2.16	0.569	1	B
Chlordane	ND	PI	ug/kg	14.0	5.72	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	76		30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	78		30-150	A

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-02	Date Collected:	10/21/15 09:40
Client ID:	SS-8 (11-13)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	10/23/15 21:27
Analytical Date:	10/25/15 15:56	Cleanup Method:	EPA 3620B
Analyst:	AL	Cleanup Date:	10/24/15
Percent Solids:	93%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.331	1	A
Lindane	ND		ug/kg	0.704	0.314	1	A
Alpha-BHC	ND		ug/kg	0.704	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.640	1	A
Heptachlor	ND		ug/kg	0.844	0.378	1	A
Aldrin	ND		ug/kg	1.69	0.594	1	A
Heptachlor epoxide	ND		ug/kg	3.17	0.950	1	A
Endrin	ND		ug/kg	0.704	0.288	1	A
Endrin ketone	ND		ug/kg	1.69	0.435	1	A
Dieldrin	ND		ug/kg	1.06	0.528	1	A
4,4'-DDE	ND		ug/kg	1.69	0.390	1	A
4,4'-DDD	ND		ug/kg	1.69	0.602	1	A
4,4'-DDT	ND		ug/kg	3.17	1.36	1	A
Endosulfan I	ND		ug/kg	1.69	0.399	1	A
Endosulfan II	ND		ug/kg	1.69	0.564	1	A
Endosulfan sulfate	ND		ug/kg	0.704	0.335	1	A
Methoxychlor	ND		ug/kg	3.17	0.985	1	A
Toxaphene	ND		ug/kg	31.7	8.86	1	A
cis-Chlordane	ND		ug/kg	2.11	0.588	1	A
trans-Chlordane	ND		ug/kg	2.11	0.557	1	A
Chlordane	ND		ug/kg	13.7	5.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	116		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	69		30-150	A

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-03
Client ID: SS-7 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/25/15 16:12
Analyst: AL
Percent Solids: 89%

Date Collected: 10/21/15 09:55
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/23/15 21:27
Cleanup Method: EPA 3620B
Cleanup Date: 10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.340	1	A
Lindane	ND		ug/kg	0.724	0.323	1	A
Alpha-BHC	ND		ug/kg	0.724	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.658	1	A
Heptachlor	ND		ug/kg	0.868	0.389	1	A
Aldrin	ND		ug/kg	1.74	0.611	1	A
Heptachlor epoxide	ND		ug/kg	3.26	0.977	1	A
Endrin	ND		ug/kg	0.724	0.297	1	A
Endrin ketone	ND		ug/kg	1.74	0.447	1	A
Dieldrin	ND		ug/kg	1.08	0.543	1	A
4,4'-DDE	ND		ug/kg	1.74	0.402	1	A
4,4'-DDD	ND		ug/kg	1.74	0.619	1	A
4,4'-DDT	ND		ug/kg	3.26	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.410	1	A
Endosulfan II	ND		ug/kg	1.74	0.580	1	A
Endosulfan sulfate	ND		ug/kg	0.724	0.344	1	A
Methoxychlor	ND		ug/kg	3.26	1.01	1	A
Toxaphene	ND		ug/kg	32.6	9.12	1	A
cis-Chlordane	ND		ug/kg	2.17	0.605	1	A
trans-Chlordane	1.83	J	ug/kg	2.17	0.573	1	B
Chlordane	ND		ug/kg	14.1	5.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	77		30-150	A

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-04
Client ID: SS-7 (9-11)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/25/15 16:27
Analyst: AL
Percent Solids: 86%

Date Collected: 10/21/15 10:00
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/23/15 21:27
Cleanup Method: EPA 3620B
Cleanup Date: 10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.352	1	A
Lindane	ND		ug/kg	0.749	0.335	1	A
Alpha-BHC	ND		ug/kg	0.749	0.213	1	A
Beta-BHC	ND		ug/kg	1.80	0.681	1	A
Heptachlor	ND		ug/kg	0.899	0.403	1	A
Aldrin	ND		ug/kg	1.80	0.633	1	A
Heptachlor epoxide	ND		ug/kg	3.37	1.01	1	A
Endrin	ND		ug/kg	0.749	0.307	1	A
Endrin ketone	ND		ug/kg	1.80	0.463	1	A
Dieldrin	ND		ug/kg	1.12	0.562	1	A
4,4'-DDE	ND		ug/kg	1.80	0.416	1	A
4,4'-DDD	ND		ug/kg	1.80	0.641	1	A
4,4'-DDT	ND		ug/kg	3.37	1.44	1	A
Endosulfan I	ND		ug/kg	1.80	0.425	1	A
Endosulfan II	ND		ug/kg	1.80	0.600	1	A
Endosulfan sulfate	ND		ug/kg	0.749	0.356	1	A
Methoxychlor	ND		ug/kg	3.37	1.05	1	A
Toxaphene	ND		ug/kg	33.7	9.44	1	A
cis-Chlordane	ND		ug/kg	2.25	0.626	1	A
trans-Chlordane	ND	PI	ug/kg	2.25	0.593	1	A
Chlordane	ND		ug/kg	14.6	5.95	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	71		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	81		30-150	A

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-05
Client ID: SS-3A (6-8)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/25/15 16:43
Analyst: AL
Percent Solids: 83%

Date Collected: 10/21/15 10:23
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/23/15 21:27
Cleanup Method: EPA 3620B
Cleanup Date: 10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.89	0.370	1	A
Lindane	ND		ug/kg	0.787	0.352	1	A
Alpha-BHC	ND		ug/kg	0.787	0.223	1	A
Beta-BHC	ND		ug/kg	1.89	0.716	1	A
Heptachlor	ND		ug/kg	0.944	0.423	1	A
Aldrin	ND		ug/kg	1.89	0.665	1	A
Heptachlor epoxide	ND		ug/kg	3.54	1.06	1	A
Endrin	ND		ug/kg	0.787	0.322	1	A
Endrin ketone	ND		ug/kg	1.89	0.486	1	A
Dieldrin	ND		ug/kg	1.18	0.590	1	A
4,4'-DDE	ND		ug/kg	1.89	0.437	1	A
4,4'-DDD	ND		ug/kg	1.89	0.673	1	A
4,4'-DDT	ND		ug/kg	3.54	1.52	1	A
Endosulfan I	ND		ug/kg	1.89	0.446	1	A
Endosulfan II	ND		ug/kg	1.89	0.631	1	A
Endosulfan sulfate	ND		ug/kg	0.787	0.374	1	A
Methoxychlor	ND		ug/kg	3.54	1.10	1	A
Toxaphene	ND		ug/kg	35.4	9.91	1	A
cis-Chlordane	ND		ug/kg	2.36	0.658	1	A
trans-Chlordane	ND	PI	ug/kg	2.36	0.623	1	A
Chlordane	ND		ug/kg	15.3	6.25	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	89		30-150	B
2,4,5,6-Tetrachloro-m-xylene	104		30-150	A
Decachlorobiphenyl	113		30-150	A

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-06	Date Collected:	10/21/15 10:30
Client ID:	SS-4 (0-2)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	10/23/15 21:27
Analytical Date:	10/25/15 16:59	Cleanup Method:	EPA 3620B
Analyst:	AL	Cleanup Date:	10/24/15
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.87	0.366	1	A
Lindane	ND		ug/kg	0.779	0.348	1	A
Alpha-BHC	ND		ug/kg	0.779	0.221	1	A
Beta-BHC	ND		ug/kg	1.87	0.709	1	A
Heptachlor	ND		ug/kg	0.935	0.419	1	A
Aldrin	ND		ug/kg	1.87	0.659	1	A
Heptachlor epoxide	ND		ug/kg	3.51	1.05	1	A
Endrin	ND		ug/kg	0.779	0.320	1	A
Endrin ketone	ND		ug/kg	1.87	0.482	1	A
Dieldrin	ND		ug/kg	1.17	0.584	1	A
4,4'-DDE	5.75		ug/kg	1.87	0.432	1	A
4,4'-DDD	ND		ug/kg	1.87	0.667	1	A
4,4'-DDT	ND		ug/kg	3.51	1.50	1	A
Endosulfan I	ND		ug/kg	1.87	0.442	1	A
Endosulfan II	ND		ug/kg	1.87	0.625	1	A
Endosulfan sulfate	ND		ug/kg	0.779	0.371	1	A
Methoxychlor	ND		ug/kg	3.51	1.09	1	A
Toxaphene	ND		ug/kg	35.1	9.82	1	A
cis-Chlordane	ND		ug/kg	2.34	0.652	1	A
trans-Chlordane	ND		ug/kg	2.34	0.617	1	A
Chlordane	ND		ug/kg	15.2	6.20	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	127		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	**164**	Q	30-150	A

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-07	Date Collected:	10/21/15 10:40
Client ID:	SS-4 (6-8)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	10/23/15 21:27
Analytical Date:	10/27/15 23:08	Cleanup Method:	EPA 3620B
Analyst:	KE	Cleanup Date:	10/24/15
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.71	0.335	1	A
Lindane	ND		ug/kg	0.712	0.318	1	A
Alpha-BHC	ND		ug/kg	0.712	0.202	1	A
Beta-BHC	ND		ug/kg	1.71	0.648	1	A
Heptachlor	ND		ug/kg	0.855	0.383	1	A
Aldrin	ND		ug/kg	1.71	0.602	1	A
Heptachlor epoxide	ND		ug/kg	3.21	0.962	1	A
Endrin	ND		ug/kg	0.712	0.292	1	A
Endrin ketone	ND		ug/kg	1.71	0.440	1	A
Dieldrin	ND		ug/kg	1.07	0.534	1	A
4,4'-DDE	ND		ug/kg	1.71	0.395	1	A
4,4'-DDD	ND		ug/kg	1.71	0.610	1	A
4,4'-DDT	2.58	J	ug/kg	3.21	1.38	1	A
Endosulfan I	ND		ug/kg	1.71	0.404	1	A
Endosulfan II	ND		ug/kg	1.71	0.571	1	A
Endosulfan sulfate	ND		ug/kg	0.712	0.339	1	A
Methoxychlor	ND		ug/kg	3.21	0.997	1	A
Toxaphene	ND		ug/kg	32.1	8.98	1	A
cis-Chlordane	ND		ug/kg	2.14	0.596	1	A
trans-Chlordane	ND		ug/kg	2.14	0.564	1	A
Chlordane	ND		ug/kg	13.9	5.66	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	135		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	117		30-150	A

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-09	Date Collected:	10/21/15 10:54
Client ID:	SS-2A (6-8)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	10/23/15 21:27
Analytical Date:	10/27/15 23:21	Cleanup Method:	EPA 3620B
Analyst:	KE	Cleanup Date:	10/24/15
Percent Solids:	83%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.85	0.362	1	A
Lindane	ND		ug/kg	0.770	0.344	1	A
Alpha-BHC	ND		ug/kg	0.770	0.219	1	A
Beta-BHC	ND		ug/kg	1.85	0.701	1	A
Heptachlor	ND		ug/kg	0.924	0.414	1	A
Aldrin	ND		ug/kg	1.85	0.651	1	A
Heptachlor epoxide	ND		ug/kg	3.46	1.04	1	A
Endrin	ND		ug/kg	0.770	0.316	1	A
Endrin ketone	ND		ug/kg	1.85	0.476	1	A
Dieldrin	ND		ug/kg	1.16	0.578	1	A
4,4'-DDE	ND		ug/kg	1.85	0.427	1	A
4,4'-DDD	ND		ug/kg	1.85	0.659	1	A
4,4'-DDT	ND		ug/kg	3.46	1.49	1	A
Endosulfan I	ND		ug/kg	1.85	0.437	1	A
Endosulfan II	ND		ug/kg	1.85	0.618	1	A
Endosulfan sulfate	ND		ug/kg	0.770	0.366	1	A
Methoxychlor	ND		ug/kg	3.46	1.08	1	A
Toxaphene	ND		ug/kg	34.6	9.70	1	A
cis-Chlordane	ND		ug/kg	2.31	0.644	1	A
trans-Chlordane	ND		ug/kg	2.31	0.610	1	A
Chlordane	ND		ug/kg	15.0	6.12	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	B
Decachlorobiphenyl	140		30-150	B
2,4,5,6-Tetrachloro-m-xylene	101		30-150	A
Decachlorobiphenyl	144		30-150	A

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-10	Date Collected:	10/21/15 12:55
Client ID:	SS-5 (0-2)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	10/23/15 21:27
Analytical Date:	10/27/15 23:34	Cleanup Method:	EPA 3620B
Analyst:	KE	Cleanup Date:	10/24/15
Percent Solids:	91%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.329	1	A
Lindane	ND		ug/kg	0.699	0.313	1	A
Alpha-BHC	ND		ug/kg	0.699	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.636	1	A
Heptachlor	ND		ug/kg	0.839	0.376	1	A
Aldrin	ND		ug/kg	1.68	0.591	1	A
Heptachlor epoxide	ND		ug/kg	3.15	0.944	1	A
Endrin	ND		ug/kg	0.699	0.287	1	A
Endrin ketone	ND		ug/kg	1.68	0.432	1	A
Dieldrin	ND		ug/kg	1.05	0.524	1	A
4,4'-DDE	ND		ug/kg	1.68	0.388	1	A
4,4'-DDD	ND		ug/kg	1.68	0.599	1	A
4,4'-DDT	ND		ug/kg	3.15	1.35	1	A
Endosulfan I	ND		ug/kg	1.68	0.396	1	A
Endosulfan II	ND		ug/kg	1.68	0.561	1	A
Endosulfan sulfate	ND		ug/kg	0.699	0.333	1	A
Methoxychlor	ND		ug/kg	3.15	0.979	1	A
Toxaphene	ND		ug/kg	31.5	8.81	1	A
cis-Chlordane	ND		ug/kg	2.10	0.585	1	A
trans-Chlordane	ND		ug/kg	2.10	0.554	1	A
Chlordane	ND		ug/kg	13.6	5.56	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	145		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	141		30-150	A

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-12	Date Collected:	10/21/15 13:00
Client ID:	SS-5 (4-6)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	10/23/15 21:27
Analytical Date:	10/28/15 11:02	Cleanup Method:	EPA 3620B
Analyst:	AM	Cleanup Date:	10/24/15
Percent Solids:	92%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.331	1	A
Lindane	ND		ug/kg	0.705	0.315	1	A
Alpha-BHC	ND		ug/kg	0.705	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.642	1	A
Heptachlor	ND		ug/kg	0.846	0.379	1	A
Aldrin	ND		ug/kg	1.69	0.596	1	A
Heptachlor epoxide	ND		ug/kg	3.17	0.952	1	A
Endrin	ND		ug/kg	0.705	0.289	1	A
Endrin ketone	ND		ug/kg	1.69	0.436	1	A
Dieldrin	ND		ug/kg	1.06	0.529	1	A
4,4'-DDE	ND		ug/kg	1.69	0.391	1	A
4,4'-DDD	ND		ug/kg	1.69	0.604	1	A
4,4'-DDT	ND		ug/kg	3.17	1.36	1	A
Endosulfan I	ND		ug/kg	1.69	0.400	1	A
Endosulfan II	2.46	PI	ug/kg	1.69	0.565	1	A
Endosulfan sulfate	ND		ug/kg	0.705	0.336	1	A
Methoxychlor	ND		ug/kg	3.17	0.987	1	A
Toxaphene	ND		ug/kg	31.7	8.88	1	A
cis-Chlordane	ND		ug/kg	2.12	0.589	1	A
trans-Chlordane	ND		ug/kg	2.12	0.558	1	A
Chlordane	ND		ug/kg	13.7	5.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	131		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	112		30-150	A

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-13
Client ID: SS-6 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/28/15 11:15
Analyst: AM
Percent Solids: 89%

Date Collected: 10/21/15 14:00
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/23/15 21:27
Cleanup Method: EPA 3620B
Cleanup Date: 10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.336	1	A
Lindane	ND		ug/kg	0.715	0.320	1	A
Alpha-BHC	ND		ug/kg	0.715	0.203	1	A
Beta-BHC	ND		ug/kg	1.72	0.651	1	A
Heptachlor	ND		ug/kg	0.858	0.385	1	A
Aldrin	ND		ug/kg	1.72	0.604	1	A
Heptachlor epoxide	ND		ug/kg	3.22	0.965	1	A
Endrin	ND		ug/kg	0.715	0.293	1	A
Endrin ketone	ND		ug/kg	1.72	0.442	1	A
Dieldrin	ND		ug/kg	1.07	0.536	1	A
4,4'-DDE	ND		ug/kg	1.72	0.397	1	A
4,4'-DDD	ND		ug/kg	1.72	0.612	1	A
4,4'-DDT	ND		ug/kg	3.22	1.38	1	A
Endosulfan I	ND		ug/kg	1.72	0.405	1	A
Endosulfan II	3.40	PI	ug/kg	1.72	0.573	1	A
Endosulfan sulfate	ND		ug/kg	0.715	0.340	1	A
Methoxychlor	ND		ug/kg	3.22	1.00	1	A
Toxaphene	ND		ug/kg	32.2	9.01	1	A
cis-Chlordane	ND		ug/kg	2.14	0.598	1	A
trans-Chlordane	ND		ug/kg	2.14	0.566	1	A
Chlordane	ND		ug/kg	13.9	5.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	118		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	141		30-150	A

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-15	Date Collected:	10/21/15 14:05
Client ID:	SS-6 (4-5)	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	10/23/15 21:27
Analytical Date:	10/28/15 00:14	Cleanup Method:	EPA 3620B
Analyst:	KE	Cleanup Date:	10/24/15
Percent Solids:	93%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.331	1	A
Lindane	ND		ug/kg	0.705	0.315	1	A
Alpha-BHC	ND		ug/kg	0.705	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.642	1	A
Heptachlor	ND		ug/kg	0.846	0.379	1	A
Aldrin	ND		ug/kg	1.69	0.596	1	A
Heptachlor epoxide	ND		ug/kg	3.17	0.952	1	A
Endrin	ND		ug/kg	0.705	0.289	1	A
Endrin ketone	ND		ug/kg	1.69	0.436	1	A
Dieldrin	ND		ug/kg	1.06	0.529	1	A
4,4'-DDE	ND		ug/kg	1.69	0.391	1	A
4,4'-DDD	ND		ug/kg	1.69	0.604	1	A
4,4'-DDT	1.89	J	ug/kg	3.17	1.36	1	A
Endosulfan I	ND		ug/kg	1.69	0.400	1	A
Endosulfan II	ND		ug/kg	1.69	0.566	1	A
Endosulfan sulfate	ND		ug/kg	0.705	0.336	1	A
Methoxychlor	ND		ug/kg	3.17	0.987	1	A
Toxaphene	ND		ug/kg	31.7	8.89	1	A
cis-Chlordane	ND		ug/kg	2.12	0.590	1	A
trans-Chlordane	ND		ug/kg	2.12	0.558	1	A
Chlordane	ND		ug/kg	13.8	5.61	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	125		30-150	B
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	126		30-150	A

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

SAMPLE RESULTS

Lab ID:	L1526897-16	Date Collected:	10/21/15 11:05
Client ID:	FIELD BLANK	Date Received:	10/21/15
Sample Location:	911 ATLANTIC AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	10/22/15 21:44
Analytical Date:	10/24/15 04:45	Cleanup Method:	EPA 3620B
Analyst:	KE	Cleanup Date:	10/23/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/24/15 03:11
Analyst: KE

Extraction Method: EPA 3510C
Extraction Date: 10/22/15 21:44
Cleanup Method: EPA 3620B
Cleanup Date: 10/23/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 16 Batch: WG833380-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	106		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	99		30-150	B

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/25/15 13:04
Analyst: AL

Extraction Method: EPA 3546
Extraction Date: 10/23/15 21:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-07,09-10,12-13,15 Batch: WG833796-1						
Delta-BHC	ND		ug/kg	1.55	0.304	A
Lindane	ND		ug/kg	0.647	0.289	A
Alpha-BHC	ND		ug/kg	0.647	0.184	A
Beta-BHC	ND		ug/kg	1.55	0.589	A
Heptachlor	ND		ug/kg	0.776	0.348	A
Aldrin	ND		ug/kg	1.55	0.546	A
Heptachlor epoxide	ND		ug/kg	2.91	0.873	A
Endrin	ND		ug/kg	0.647	0.265	A
Endrin ketone	ND		ug/kg	1.55	0.400	A
Dieldrin	ND		ug/kg	0.970	0.485	A
4,4'-DDE	ND		ug/kg	1.55	0.359	A
4,4'-DDD	ND		ug/kg	1.55	0.554	A
4,4'-DDT	ND		ug/kg	2.91	1.25	A
Endosulfan I	ND		ug/kg	1.55	0.367	A
Endosulfan II	ND		ug/kg	1.55	0.519	A
Endosulfan sulfate	ND		ug/kg	0.647	0.308	A
Methoxychlor	ND		ug/kg	2.91	0.906	A
Toxaphene	ND		ug/kg	29.1	8.15	A
cis-Chlordane	ND		ug/kg	1.94	0.541	A
trans-Chlordane	0.609	J	ug/kg	1.94	0.512	A
Chlordane	ND		ug/kg	12.6	5.14	A

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/25/15 13:04
Analyst: AL

Extraction Method: EPA 3546
Extraction Date: 10/23/15 21:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/24/15

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-07,09-10,12-13,15 Batch: WG833796-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	76		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 16 Batch: WG833380-2 WG833380-3									
Delta-BHC	95		88		30-150	7		20	A
Lindane	101		93		30-150	8		20	A
Alpha-BHC	113		102		30-150	10		20	A
Beta-BHC	100		91		30-150	9		20	A
Heptachlor	98		90		30-150	9		20	A
Aldrin	108		98		30-150	10		20	A
Heptachlor epoxide	105		96		30-150	9		20	A
Endrin	130		117		30-150	11		20	A
Endrin ketone	115		107		30-150	7		20	A
Dieldrin	133		120		30-150	10		20	A
4,4'-DDE	121		109		30-150	10		20	A
4,4'-DDD	120		108		30-150	11		20	A
4,4'-DDT	119		107		30-150	11		20	A
Endosulfan I	117		107		30-150	9		20	A
Endosulfan II	120		111		30-150	8		20	A
Endosulfan sulfate	107		101		30-150	6		20	A
Methoxychlor	140		127		30-150	10		20	A
cis-Chlordane	115		102		30-150	12		20	A
trans-Chlordane	125		113		30-150	10		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 16 Batch: WG833380-2 WG833380-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		92		30-150	A
Decachlorobiphenyl	109		104		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		84		30-150	B
Decachlorobiphenyl	103		98		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-07,09-10,12-13,15 Batch: WG833796-2 WG833796-3									
Delta-BHC	96		68		30-150	**34**	Q	30	A
Lindane	93		68		30-150	**31**	Q	30	A
Alpha-BHC	97		72		30-150	30		30	A
Beta-BHC	99		72		30-150	**32**	Q	30	A
Heptachlor	97		68		30-150	**35**	Q	30	A
Aldrin	100		72		30-150	**33**	Q	30	A
Heptachlor epoxide	91		67		30-150	30		30	A
Endrin	117		86		30-150	**31**	Q	30	A
Endrin ketone	105		77		30-150	**31**	Q	30	A
Dieldrin	118		88		30-150	29		30	A
4,4'-DDE	113		82		30-150	**32**	Q	30	A
4,4'-DDD	112		81		30-150	**32**	Q	30	A
4,4'-DDT	127		86		30-150	**38**	Q	30	A
Endosulfan I	106		77		30-150	**32**	Q	30	A
Endosulfan II	111		81		30-150	**31**	Q	30	A
Endosulfan sulfate	108		76		30-150	**35**	Q	30	A
Methoxychlor	129		98		30-150	27		30	A
cis-Chlordane	101		75		30-150	30		30	A
trans-Chlordane	102		83		30-150	21		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-07,09-10,12-13,15 Batch: WG833796-2 WG833796-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		71		30-150	B
Decachlorobiphenyl	109		91		30-150	B
2,4,5,6-Tetrachloro-m-xylene	98		75		30-150	A
Decachlorobiphenyl	127		97		30-150	A

METALS

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-01
Client ID: SS-8 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil
Percent Solids: 90%

Date Collected: 10/21/15 09:30
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	8200		mg/kg	8.7	1.7	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Antimony, Total	ND		mg/kg	4.4	0.70	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Arsenic, Total	4.9		mg/kg	0.87	0.17	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Barium, Total	51		mg/kg	0.87	0.26	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Beryllium, Total	0.36	J	mg/kg	0.44	0.09	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.87	0.06	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Calcium, Total	5200		mg/kg	8.7	2.6	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Chromium, Total	19		mg/kg	0.87	0.17	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Cobalt, Total	6.0		mg/kg	1.7	0.44	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Copper, Total	22		mg/kg	0.87	0.17	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Iron, Total	15000		mg/kg	4.4	1.7	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Lead, Total	86		mg/kg	4.4	0.17	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Magnesium, Total	3700		mg/kg	8.7	0.87	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Manganese, Total	380		mg/kg	0.87	0.17	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Mercury, Total	0.17		mg/kg	0.07	0.02	1	10/22/15 08:40	10/22/15 12:24	EPA 7471B	1,7471B	DB
Nickel, Total	23		mg/kg	2.2	0.35	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Potassium, Total	850		mg/kg	220	35.	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.7	0.26	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.87	0.17	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Sodium, Total	640		mg/kg	170	26.	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	1.7	0.35	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Vanadium, Total	26		mg/kg	0.87	0.09	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS
Zinc, Total	52		mg/kg	4.4	0.61	2	10/22/15 05:35	10/27/15 01:32	EPA 3050B	1,6010C	PS

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-02
Client ID: SS-8 (11-13)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil
Percent Solids: 93%

Date Collected: 10/21/15 09:40
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6500		mg/kg	8.4	1.7	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Antimony, Total	ND		mg/kg	4.2	0.67	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Arsenic, Total	3.8		mg/kg	0.84	0.17	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Barium, Total	33		mg/kg	0.84	0.25	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Beryllium, Total	0.28	J	mg/kg	0.42	0.08	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.84	0.06	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Calcium, Total	1100		mg/kg	8.4	2.5	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Chromium, Total	19		mg/kg	0.84	0.17	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Cobalt, Total	5.6		mg/kg	1.7	0.42	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Copper, Total	18		mg/kg	0.84	0.17	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Iron, Total	25000		mg/kg	4.2	1.7	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Lead, Total	ND		mg/kg	4.2	0.17	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Magnesium, Total	2000		mg/kg	8.4	0.84	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Manganese, Total	470		mg/kg	0.84	0.17	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Mercury, Total	0.03	J	mg/kg	0.07	0.01	1	10/22/15 08:40	10/22/15 12:26	EPA 7471B	1,7471B	DB
Nickel, Total	14		mg/kg	2.1	0.33	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Potassium, Total	960		mg/kg	210	33.	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.7	0.25	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.84	0.17	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Sodium, Total	120	J	mg/kg	170	25.	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	1.7	0.33	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Vanadium, Total	29		mg/kg	0.84	0.08	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS
Zinc, Total	38		mg/kg	4.2	0.58	2	10/22/15 05:35	10/27/15 01:36	EPA 3050B	1,6010C	PS

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-03
Client ID: SS-7 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil
Percent Solids: 89%

Date Collected: 10/21/15 09:55
Date Received: 10/21/15
Field Prep: Not Specified

Total Metals - Westborough Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	9000		mg/kg	8.8	1.8	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Antimony, Total	0.81	J	mg/kg	4.4	0.71	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Arsenic, Total	8.7		mg/kg	0.88	0.18	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Barium, Total	60		mg/kg	0.88	0.26	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Beryllium, Total	0.37	J	mg/kg	0.44	0.09	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.88	0.06	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Calcium, Total	3300		mg/kg	8.8	2.6	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Chromium, Total	17		mg/kg	0.88	0.18	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Cobalt, Total	8.5		mg/kg	1.8	0.44	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Copper, Total	29		mg/kg	0.88	0.18	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Iron, Total	21000		mg/kg	4.4	1.8	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Lead, Total	50		mg/kg	4.4	0.18	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Magnesium, Total	3500		mg/kg	8.8	0.88	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Manganese, Total	510		mg/kg	0.88	0.18	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Mercury, Total	0.14		mg/kg	0.07	0.02	1	10/22/15 08:40	10/22/15 12:28	EPA 7471B	1,7471B	DB
Nickel, Total	24		mg/kg	2.2	0.35	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Potassium, Total	1000		mg/kg	220	35.	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.8	0.26	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.88	0.18	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Sodium, Total	240		mg/kg	180	26.	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	1.8	0.35	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Vanadium, Total	57		mg/kg	0.88	0.09	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS
Zinc, Total	60		mg/kg	4.4	0.62	2	10/22/15 05:35	10/27/15 01:40	EPA 3050B	1,6010C	PS

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-04
Client ID: SS-7 (9-11)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil
Percent Solids: 86%

Date Collected: 10/21/15 10:00
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	16000		mg/kg	9.3	1.8	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Antimony, Total	0.89	J	mg/kg	4.6	0.74	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Arsenic, Total	6.8		mg/kg	0.93	0.18	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Barium, Total	34		mg/kg	0.93	0.28	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Beryllium, Total	0.36	J	mg/kg	0.46	0.09	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.93	0.07	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Calcium, Total	840		mg/kg	9.3	2.8	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Chromium, Total	22		mg/kg	0.93	0.18	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Cobalt, Total	6.3		mg/kg	1.8	0.46	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Copper, Total	18		mg/kg	0.93	0.18	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Iron, Total	23000		mg/kg	4.6	1.8	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Lead, Total	4.0	J	mg/kg	4.6	0.18	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Magnesium, Total	2500		mg/kg	9.3	0.93	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Manganese, Total	220		mg/kg	0.93	0.18	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Mercury, Total	ND		mg/kg	0.08	0.02	1	10/22/15 08:40	10/22/15 12:29	EPA 7471B	1,7471B	DB
Nickel, Total	14		mg/kg	2.3	0.37	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Potassium, Total	620		mg/kg	230	37.	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.8	0.28	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.93	0.18	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Sodium, Total	51	J	mg/kg	180	28.	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	1.8	0.37	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Vanadium, Total	30		mg/kg	0.93	0.09	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS
Zinc, Total	41		mg/kg	4.6	0.65	2	10/22/15 05:35	10/27/15 01:44	EPA 3050B	1,6010C	PS

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-05
Client ID: SS-3A (6-8)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil
Percent Solids: 83%

Date Collected: 10/21/15 10:23
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	10000		mg/kg	9.6	1.9	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Antimony, Total	ND		mg/kg	4.8	0.76	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Arsenic, Total	6.3		mg/kg	0.96	0.19	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Barium, Total	77		mg/kg	0.96	0.29	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Beryllium, Total	0.44	J	mg/kg	0.48	0.10	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.96	0.07	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Calcium, Total	1400		mg/kg	9.6	2.9	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Chromium, Total	20		mg/kg	0.96	0.19	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Cobalt, Total	7.5		mg/kg	1.9	0.48	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Copper, Total	20		mg/kg	0.96	0.19	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Iron, Total	16000		mg/kg	4.8	1.9	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Lead, Total	84		mg/kg	4.8	0.19	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Magnesium, Total	2100		mg/kg	9.6	0.96	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Manganese, Total	350		mg/kg	0.96	0.19	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Mercury, Total	0.22		mg/kg	0.08	0.02	1	10/22/15 08:40	10/22/15 12:31	EPA 7471B	1,7471B	DB
Nickel, Total	18		mg/kg	2.4	0.38	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Potassium, Total	700		mg/kg	240	38.	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.9	0.29	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.96	0.19	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Sodium, Total	230		mg/kg	190	29.	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	1.9	0.38	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Vanadium, Total	26		mg/kg	0.96	0.10	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS
Zinc, Total	110		mg/kg	4.8	0.67	2	10/22/15 05:35	10/27/15 01:47	EPA 3050B	1,6010C	PS

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-06
Client ID: SS-4 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil
Percent Solids: 84%

Date Collected: 10/21/15 10:30
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	10000		mg/kg	9.5	1.9	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Antimony, Total	4.0	J	mg/kg	4.7	0.76	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Arsenic, Total	9.5		mg/kg	0.95	0.19	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Barium, Total	180		mg/kg	0.95	0.28	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Beryllium, Total	0.44	J	mg/kg	0.47	0.10	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Cadmium, Total	2.6		mg/kg	0.95	0.07	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Calcium, Total	1600		mg/kg	9.5	2.8	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Chromium, Total	18		mg/kg	0.95	0.19	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Cobalt, Total	11		mg/kg	1.9	0.47	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Copper, Total	93		mg/kg	0.95	0.19	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Iron, Total	31000		mg/kg	4.7	1.9	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Lead, Total	780		mg/kg	4.7	0.19	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Magnesium, Total	2100		mg/kg	9.5	0.95	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Manganese, Total	420		mg/kg	0.95	0.19	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Mercury, Total	0.24		mg/kg	0.08	0.02	1	10/22/15 08:40	10/22/15 12:36	EPA 7471B	1,7471B	DB
Nickel, Total	39		mg/kg	2.4	0.38	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Potassium, Total	660		mg/kg	240	38.	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.9	0.28	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.95	0.19	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Sodium, Total	110	J	mg/kg	190	28.	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	1.9	0.38	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Vanadium, Total	31		mg/kg	0.95	0.10	2	10/22/15 05:35	10/27/15 01:51	EPA 3050B	1,6010C	PS
Zinc, Total	2500		mg/kg	24	3.3	10	10/22/15 05:35	10/27/15 06:49	EPA 3050B	1,6010C	PS

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-07
Client ID: SS-4 (6-8)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil
Percent Solids: 89%

Date Collected: 10/21/15 10:40
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	9500		mg/kg	9.0	1.8	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Antimony, Total	ND		mg/kg	4.5	0.72	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Arsenic, Total	6.0		mg/kg	0.90	0.18	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Barium, Total	50		mg/kg	0.90	0.27	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Beryllium, Total	0.38	J	mg/kg	0.45	0.09	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.90	0.06	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Calcium, Total	3500		mg/kg	9.0	2.7	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Chromium, Total	18		mg/kg	0.90	0.18	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Cobalt, Total	6.2		mg/kg	1.8	0.45	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Copper, Total	26		mg/kg	0.90	0.18	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Iron, Total	16000		mg/kg	4.5	1.8	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Lead, Total	67		mg/kg	4.5	0.18	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Magnesium, Total	2300		mg/kg	9.0	0.90	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Manganese, Total	180		mg/kg	0.90	0.18	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Mercury, Total	0.04	J	mg/kg	0.08	0.02	1	10/22/15 08:40	10/22/15 12:38	EPA 7471B	1,7471B	DB
Nickel, Total	20		mg/kg	2.2	0.36	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Potassium, Total	580		mg/kg	220	36.	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.8	0.27	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.90	0.18	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Sodium, Total	110	J	mg/kg	180	27.	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	1.8	0.36	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Vanadium, Total	23		mg/kg	0.90	0.09	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS
Zinc, Total	58		mg/kg	4.5	0.63	2	10/22/15 05:35	10/27/15 01:55	EPA 3050B	1,6010C	PS

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-09
Client ID: SS-2A (6-8)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil
Percent Solids: 83%

Date Collected: 10/21/15 10:54
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	8900		mg/kg	9.6	1.9	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Antimony, Total	0.80	J	mg/kg	4.8	0.77	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Arsenic, Total	11		mg/kg	0.96	0.19	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Barium, Total	230		mg/kg	0.96	0.29	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Beryllium, Total	0.40	J	mg/kg	0.48	0.10	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.96	0.07	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Calcium, Total	2400		mg/kg	9.6	2.9	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Chromium, Total	23		mg/kg	0.96	0.19	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Cobalt, Total	7.2		mg/kg	1.9	0.48	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Copper, Total	38		mg/kg	0.96	0.19	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Iron, Total	17000		mg/kg	4.8	1.9	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Lead, Total	730		mg/kg	4.8	0.19	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Magnesium, Total	3400		mg/kg	9.6	0.96	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Manganese, Total	360		mg/kg	0.96	0.19	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Mercury, Total	3.1		mg/kg	0.08	0.02	1	10/22/15 08:40	10/22/15 12:40	EPA 7471B	1,7471B	DB
Nickel, Total	25		mg/kg	2.4	0.38	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Potassium, Total	1300		mg/kg	240	38.	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.9	0.29	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Silver, Total	0.29	J	mg/kg	0.96	0.19	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Sodium, Total	420		mg/kg	190	29.	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	1.9	0.38	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Vanadium, Total	25		mg/kg	0.96	0.10	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS
Zinc, Total	210		mg/kg	4.8	0.67	2	10/22/15 05:35	10/27/15 02:20	EPA 3050B	1,6010C	PS

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-10
Client ID: SS-5 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil
Percent Solids: 91%

Date Collected: 10/21/15 12:55
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	7400		mg/kg	8.5	1.7	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Antimony, Total	ND		mg/kg	4.2	0.68	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Arsenic, Total	4.4		mg/kg	0.85	0.17	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Barium, Total	42		mg/kg	0.85	0.25	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Beryllium, Total	0.31	J	mg/kg	0.42	0.09	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.85	0.06	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Calcium, Total	12000		mg/kg	8.5	2.5	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Chromium, Total	15		mg/kg	0.85	0.17	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Cobalt, Total	22		mg/kg	1.7	0.42	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Copper, Total	24		mg/kg	0.85	0.17	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Iron, Total	15000		mg/kg	4.2	1.7	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Lead, Total	14		mg/kg	4.2	0.17	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Magnesium, Total	2700		mg/kg	8.5	0.85	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Manganese, Total	300		mg/kg	0.85	0.17	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Mercury, Total	0.04	J	mg/kg	0.07	0.02	1	10/22/15 08:40	10/22/15 12:42	EPA 7471B	1,7471B	DB
Nickel, Total	29		mg/kg	2.1	0.34	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Potassium, Total	890		mg/kg	210	34.	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.7	0.25	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.85	0.17	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Sodium, Total	180		mg/kg	170	25.	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	1.7	0.34	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Vanadium, Total	24		mg/kg	0.85	0.09	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS
Zinc, Total	30		mg/kg	4.2	0.59	2	10/22/15 05:35	10/27/15 02:23	EPA 3050B	1,6010C	PS

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-12
Client ID: SS-5 (4-6)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil
Percent Solids: 92%

Date Collected: 10/21/15 13:00
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	8900		mg/kg	8.6	1.7	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Antimony, Total	ND		mg/kg	4.3	0.69	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Arsenic, Total	5.2		mg/kg	0.86	0.17	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Barium, Total	56		mg/kg	0.86	0.26	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Beryllium, Total	0.36	J	mg/kg	0.43	0.09	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.86	0.06	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Calcium, Total	4200		mg/kg	8.6	2.6	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Chromium, Total	20		mg/kg	0.86	0.17	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Cobalt, Total	7.6		mg/kg	1.7	0.43	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Copper, Total	28		mg/kg	0.86	0.17	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Iron, Total	16000		mg/kg	4.3	1.7	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Lead, Total	85		mg/kg	4.3	0.17	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Magnesium, Total	3400		mg/kg	8.6	0.86	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Manganese, Total	360		mg/kg	0.86	0.17	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Mercury, Total	0.10		mg/kg	0.07	0.02	1	10/22/15 08:40	10/22/15 12:43	EPA 7471B	1,7471B	DB
Nickel, Total	26		mg/kg	2.2	0.34	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Potassium, Total	960		mg/kg	220	34.	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.7	0.26	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.86	0.17	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Sodium, Total	110	J	mg/kg	170	26.	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	1.7	0.34	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Vanadium, Total	29		mg/kg	0.86	0.09	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS
Zinc, Total	66		mg/kg	4.3	0.60	2	10/22/15 05:35	10/27/15 02:27	EPA 3050B	1,6010C	PS

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-13
Client ID: SS-6 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil
Percent Solids: 89%

Date Collected: 10/21/15 14:00
Date Received: 10/21/15
Field Prep: Not Specified

Total Metals - Westborough Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	8700		mg/kg	8.8	1.8	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Antimony, Total	3.2	J	mg/kg	4.4	0.71	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Arsenic, Total	12		mg/kg	0.88	0.18	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Barium, Total	250		mg/kg	0.88	0.26	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Beryllium, Total	0.42	J	mg/kg	0.44	0.09	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.88	0.06	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Calcium, Total	16000		mg/kg	8.8	2.6	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Chromium, Total	22		mg/kg	0.88	0.18	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Cobalt, Total	9.9		mg/kg	1.8	0.44	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Copper, Total	61		mg/kg	0.88	0.18	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Iron, Total	19000		mg/kg	4.4	1.8	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Lead, Total	1200		mg/kg	4.4	0.18	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Magnesium, Total	2900		mg/kg	8.8	0.88	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Manganese, Total	330		mg/kg	0.88	0.18	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Mercury, Total	2.6		mg/kg	0.07	0.02	1	10/22/15 08:40	10/22/15 12:45	EPA 7471B	1,7471B	DB
Nickel, Total	25		mg/kg	2.2	0.35	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Potassium, Total	1100		mg/kg	220	35.	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.8	0.26	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Silver, Total	0.28	J	mg/kg	0.88	0.18	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Sodium, Total	270		mg/kg	180	26.	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	1.8	0.35	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Vanadium, Total	25		mg/kg	0.88	0.09	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS
Zinc, Total	290		mg/kg	4.4	0.62	2	10/22/15 09:28	10/23/15 16:03	EPA 3050B	1,6010C	PS

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-15
Client ID: SS-6 (4-5)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil
Percent Solids: 93%

Date Collected: 10/21/15 14:05
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	7400		mg/kg	8.1	1.6	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Antimony, Total	0.64	J	mg/kg	4.0	0.64	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Arsenic, Total	5.2		mg/kg	0.81	0.16	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Barium, Total	53		mg/kg	0.81	0.24	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Beryllium, Total	0.32	J	mg/kg	0.40	0.08	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.81	0.06	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Calcium, Total	1500		mg/kg	8.1	2.4	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Chromium, Total	17		mg/kg	0.81	0.16	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Cobalt, Total	7.0		mg/kg	1.6	0.40	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Copper, Total	89		mg/kg	0.81	0.16	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Iron, Total	13000		mg/kg	4.0	1.6	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Lead, Total	39		mg/kg	4.0	0.16	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Magnesium, Total	3000		mg/kg	8.1	0.81	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Manganese, Total	320		mg/kg	0.81	0.16	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Mercury, Total	0.22		mg/kg	0.07	0.01	1	10/22/15 08:40	10/22/15 12:47	EPA 7471B	1,7471B	DB
Nickel, Total	29		mg/kg	2.0	0.32	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Potassium, Total	1100		mg/kg	200	32.	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.6	0.24	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.81	0.16	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Sodium, Total	100	J	mg/kg	160	24.	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	1.6	0.32	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Vanadium, Total	22		mg/kg	0.81	0.08	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS
Zinc, Total	62		mg/kg	4.0	0.56	2	10/22/15 09:28	10/23/15 16:07	EPA 3050B	1,6010C	PS

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1526897
Project Number: 911 ATLANTIC AVE
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-16
Client ID: FIELD BLANK
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Water
Date Collected: 10/21/15 11:05
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.027	J	mg/l	0.10	0.020	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Antimony, Total	ND		mg/l	0.0500	0.0080	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Arsenic, Total	ND		mg/l	0.0050	0.0020	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Barium, Total	ND		mg/l	0.0100	0.0030	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Beryllium, Total	ND		mg/l	0.0050	0.0010	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Cadmium, Total	ND		mg/l	0.0050	0.0007	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Calcium, Total	0.085	J	mg/l	0.10	0.030	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Chromium, Total	ND		mg/l	0.010	0.0020	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Cobalt, Total	ND		mg/l	0.0200	0.0050	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Copper, Total	ND		mg/l	0.0100	0.0020	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Iron, Total	0.034	J	mg/l	0.050	0.020	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Lead, Total	ND		mg/l	0.0100	0.0020	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Magnesium, Total	ND		mg/l	0.10	0.010	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Manganese, Total	ND		mg/l	0.0100	0.0020	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Mercury, Total	ND		mg/l	0.00020	0.00006	1	10/22/15 11:48	10/22/15 20:49	EPA 7470A	1,7470A	EA
Nickel, Total	ND		mg/l	0.0250	0.0040	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Potassium, Total	ND		mg/l	2.5	0.40	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Selenium, Total	ND		mg/l	0.0100	0.0030	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Silver, Total	ND		mg/l	0.0070	0.0020	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Sodium, Total	ND		mg/l	2.0	0.30	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Thallium, Total	ND		mg/l	0.0200	0.0040	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Vanadium, Total	ND		mg/l	0.0100	0.0010	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS
Zinc, Total	ND		mg/l	0.0500	0.0070	1	10/22/15 08:45	10/23/15 20:04	EPA 3005A	1,6010C	PS

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-07,09-10,12-13,15 Batch: WG833046-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	10/22/15 08:40	10/22/15 11:35	1,7471B	DB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-07,09-10,12 Batch: WG833061-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Antimony, Total	0.55	J	mg/kg	2.0	0.32	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Arsenic, Total	ND		mg/kg	0.40	0.08	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Barium, Total	ND		mg/kg	0.40	0.12	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Beryllium, Total	ND		mg/kg	0.20	0.04	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.40	0.03	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Calcium, Total	ND		mg/kg	4.0	1.2	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Chromium, Total	ND		mg/kg	0.40	0.08	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Cobalt, Total	ND		mg/kg	0.80	0.20	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Copper, Total	ND		mg/kg	0.40	0.08	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Iron, Total	ND		mg/kg	2.0	0.80	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Lead, Total	ND		mg/kg	2.0	0.08	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Magnesium, Total	ND		mg/kg	4.0	0.40	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Manganese, Total	ND		mg/kg	0.40	0.08	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Nickel, Total	ND		mg/kg	1.0	0.16	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Potassium, Total	ND		mg/kg	100	16.	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Selenium, Total	ND		mg/kg	0.80	0.12	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Silver, Total	ND		mg/kg	0.40	0.08	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Sodium, Total	ND		mg/kg	80	12.	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Thallium, Total	ND		mg/kg	0.80	0.16	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Vanadium, Total	ND		mg/kg	0.40	0.04	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS
Zinc, Total	ND		mg/kg	2.0	0.28	1	10/22/15 05:35	10/26/15 22:15	1,6010C	PS

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE
Lab Number: L1526897
Report Date: 10/28/15

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 13,15 Batch: WG833109-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Antimony, Total	0.74	J	mg/kg	2.0	0.32	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Arsenic, Total	ND		mg/kg	0.40	0.08	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Barium, Total	ND		mg/kg	0.40	0.12	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Beryllium, Total	ND		mg/kg	0.20	0.04	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.40	0.03	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Calcium, Total	ND		mg/kg	4.0	1.2	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Chromium, Total	ND		mg/kg	0.40	0.08	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Cobalt, Total	ND		mg/kg	0.80	0.20	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Copper, Total	0.27	J	mg/kg	0.40	0.08	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Iron, Total	ND		mg/kg	2.0	0.80	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Lead, Total	ND		mg/kg	2.0	0.08	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Magnesium, Total	ND		mg/kg	4.0	0.40	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Manganese, Total	ND		mg/kg	0.40	0.08	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Nickel, Total	ND		mg/kg	1.0	0.16	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Potassium, Total	ND		mg/kg	100	16.	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Selenium, Total	ND		mg/kg	0.80	0.12	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Silver, Total	ND		mg/kg	0.40	0.08	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Sodium, Total	ND		mg/kg	80	12.	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Thallium, Total	ND		mg/kg	0.80	0.16	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Vanadium, Total	ND		mg/kg	0.40	0.04	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS
Zinc, Total	ND		mg/kg	2.0	0.28	1	10/22/15 09:28	10/23/15 12:31	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1526897

Project Number: 911 ATLANTIC AVE **Report Date:** 10/28/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 16 Batch: WG833120-1										
Aluminum, Total	ND		mg/l	0.10	0.020	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Antimony, Total	ND		mg/l	0.0500	0.0080	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Arsenic, Total	ND		mg/l	0.0050	0.0020	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Barium, Total	ND		mg/l	0.0100	0.0030	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Beryllium, Total	ND		mg/l	0.0050	0.0010	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Cadmium, Total	ND		mg/l	0.0050	0.0007	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Calcium, Total	ND		mg/l	0.10	0.030	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Chromium, Total	0.0023	J	mg/l	0.010	0.0020	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Cobalt, Total	ND		mg/l	0.0200	0.0050	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Copper, Total	ND		mg/l	0.0100	0.0020	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Iron, Total	ND		mg/l	0.050	0.020	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Lead, Total	ND		mg/l	0.0100	0.0020	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Magnesium, Total	ND		mg/l	0.10	0.010	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Manganese, Total	ND		mg/l	0.0100	0.0020	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Nickel, Total	ND		mg/l	0.0250	0.0040	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Potassium, Total	ND		mg/l	2.5	0.40	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Selenium, Total	ND		mg/l	0.0100	0.0030	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Silver, Total	ND		mg/l	0.0070	0.0020	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Sodium, Total	ND		mg/l	2.0	0.30	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Thallium, Total	ND		mg/l	0.0200	0.0040	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Vanadium, Total	ND		mg/l	0.0100	0.0010	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS
Zinc, Total	ND		mg/l	0.0500	0.0070	1	10/22/15 08:45	10/23/15 18:39	1,6010C	PS

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 16 Batch: WG833185-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	10/22/15 11:48	10/22/15 20:21	1,7470A	EA

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07,09-10,12-13,15 Batch: WG833046-2 SRM Lot Number: D088-540								
Mercury, Total	86		-		72-128	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07,09-10,12 Batch: WG833061-2 SRM Lot Number: D088-540					
Aluminum, Total	88	-	48-151	-	
Antimony, Total	159	-	1-208	-	
Arsenic, Total	105	-	79-121	-	
Barium, Total	99	-	83-117	-	
Beryllium, Total	95	-	83-117	-	
Cadmium, Total	94	-	83-117	-	
Calcium, Total	92	-	81-119	-	
Chromium, Total	92	-	80-120	-	
Cobalt, Total	92	-	84-115	-	
Copper, Total	98	-	81-118	-	
Iron, Total	103	-	45-155	-	
Lead, Total	85	-	81-117	-	
Magnesium, Total	94	-	76-124	-	
Manganese, Total	98	-	81-118	-	
Nickel, Total	94	-	83-117	-	
Potassium, Total	100	-	71-129	-	
Selenium, Total	102	-	78-122	-	
Silver, Total	98	-	75-124	-	
Sodium, Total	99	-	72-127	-	
Thallium, Total	100	-	80-120	-	
Vanadium, Total	97	-	78-122	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07,09-10,12 Batch: WG833061-2 SRM Lot Number: D088-540					
Zinc, Total	97	-	82-118	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 13,15 Batch: WG833109-2 SRM Lot Number: D088-540					
Aluminum, Total	90	-	48-151	-	
Antimony, Total	196	-	1-208	-	
Arsenic, Total	105	-	79-121	-	
Barium, Total	94	-	83-117	-	
Beryllium, Total	96	-	83-117	-	
Cadmium, Total	95	-	83-117	-	
Calcium, Total	89	-	81-119	-	
Chromium, Total	101	-	80-120	-	
Cobalt, Total	92	-	84-115	-	
Copper, Total	98	-	81-118	-	
Iron, Total	96	-	45-155	-	
Lead, Total	86	-	81-117	-	
Magnesium, Total	91	-	76-124	-	
Manganese, Total	93	-	81-118	-	
Nickel, Total	95	-	83-117	-	
Potassium, Total	96	-	71-129	-	
Selenium, Total	102	-	78-122	-	
Silver, Total	105	-	75-124	-	
Sodium, Total	95	-	72-127	-	
Thallium, Total	95	-	80-120	-	
Vanadium, Total	97	-	78-122	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 13,15 Batch: WG833109-2 SRM Lot Number: D088-540					
Zinc, Total	92	-	82-118	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 16 Batch: WG833120-2					
Aluminum, Total	105	-	80-120	-	
Antimony, Total	85	-	80-120	-	
Arsenic, Total	106	-	80-120	-	
Barium, Total	106	-	80-120	-	
Beryllium, Total	98	-	80-120	-	
Cadmium, Total	112	-	80-120	-	
Calcium, Total	100	-	80-120	-	
Chromium, Total	100	-	80-120	-	
Cobalt, Total	99	-	80-120	-	
Copper, Total	101	-	80-120	-	
Iron, Total	95	-	80-120	-	
Lead, Total	103	-	80-120	-	
Magnesium, Total	110	-	80-120	-	
Manganese, Total	98	-	80-120	-	
Nickel, Total	99	-	80-120	-	
Potassium, Total	100	-	80-120	-	
Selenium, Total	108	-	80-120	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	110	-	80-120	-	
Thallium, Total	102	-	80-120	-	
Vanadium, Total	103	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1526897

Report Date: 10/28/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 16 Batch: WG833120-2					
Zinc, Total	102	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 16 Batch: WG833185-2					
Mercury, Total	103	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07,09-10,12-13,15 QC Batch ID: WG833046-4 QC Sample: L1526901-03 Client ID: MS Sample												
Mercury, Total	0.03J	0.153	0.20	**131**	Q	-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07,09-10,12 QC Batch ID: WG833061-4 QC Sample: L1526893-09 Client ID: MS Sample										
Aluminum, Total	9400	160	9400	**0**	Q	-	-	75-125	-	20
Antimony, Total	1.2J	40	39	97		-	-	75-125	-	20
Arsenic, Total	2.6	9.61	12	98		-	-	75-125	-	20
Barium, Total	67.	160	230	102		-	-	75-125	-	20
Beryllium, Total	0.17J	4	4.1	102		-	-	75-125	-	20
Cadmium, Total	ND	4.08	4.0	98		-	-	75-125	-	20
Calcium, Total	12000	801	10000	**0**	Q	-	-	75-125	-	20
Chromium, Total	19.	16	32	81		-	-	75-125	-	20
Cobalt, Total	8.4	40	44	89		-	-	75-125	-	20
Copper, Total	20.	20	38	90		-	-	75-125	-	20
Iron, Total	16000	80.1	15000	**0**	Q	-	-	75-125	-	20
Lead, Total	ND	40.8	36	88		-	-	75-125	-	20
Magnesium, Total	12000	801	11000	**0**	Q	-	-	75-125	-	20
Manganese, Total	310	40	280	**0**	Q	-	-	75-125	-	20
Nickel, Total	13.	40	50	92		-	-	75-125	-	20
Potassium, Total	2800	801	3600	100		-	-	75-125	-	20
Selenium, Total	0.31J	9.61	9.5	99		-	-	75-125	-	20
Silver, Total	ND	24	25	104		-	-	75-125	-	20
Sodium, Total	740	801	1600	107		-	-	75-125	-	20
Thallium, Total	ND	9.61	8.4	87		-	-	75-125	-	20
Vanadium, Total	23.	40	63	100		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07,09-10,12 QC Batch ID: WG833061-4 QC Sample: L1526893-09 Client ID: MS Sample									
Zinc, Total	39.	40	80	102	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 13,15 QC Batch ID: WG833109-4 QC Sample: L1526891-01 Client ID: MS Sample										
Aluminum, Total	2900	181	3500	**331**	Q	-	-	75-125	-	20
Antimony, Total	ND	45.3	44.J	97		-	-	75-125	-	20
Arsenic, Total	22.	10.9	34	110		-	-	75-125	-	20
Barium, Total	2200	181	3000	**442**	Q	-	-	75-125	-	20
Beryllium, Total	ND	4.53	4.3J	95		-	-	75-125	-	20
Cadmium, Total	2.0J	4.62	6.7J	**145**	Q	-	-	75-125	-	20
Calcium, Total	6100	906	7800	**188**	Q	-	-	75-125	-	20
Chromium, Total	230	18.1	290	**331**	Q	-	-	75-125	-	20
Cobalt, Total	ND	45.3	43	95		-	-	75-125	-	20
Copper, Total	67.	22.6	110	**190**	Q	-	-	75-125	-	20
Iron, Total	13000	90.6	18000	**5520**	Q	-	-	75-125	-	20
Lead, Total	2100	46.2	2800	**1520**	Q	-	-	75-125	-	20
Magnesium, Total	870	906	1800	103		-	-	75-125	-	20
Manganese, Total	82.	45.3	150	**150**	Q	-	-	75-125	-	20
Nickel, Total	23.J	45.3	58	**128**	Q	-	-	75-125	-	20
Potassium, Total	ND	906	1300J	**144**	Q	-	-	75-125	-	20
Selenium, Total	18.J	10.9	15.J	**138**	Q	-	-	75-125	-	20
Silver, Total	ND	27.2	29	107		-	-	75-125	-	20
Sodium, Total	ND	906	730J	81		-	-	75-125	-	20
Thallium, Total	ND	10.9	8.9J	82		-	-	75-125	-	20
Vanadium, Total	11.J	45.3	62	**137**	Q	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 13,15 QC Batch ID: WG833109-4 QC Sample: L1526891-01 Client ID: MS Sample										
Zinc, Total	540	45.3	530	**0**	Q	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 16 QC Batch ID: WG833120-4 QC Sample: L1526864-01 Client ID: MS Sample									
Aluminum, Total	0.11	2	2.1	100	-	-	75-125	-	20
Antimony, Total	0.0310J	0.5	0.409	82	-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.126	105	-	-	75-125	-	20
Barium, Total	ND	2	2.10	105	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.0483	97	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.0558	109	-	-	75-125	-	20
Calcium, Total	0.15	10	10	98	-	-	75-125	-	20
Chromium, Total	0.0043J	0.2	0.19	95	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.490	98	-	-	75-125	-	20
Copper, Total	ND	0.25	0.249	100	-	-	75-125	-	20
Iron, Total	0.44	1	1.3	86	-	-	75-125	-	20
Lead, Total	ND	0.51	0.518	102	-	-	75-125	-	20
Magnesium, Total	0.046J	10	11	110	-	-	75-125	-	20
Manganese, Total	0.0063J	0.5	0.488	98	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.487	97	-	-	75-125	-	20
Potassium, Total	ND	10	10	100	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.126	105	-	-	75-125	-	20
Silver, Total	ND	0.05	0.0502	100	-	-	75-125	-	20
Sodium, Total	0.38J	10	11	110	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.121	101	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.502	100	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 16 QC Batch ID: WG833120-4 QC Sample: L1526864-01 Client ID: MS Sample										
Zinc, Total	ND	0.5	0.505	101		-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 16 QC Batch ID: WG833185-4 QC Sample: L1526788-02 Client ID: MS Sample										
Mercury, Total	0.08052	0.005	0.08416	**73**	Q	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07,09-10,12-13,15 QC Batch ID: WG833046-3 QC Sample: L1526901-03 Client ID: DUP Sample						
Mercury, Total	0.03J	0.04J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07,09-10,12 QC Batch ID: WG833061-3 QC Sample: L1526893-09 Client ID: DUP Sample						
Aluminum, Total	9400	8300	mg/kg	12		20
Antimony, Total	1.2J	0.77J	mg/kg	NC		20
Arsenic, Total	2.6	1.9	mg/kg	**31**	Q	20
Barium, Total	67.	68	mg/kg	1		20
Beryllium, Total	0.17J	0.13J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	12000	9600	mg/kg	**22**	Q	20
Chromium, Total	19.	17	mg/kg	11		20
Cobalt, Total	8.4	7.9	mg/kg	6		20
Copper, Total	20.	18	mg/kg	11		20
Iron, Total	16000	15000	mg/kg	6		20
Lead, Total	ND	ND	mg/kg	NC		20
Magnesium, Total	12000	9600	mg/kg	**22**	Q	20
Manganese, Total	310	400	mg/kg	**25**	Q	20
Nickel, Total	13.	12	mg/kg	8		20
Potassium, Total	2800	2700	mg/kg	4		20
Selenium, Total	0.31J	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	740	640	mg/kg	14		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07,09-10,12 QC Batch ID: WG833061-3 QC Sample: L1526893-09 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	23.	21	mg/kg	9	20
Zinc, Total	39.	36	mg/kg	8	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 13,15 QC Batch ID: WG833109-3 QC Sample: L1526891-01 Client ID: DUP Sample						
Aluminum, Total	2900	3200	mg/kg	10		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	22.	18J	mg/kg	NC		20
Barium, Total	2200	2600	mg/kg	17		20
Beryllium, Total	ND	ND	mg/kg	NC		20
Cadmium, Total	2.0J	2.4J	mg/kg	NC		20
Calcium, Total	6100	6200	mg/kg	2		20
Chromium, Total	230	230	mg/kg	0		20
Cobalt, Total	ND	ND	mg/kg	NC		20
Copper, Total	67.	77	mg/kg	14		20
Iron, Total	13000	15000	mg/kg	14		20
Lead, Total	2100	3200	mg/kg	**42**	Q	20
Magnesium, Total	870	780	mg/kg	11		20
Manganese, Total	82.	82	mg/kg	0		20
Nickel, Total	23.J	14J	mg/kg	NC		20
Potassium, Total	ND	ND	mg/kg	NC		20
Selenium, Total	18.J	6.5J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 13,15 QC Batch ID: WG833109-3 QC Sample: L1526891-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	11.J	13J	mg/kg	NC	20
Zinc, Total	540	500	mg/kg	8	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 16 QC Batch ID: WG833120-3 QC Sample: L1526864-01 Client ID: DUP Sample					
Aluminum, Total	0.11	0.10	mg/l	10	20
Antimony, Total	0.0310J	0.0146J	mg/l	NC	20
Arsenic, Total	ND	ND	mg/l	NC	20
Barium, Total	ND	ND	mg/l	NC	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Calcium, Total	0.15	0.14	mg/l	7	20
Chromium, Total	0.0043J	0.0040J	mg/l	NC	20
Cobalt, Total	ND	ND	mg/l	NC	20
Copper, Total	ND	0.0030J	mg/l	NC	20
Iron, Total	0.44	0.40	mg/l	10	20
Lead, Total	ND	ND	mg/l	NC	20
Magnesium, Total	0.046J	0.043J	mg/l	NC	20
Manganese, Total	0.0063J	0.0056J	mg/l	NC	20
Nickel, Total	ND	ND	mg/l	NC	20
Potassium, Total	ND	ND	mg/l	NC	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	0.38J	0.34J	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 16 QC Batch ID: WG833120-3 QC Sample: L1526864-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20
Total Metals - Westborough Lab Associated sample(s): 16 QC Batch ID: WG833185-3 QC Sample: L1526788-02 Client ID: DUP Sample					
Mercury, Total	0.08052	0.08030	mg/l	0	20

INORGANICS
&
MISCELLANEOUS

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-01
Client ID: SS-8 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil

Date Collected: 10/21/15 09:30
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	10/22/15 03:05	30,2540G	RT

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-02
Client ID: SS-8 (11-13)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil

Date Collected: 10/21/15 09:40
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.2		%	0.100	NA	1	-	10/22/15 03:05	30,2540G	RT

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-03
Client ID: SS-7 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil

Date Collected: 10/21/15 09:55
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.1		%	0.100	NA	1	-	10/22/15 03:05	30,2540G	RT

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-04
Client ID: SS-7 (9-11)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil

Date Collected: 10/21/15 10:00
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.6		%	0.100	NA	1	-	10/22/15 03:05	30,2540G	RT

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-05
Client ID: SS-3A (6-8)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil

Date Collected: 10/21/15 10:23
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.7		%	0.100	NA	1	-	10/22/15 03:05	30,2540G	RT

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-06
Client ID: SS-4 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil

Date Collected: 10/21/15 10:30
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	10/22/15 03:05	30,2540G	RT

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-07
Client ID: SS-4 (6-8)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil

Date Collected: 10/21/15 10:40
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.5		%	0.100	NA	1	-	10/22/15 03:05	30,2540G	RT

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-09
Client ID: SS-2A (6-8)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil

Date Collected: 10/21/15 10:54
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	10/22/15 03:05	30,2540G	RT

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-10
Client ID: SS-5 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil

Date Collected: 10/21/15 12:55
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	10/22/15 03:05	30,2540G	RT

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-12
Client ID: SS-5 (4-6)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil

Date Collected: 10/21/15 13:00
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4		%	0.100	NA	1	-	10/22/15 03:05	30,2540G	RT

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-13
Client ID: SS-6 (0-2)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil

Date Collected: 10/21/15 14:00
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	10/22/15 03:05	30,2540G	RT

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

SAMPLE RESULTS

Lab ID: L1526897-15
Client ID: SS-6 (4-5)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil

Date Collected: 10/21/15 14:05
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.1		%	0.100	NA	1	-	10/22/15 03:05	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07,09-10,12-13,15 QC Batch ID: WG833054-1 QC Sample: L1526893-21 Client ID: DUP Sample						
Solids, Total	95.8	91.4	%	5		20

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1526897-01A	Vial Large Septa unpreserved (4o	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-01A9	Vial MeOH preserved split	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-01B	Glass 250ml/8oz unpreserved	B	N/A	4.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1526897-02A	Vial Large Septa unpreserved (4o	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-02A9	Vial MeOH preserved split	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-02B	Glass 250ml/8oz unpreserved	B	N/A	4.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1526897-03A	Vial Large Septa unpreserved (4o	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-03A9	Vial MeOH preserved split	B	N/A	4.9	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1526897-03B	Glass 250ml/8oz unpreserved	B	N/A	4.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1526897-04A	Vial Large Septa unpreserved (4o	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-04A9	Vial MeOH preserved split	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-04B	Glass 250ml/8oz unpreserved	B	N/A	4.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1526897-05A	Vial Large Septa unpreserved (4o	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-05A9	Vial MeOH preserved split	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-05B	Glass 250ml/8oz unpreserved	B	N/A	4.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1526897-06A	Vial Large Septa unpreserved (4o	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-06A9	Vial MeOH preserved split	B	N/A	4.9	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1526897-06B	Glass 250ml/8oz unpreserved	B	N/A	4.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1526897-07A	Vial Large Septa unpreserved (4o	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-07A9	Vial MeOH preserved split	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-07B	Glass 250ml/8oz unpreserved	B	N/A	4.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1526897-08A	Vial Large Septa unpreserved (4o	B	N/A	4.9	Y	Absent	HOLD-8260(14)
L1526897-08B	Glass 250ml/8oz unpreserved	B	N/A	4.9	Y	Absent	HOLD-8081(14),HOLD-8270(14),HOLD-METAL(180),HOLD-8082()
L1526897-09A	Vial Large Septa unpreserved (4o	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-09A9	Vial MeOH preserved split	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-09B	Glass 250ml/8oz unpreserved	B	N/A	4.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1526897-10A	Vial Large Septa unpreserved (4o	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-10A9	Vial MeOH preserved split	B	N/A	4.9	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1526897-10B	Glass 250ml/8oz unpreserved	B	N/A	4.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1526897-11A	Vial Large Septa unpreserved (4o	B	N/A	4.9	Y	Absent	HOLD-8260(14)
L1526897-11B	Glass 250ml/8oz unpreserved	B	N/A	4.9	Y	Absent	HOLD-8081(14),HOLD-8270(14),HOLD-METAL(180),HOLD-8082()
L1526897-12A	Vial Large Septa unpreserved (4o	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-12A9	Vial MeOH preserved split	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-12B	Glass 250ml/8oz unpreserved	B	N/A	4.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1526897-13A	Vial Large Septa unpreserved (4o	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-13A9	Vial MeOH preserved split	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-13B	Glass 250ml/8oz unpreserved	B	N/A	4.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1526897-14A	Vial Large Septa unpreserved (4o	B	N/A	4.9	Y	Absent	HOLD-8260(14)
L1526897-14B	Glass 250ml/8oz unpreserved	B	N/A	4.9	Y	Absent	HOLD-8081(14),HOLD-8270(14),HOLD-METAL(180),HOLD-8082()
L1526897-15A	Vial Large Septa unpreserved (4o	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1526897-15A9	Vial MeOH preserved split	B	N/A	4.9	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1526897
Report Date: 10/28/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1526897-15B	Glass 250ml/8oz unpreserved	B	N/A	4.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1526897-16A	Vial HCl preserved	A	N/A	5.2	Y	Absent	NYTCL-8260(14)
L1526897-16B	Vial HCl preserved	A	N/A	5.2	Y	Absent	NYTCL-8260(14)
L1526897-16C	Vial HCl preserved	A	N/A	5.2	Y	Absent	NYTCL-8260(14)
L1526897-16D	Plastic 250ml HNO3 preserved	A	<2	5.2	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1526897-16E	Amber 500ml unpreserved	A	7	5.2	Y	Absent	NYTCL-8081(7)
L1526897-16F	Amber 500ml unpreserved	A	7	5.2	Y	Absent	NYTCL-8081(7)
L1526897-16G	Amber 1000ml unpreserved	A	7	5.2	Y	Absent	NYTCL-8270(7)
L1526897-16H	Amber 1000ml unpreserved	A	7	5.2	Y	Absent	NYTCL-8270(7)
L1526897-16I	Amber 1000ml unpreserved	A	7	5.2	Y	Absent	NYTCL-8082-1200ML(7)
L1526897-16J	Amber 1000ml unpreserved	A	7	5.2	Y	Absent	NYTCL-8082-1200ML(7)
L1526897-17A	Vial HCl preserved	A	N/A	5.2	Y	Absent	NYTCL-8260(14)
L1526897-17B	Vial HCl preserved	A	N/A	5.2	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	911 ATLANTIC AAVE.	**Lab Number:**	L1526897
Project Number:	911 ATLANTIC AVE	**Report Date:**	10/28/15

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers

Project Name:	911 ATLANTIC AAVE.	**Lab Number:**	L1526897
Project Number:	911 ATLANTIC AVE	**Report Date:**	10/28/15

Data Qualifiers

C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
J	- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
ND	- Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	911 ATLANTIC AAVE.	**Lab Number:**	L1526897
Project Number:	911 ATLANTIC AVE	**Report Date:**	10/28/15

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide) (soil), Methyl methacrylate (soil), Azobenzene.
EPA 8270D: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 10/21/15

ALPHA Job #: L1526897

Client Information

Client: Tetra Environmental
Address: 121 West 27th Street, Ny, NY, 10001
Phone: (646-606-2332
Fax:
Email: MCarroll@tetra-env.com

Project Information

Project Name: 911 Atlantic Ave
Project Location: 911 Atlantic Ave, Brooklyn, NY
Project # 911 Atlantic Ave
(Use Project name as Project #) [X]
Project Manager: Matt Carroll
ALPHAQuote #:

Turn-Around Time

Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables

[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Billing Information

[X] Same as Client Info
PO #

Regulatory Requirement

[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[X] NY Restricted Use [ ] Other
[X] NY Unrestricted Use
[ ] NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL volatiles - EPA 8260C	NYEPA 8270D SIM LOW LEVEL	TCL Pesticides EPA 8081B	TCL PCBs EPA 8082A	TAL Metals - Total 6010C				Sample Specific Comments	Total Bottle
26897-01	SS-8 (0-2)	10/21/15	0930	S	CT	X	X	X	X	X					
02	SS-8 (11-13)	10/21/15	0940	S	CT	X	X	X	X	X					
03	SS-7 (0-2)	"	0955	S	CT	X	X	X	X	X					
04	SS-7 (9-11)	"	1000	S	CT	X	X	X	X	X					
05	SS-3A (0-8)	"	1023	S	CT	X	X	X	X	X					
06	SS-4 (0-2)	"	1030	S	CT	X	X	X	X	X					
07	SS-4 (6-8)	"	1040	S	CT	X	X	X	X	X					
08	SS-2A (4-5)	"	1050	S	CT	X	X	X	X	X				HOLD	
09	SS-2A (6-8)	"	1054	S	CT	X	X	X	X	X					
10	SS-5 (0-2)	"	1255	S	CT	X	X	X	X	X					
	Container Type					A	A	A	A	A					
	Preservative					A	A	A	A	A					

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	10/21/15 1445		10/21/15 1445
	10/21/15 1821	Tom Tobin	10-21-15 1820
Tom Tobin	10/21/15 2255		10/21/15 2255

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 10/21/15

ALPHA Job #: L1526897

Client Information

Client: Tenen Environmental
Address: 121 W 27th Street
NY, NY, 10001
Phone: 646-606-2332
Fax:
Email: MCARROLL@tenen-env.com

Project Information

Project Name: 911 Atlantic Ave
Project Location: 911 Atlantic Ave, Brooklyn, NY
Project # 911 Atlantic Ave
(Use Project name as Project #) [X]
Project Manager: Matt Carroll
ALPHAQuote #:

Turn-Around Time

Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables

[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Regulatory Requirement

[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information

[X] Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

TCL VOA+10 - EPA 8260C
2-EPA 8270D SIM LOW LVL
TCL pesticides EPA 8081B
TCL PCBs EPA 8082A
TAL Metals - Total 6010C

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

Sample Specific Comments

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOA+10	2-EPA 8270D SIM LOW LVL	TCL pesticides EPA 8081B	TCL PCBs EPA 8082A	TAL Metals - Total 6010C	Sample Specific Comments
26897 - 11	SS-5 (2-4)	10/21/15	1305	S	CZ	X	X	X	X	X	HOLD
12	SS-5 (4-6)	10/21/15	1300	S	CZ	X	X	X	X	X	
13	SS-6 (0-2)	"	1400	S	CZ	X	X	X	X	X	
14	SS-6 (2-4)	"	1410	S	CZ	X	X	X	X	X	HOLD
15	SS-6 (4-5)	"	1405	S	CZ	X	X	X	X	X	
16	Field blank	"	1105	W	CZ	X	X	X	X	X	
17	TRIP BLANK	—	—	W	—	X					

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A	A	A	A				
Preservative	A	A	A	A	A				

Relinquished By:	Date/Time	Received By:	Date/Time
	10/21/15 1445	10/21/15	10/21/15 1445
	10/21/15 1820		10-21-15 1821
	10/21/15 2255	AAL	10/21/15 2255

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1528078
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 303 New York City, NY 10001
ATTN:	Matt Carroll
Phone:	(646) 606-2332
Project Name:	911 ATLANTIC AAVE.
Project Number:	911 ATLANTIC AVE
Report Date:	11/05/15

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1528078
Report Date: 11/05/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1528078-01	SS-6 (2-4)	SOIL	911 ATLANTIC AVE., BROOKLYN, NY	10/21/15 14:10	10/21/15

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1528078
Report Date: 11/05/15

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	911 ATLANTIC AAVE.	**Lab Number:**	L1528078
Project Number:	911 ATLANTIC AVE	**Report Date:**	11/05/15

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 11/05/15

ORGANICS

SEMIVOLATILES

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1528078
Project Number: 911 ATLANTIC AVE
Report Date: 11/05/15

SAMPLE RESULTS

Lab ID: L1528078-01
Client ID: SS-6 (2-4)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/05/15 02:50
Analyst: AS
Percent Solids: 92%

Date Collected: 10/21/15 14:10
Date Received: 10/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/02/15 17:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	1600		ug/kg	110	35.	1
Benzo(a)pyrene	1400		ug/kg	140	43.	1
Benzo(b)fluoranthene	1700		ug/kg	110	36.	1
Benzo(k)fluoranthene	740		ug/kg	110	34.	1
Chrysene	1700		ug/kg	110	35.	1
Dibenzo(a,h)anthracene	180		ug/kg	110	34.	1
Indeno(1,2,3-cd)pyrene	770		ug/kg	140	39.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	99		10-136
4-Terphenyl-d14	84		18-120

Project Name: 911 ATLANTIC AAVE. **Lab Number:** L1528078

Project Number: 911 ATLANTIC AVE **Report Date:** 11/05/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/04/15 19:19
Analyst: AS

Extraction Method: EPA 3546
Extraction Date: 11/02/15 17:52

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG836630-1					
Benzo(a)anthracene	ND		ug/kg	100	32.
Benzo(a)pyrene	ND		ug/kg	130	41.
Benzo(b)fluoranthene	ND		ug/kg	100	34.
Benzo(k)fluoranthene	ND		ug/kg	100	32.
Chrysene	ND		ug/kg	100	33.
Dibenzo(a,h)anthracene	ND		ug/kg	100	32.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	37.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	93		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1528078

Report Date: 11/05/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG836630-2 WG836630-3								
Acenaphthene	82		80		31-137	2		50
Benzidine	27		22		10-66	20		50
n-Nitrosodimethylamine	65		63		22-100	3		50
1,2,4-Trichlorobenzene	78		75		38-107	4		50
Hexachlorobenzene	84		84		40-140	0		50
Bis(2-chloroethyl)ether	74		72		40-140	3		50
2-Chloronaphthalene	83		79		40-140	5		50
1,2-Dichlorobenzene	69		67		40-140	3		50
1,3-Dichlorobenzene	68		65		40-140	5		50
1,4-Dichlorobenzene	67		65		28-104	3		50
3,3'-Dichlorobenzidine	85		68		40-140	22		50
2,4-Dinitrotoluene	89		**91**	Q	28-89	2		50
2,6-Dinitrotoluene	88		89		40-140	1		50
Fluoranthene	90		88		40-140	2		50
4-Chlorophenyl phenyl ether	84		83		40-140	1		50
4-Bromophenyl phenyl ether	88		88		40-140	0		50
Azobenzene	83		82		40-140	1		50
Bis(2-chloroisopropyl)ether	74		71		40-140	4		50
Bis(2-chloroethoxy)methane	84		78		40-117	7		50
Hexachlorobutadiene	76		72		40-140	5		50
Hexachlorocyclopentadiene	56		77		40-140	32		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1528078
Report Date: 11/05/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG836630-2 WG836630-3								
Hexachloroethane	67		64		40-140	5		50
Isophorone	85		79		40-140	7		50
Naphthalene	77		74		40-140	4		50
Nitrobenzene	77		72		40-140	7		50
NitrosoDiPhenylAmine(NDPA)/DPA	86		87		36-157	1		50
n-Nitrosodi-n-propylamine	83		78		32-121	6		50
Bis(2-Ethylhexyl)phthalate	91		98		40-140	7		50
Butyl benzyl phthalate	94		91		40-140	3		50
Di-n-butylphthalate	90		90		40-140	0		50
Di-n-octylphthalate	95		93		40-140	2		50
Diethyl phthalate	87		88		40-140	1		50
Dimethyl phthalate	87		87		40-140	0		50
Benzo(a)anthracene	86		88		40-140	2		50
Benzo(a)pyrene	89		88		40-140	1		50
Benzo(b)fluoranthene	86		87		40-140	1		50
Benzo(k)fluoranthene	90		88		40-140	2		50
Chrysene	90		90		40-140	0		50
Acenaphthylene	86		82		40-140	5		50
Anthracene	86		85		40-140	1		50
Benzo(ghi)perylene	90		90		40-140	0		50
Fluorene	85		85		40-140	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1528078

Report Date: 11/05/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG836630-2 WG836630-3								
Phenanthrene	85		86		40-140	1		50
Dibenzo(a,h)anthracene	91		89		40-140	2		50
Indeno(1,2,3-cd)Pyrene	92		91		40-140	1		50
Pyrene	85		87		35-142	2		50
Biphenyl	84		80		54-104	5		50
Aniline	64		55		40-140	15		50
4-Chloroaniline	78		67		40-140	15		50
2-Nitroaniline	87		90		47-134	3		50
3-Nitroaniline	79		74		26-129	7		50
4-Nitroaniline	88		89		41-125	1		50
Dibenzofuran	83		82		40-140	1		50
2-Methylnaphthalene	79		75		40-140	5		50
1,2,4,5-Tetrachlorobenzene	79		77		40-117	3		50
Acetophenone	86		81		14-144	6		50
2,4,6-Trichlorophenol	94		91		30-130	3		50
P-Chloro-M-Cresol	94		92		26-103	2		50
2-Chlorophenol	83		81		25-102	2		50
2,4-Dichlorophenol	90		87		30-130	3		50
2,4-Dimethylphenol	85		82		30-130	4		50
2-Nitrophenol	85		79		30-130	7		50
4-Nitrophenol	98		100		11-114	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1528078

Report Date: 11/05/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG836630-2 WG836630-3								
2,4-Dinitrophenol	60		56		4-130	7		50
4,6-Dinitro-o-cresol	88		88		10-130	0		50
Pentachlorophenol	77		78		17-109	1		50
Phenol	84		79		26-90	6		50
2-Methylphenol	87		82		30-130.	6		50
3-Methylphenol/4-Methylphenol	89		83		30-130	7		50
2,4,5-Trichlorophenol	92		92		30-130	0		50
Benzoic Acid	18		16		10-66	12		50
Benzyl Alcohol	91		87		40-140	4		50
Carbazole	89		90		54-128	1		50
Benzaldehyde	76		77		40-140	1		50
Caprolactam	106		107		15-130	1		50
Atrazine	101		94		40-140	7		50
2,3,4,6-Tetrachlorophenol	86		88		40-140	2		50
Pyridine	45		43		10-93	5		50
Parathion, ethyl	109		102		40-140	7		50
1-Methylnaphthalene	86		78		26-130	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1528078

Report Date: 11/05/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG836630-2 WG836630-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	83		83		25-120
Phenol-d6	89		85		10-120
Nitrobenzene-d5	82		79		23-120
2-Fluorobiphenyl	86		83		30-120
2,4,6-Tribromophenol	94		97		10-136
4-Terphenyl-d14	94		91		18-120

METALS

Project Name: 911 ATLANTIC AAVE.
Lab Number: L1528078
Project Number: 911 ATLANTIC AVE
Report Date: 11/05/15

SAMPLE RESULTS

Lab ID: L1528078-01
Client ID: SS-6 (2-4)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil
Percent Solids: 92%

Date Collected: 10/21/15 14:10
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Lead, Total	260		mg/kg	2.2	0.09	1	10/31/15 11:00	11/03/15 18:46	EPA 3050B	1,6010C	JH
Mercury, Total	1.2		mg/kg	0.07	0.02	1	10/31/15 10:55	11/02/15 14:14	EPA 7471B	1,7471B	DB
Zinc, Total	90		mg/kg	2.2	0.30	1	10/31/15 11:00	11/03/15 18:46	EPA 3050B	1,6010C	JH

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE
Lab Number: L1528078
Report Date: 11/05/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG836117-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	10/31/15 10:55	11/02/15 11:44	1,7471B	DB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG836184-1										
Lead, Total	ND		mg/kg	2.0	0.08	1	10/31/15 11:00	11/03/15 17:30	1,6010C	JH
Zinc, Total	ND		mg/kg	2.0	0.28	1	10/31/15 11:00	11/03/15 17:30	1,6010C	JH

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AAVE.

Project Number: 911 ATLANTIC AVE

Lab Number: L1528078

Report Date: 11/05/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG836117-2 SRM Lot Number: D088-540								
Mercury, Total	96		-		72-128	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG836184-2 SRM Lot Number: D088-540								
Lead, Total	84		-		81-117	-		
Zinc, Total	88		-		82-118	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1528078
Report Date: 11/05/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG836117-4 QC Sample: L1528139-01 Client ID: MS Sample												
Mercury, Total	ND	0.342	0.31	91		-	-		80-120	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG836184-4 QC Sample: L1528101-03 Client ID: MS Sample												
Lead, Total	6.2	51.4	36	**58**	Q	-	-		75-125	-		20
Zinc, Total	68.	50.4	96	**56**	Q	-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1528078
Report Date: 11/05/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG836117-3 QC Sample: L1528139-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG836184-3 QC Sample: L1528101-03 Client ID: DUP Sample						
Lead, Total	6.2	6.4	mg/kg	3		20

INORGANICS
&
MISCELLANEOUS

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1528078
Report Date: 11/05/15

SAMPLE RESULTS

Lab ID: L1528078-01
Client ID: SS-6 (2-4)
Sample Location: 911 ATLANTIC AVE., BROOKLYN, N
Matrix: Soil

Date Collected: 10/21/15 14:10
Date Received: 10/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	10/30/15 20:56	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1528078
Report Date: 11/05/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG836064-1 QC Sample: L1527948-01 Client ID: DUP Sample						
Solids, Total	88.4	87.2	%	1		20

Project Name: 911 ATLANTIC AAVE.
Project Number: 911 ATLANTIC AVE

Lab Number: L1528078
Report Date: 11/05/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**

Cooler	
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1528078-01A	Glass 250ml/8oz unpreserved	B	N/A	4.9	Y	Absent	NYTCL-8270(14),TS(7),PB-TI(180),ZN-TI(180),HG-T(28)

*Values in parentheses indicate holding time in days

Project Name:	911 ATLANTIC AAVE.	**Lab Number:**	L1528078
Project Number:	911 ATLANTIC AVE	**Report Date:**	11/05/15

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers

Project Name:	911 ATLANTIC AAVE.	**Lab Number:**	L1528078
Project Number:	911 ATLANTIC AVE	**Report Date:**	11/05/15

Data Qualifiers

C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
J	- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
ND	- Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	911 ATLANTIC AAVE.	**Lab Number:**	L1528078
Project Number:	911 ATLANTIC AVE	**Report Date:**	11/05/15

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 8260C: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; Iodomethane (methyl iodide) (soil); Methyl methacrylate (soil); Azobenzene; Bromobenzene (aqueous).
EPA 8270D: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Serial No:11051515:37

L1528078 LT 10/30/15

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 10/21/15

ALPHA Job #: L1526897

Client Information

Client: Tenen Environmental
Address: 121 W 27th Street
NY, NY, 10001
Phone: 646-606-2332
Fax:
Email: MCARROLL@tenen-env.com

Project Information

Project Name: 911 Atlantic Ave
Project Location: 911 Atlantic Ave, Brooklyn, NY
Project # 911 Atlantic Ave
(Use Project name as Project #) [X]
Project Manager: Matt Carroll
ALPHAQuote #:

Turn-Around Time

Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables

[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Billing Information

[X] Same as Client Info
PO #

Regulatory Requirement

[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL.

NYTCL-8270, TS, Hg, Pb, Zn

ANALYSIS

TCL VOA + 10 Tentatives - EPA 8260C
NYSDEC 8270D SIM Low Level
TCL Pesticides EPA 8081B
TCL PCBs EPA 8082A
TAL Metals Total 6010C

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOA	8270D	Pesticides	PCBs	Metals			Sample Specific Comments
28078-11	SS-5 (2-4)	10/21/15	1305	S	CT	X	X	X	X	X			HOLD
12	SS-5 (4-6)	10/21/15	1300	S	CT	X	X	X	X	X			
13	SS-6 (0-2)		1400	S	CT	X	X	X	X	X			
-01 14	SS-6 (2-4)		1410	S	CT	X	X	X	X	X		X	HOLD
15	SS-6 (4-5)		1405	S	CT	X	X	X	X	X			
16	Field Blank		1105	W	CT	X	X	X	X	X			
17	TRIP BLANK	—	—	W	—	X							

(CT) (CT) (CT)

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A	A	A	A					
Preservative	A	A	A	A	A					

Relinquished By:	Date/Time	Received By:	Date/Time
	10/21/15 1445	10/21/15	10/21/15 1445
10/21/15	1820		10/21/15 1821
	10/21/15 2255	AAL	10/21/15 2255

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1529172
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 303 New York City, NY 10001
ATTN:	Matt Carroll
Phone:	(646) 606-2332
Project Name:	911 ATLANTIC AVENUE
Project Number:	911A
Report Date:	11/12/15

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 911 ATLANTIC AVENUE
Project Number: 911A

Lab Number: L1529172
Report Date: 11/12/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1529172-01	GW-2	WATER	BROOKLYN, NY	10/27/15 10:35	10/27/15

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1529172
Project Number: 911A **Report Date:** 11/12/15

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1529172
Project Number: 911A **Report Date:** 11/12/15

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L1529172-01: Due to the matrix of the sample (foam generation during purging/analysis), the laboratory used Anti-Foam solution in the sample. The analysis was performed utilizing a compromised vial, with the client's authorization.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 11/12/15

ORGANICS

VOLATILES

Project Name: 911 ATLANTIC AVENUE
Lab Number: L1529172
Project Number: 911A
Report Date: 11/12/15

SAMPLE RESULTS

Lab ID: L1529172-01 D
Client ID: GW-2
Sample Location: BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/10/15 20:58
Analyst: PD

Date Collected: 10/27/15 10:35
Date Received: 10/27/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	10	2.8	4
1,1-Dichloroethane	ND		ug/l	10	2.8	4
Chloroform	ND		ug/l	10	2.8	4
Carbon tetrachloride	ND		ug/l	2.0	0.54	4
1,2-Dichloropropane	ND		ug/l	4.0	0.53	4
Dibromochloromethane	ND		ug/l	2.0	0.60	4
1,1,2-Trichloroethane	ND		ug/l	6.0	2.0	4
Tetrachloroethene	ND		ug/l	2.0	0.72	4
Chlorobenzene	ND		ug/l	10	2.8	4
Trichlorofluoromethane	ND		ug/l	10	2.8	4
1,2-Dichloroethane	ND		ug/l	2.0	0.53	4
1,1,1-Trichloroethane	ND		ug/l	10	2.8	4
Bromodichloromethane	ND		ug/l	2.0	0.77	4
trans-1,3-Dichloropropene	ND		ug/l	2.0	0.66	4
cis-1,3-Dichloropropene	ND		ug/l	2.0	0.58	4
1,3-Dichloropropene, Total	ND		ug/l	2.0	0.58	4
1,1-Dichloropropene	ND		ug/l	10	2.8	4
Bromoform	ND		ug/l	8.0	2.6	4
1,1,2,2-Tetrachloroethane	ND		ug/l	2.0	0.58	4
Benzene	ND		ug/l	2.0	0.64	4
Toluene	ND		ug/l	10	2.8	4
Ethylbenzene	ND		ug/l	10	2.8	4
Chloromethane	ND		ug/l	10	2.8	4
Bromomethane	ND		ug/l	10	2.8	4
Vinyl chloride	ND		ug/l	4.0	0.28	4
Chloroethane	ND		ug/l	10	2.8	4
1,1-Dichloroethene	ND		ug/l	2.0	0.57	4
trans-1,2-Dichloroethene	ND		ug/l	10	2.8	4
Trichloroethene	ND		ug/l	2.0	0.70	4
1,2-Dichlorobenzene	ND		ug/l	10	2.8	4

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1529172

Project Number: 911A **Report Date:** 11/12/15

SAMPLE RESULTS

Lab ID: L1529172-01 D Date Collected: 10/27/15 10:35

Client ID: GW-2 Date Received: 10/27/15

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	10	2.8	4
1,4-Dichlorobenzene	ND		ug/l	10	2.8	4
Methyl tert butyl ether	ND		ug/l	10	2.8	4
p/m-Xylene	ND		ug/l	10	2.8	4
o-Xylene	ND		ug/l	10	2.8	4
Xylenes, Total	ND		ug/l	10	2.8	4
cis-1,2-Dichloroethene	ND		ug/l	10	2.8	4
1,2-Dichloroethene, Total	ND		ug/l	10	2.8	4
Dibromomethane	ND		ug/l	20	4.0	4
1,2,3-Trichloropropane	ND		ug/l	10	2.8	4
Acrylonitrile	ND		ug/l	20	6.0	4
Styrene	ND		ug/l	10	2.8	4
Dichlorodifluoromethane	ND		ug/l	20	4.0	4
Acetone	270		ug/l	20	5.8	4
Carbon disulfide	ND		ug/l	20	4.0	4
2-Butanone	51		ug/l	20	7.8	4
Vinyl acetate	ND		ug/l	20	4.0	4
4-Methyl-2-pentanone	ND		ug/l	20	4.0	4
2-Hexanone	ND		ug/l	20	4.0	4
Bromochloromethane	ND		ug/l	10	2.8	4
2,2-Dichloropropane	ND		ug/l	10	2.8	4
1,2-Dibromoethane	ND		ug/l	8.0	2.6	4
1,3-Dichloropropane	ND		ug/l	10	2.8	4
1,1,1,2-Tetrachloroethane	ND		ug/l	10	2.8	4
Bromobenzene	ND		ug/l	10	2.8	4
n-Butylbenzene	ND		ug/l	10	2.8	4
sec-Butylbenzene	ND		ug/l	10	2.8	4
tert-Butylbenzene	ND		ug/l	10	2.8	4
o-Chlorotoluene	ND		ug/l	10	2.8	4
p-Chlorotoluene	ND		ug/l	10	2.8	4
1,2-Dibromo-3-chloropropane	ND		ug/l	10	2.8	4
Hexachlorobutadiene	ND		ug/l	10	2.8	4
Isopropylbenzene	ND		ug/l	10	2.8	4
p-Isopropyltoluene	ND		ug/l	10	2.8	4
Naphthalene	3.0	J	ug/l	10	2.8	4
n-Propylbenzene	ND		ug/l	10	2.8	4
1,2,3-Trichlorobenzene	ND		ug/l	10	2.8	4
1,2,4-Trichlorobenzene	ND		ug/l	10	2.8	4
1,3,5-Trimethylbenzene	ND		ug/l	10	2.8	4

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1529172

Project Number: 911A **Report Date:** 11/12/15

SAMPLE RESULTS

Lab ID: L1529172-01 D Date Collected: 10/27/15 10:35

Client ID: GW-2 Date Received: 10/27/15

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	10	2.8	4
1,4-Dioxane	ND		ug/l	1000	160	4
p-Diethylbenzene	ND		ug/l	8.0	2.8	4
p-Ethyltoluene	ND		ug/l	8.0	2.8	4
1,2,4,5-Tetramethylbenzene	ND		ug/l	8.0	2.6	4
Ethyl ether	ND		ug/l	10	2.8	4
trans-1,4-Dichloro-2-butene	ND		ug/l	10	2.8	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	98		70-130

Project Name: 911 ATLANTIC AVENUE **Lab Number:** L1529172

Project Number: 911A **Report Date:** 11/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/10/15 12:43
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG839222-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 911 ATLANTIC AVENUE
Project Number: 911A
Lab Number: L1529172
Report Date: 11/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/10/15 12:43
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG839222-3					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 911 ATLANTIC AVENUE
Project Number: 911A
Lab Number: L1529172
Report Date: 11/12/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/10/15 12:43
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG839222-3					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	41.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	78		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVENUE

Project Number: 911A

Lab Number: L1529172

Report Date: 11/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG839222-1 WG839222-2								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	93		93		70-130	0		20
Chloroform	97		98		70-130	1		20
2-Chloroethylvinyl ether	**52**	Q	**52**	Q	70-130	0		20
Carbon tetrachloride	96		97		63-132	1		20
1,2-Dichloropropane	93		94		70-130	1		20
Dibromochloromethane	92		92		63-130	0		20
1,1,2-Trichloroethane	89		88		70-130	1		20
Tetrachloroethene	102		103		70-130	1		20
Chlorobenzene	96		98		75-130	2		20
Trichlorofluoromethane	84		85		62-150	1		20
1,2-Dichloroethane	80		80		70-130	0		20
1,1,1-Trichloroethane	96		95		67-130	1		20
Bromodichloromethane	93		94		67-130	1		20
trans-1,3-Dichloropropene	74		74		70-130	0		20
cis-1,3-Dichloropropene	82		83		70-130	1		20
1,1-Dichloropropene	97		97		70-130	0		20
Bromoform	81		81		54-136	0		20
1,1,2,2-Tetrachloroethane	84		84		67-130	0		20
Benzene	99		99		70-130	0		20
Toluene	96		96		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVENUE

Project Number: 911A

Lab Number: L1529172

Report Date: 11/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG839222-1 WG839222-2								
Ethylbenzene	97		99		70-130	2		20
Chloromethane	85		87		64-130	2		20
Bromomethane	89		88		39-139	1		20
Vinyl chloride	74		73		55-140	1		20
Chloroethane	78		78		55-138	0		20
1,1-Dichloroethene	97		96		61-145	1		20
trans-1,2-Dichloroethene	99		100		70-130	1		20
Trichloroethene	98		99		70-130	1		20
1,2-Dichlorobenzene	97		98		70-130	1		20
1,3-Dichlorobenzene	102		104		70-130	2		20
1,4-Dichlorobenzene	99		100		70-130	1		20
Methyl tert butyl ether	87		87		63-130	0		20
p/m-Xylene	104		106		70-130	2		20
o-Xylene	98		101		70-130	3		20
cis-1,2-Dichloroethene	102		103		70-130	1		20
Dibromomethane	88		88		70-130	0		20
1,2,3-Trichloropropane	80		79		64-130	1		20
Acrylonitrile	84		82		70-130	2		20
Isopropyl Ether	89		90		70-130	1		20
tert-Butyl Alcohol	80		76		70-130	5		20
Styrene	95		96		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911A

Lab Number: L1529172
Report Date: 11/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG839222-1 WG839222-2								
Dichlorodifluoromethane	88		89		36-147	1		20
Acetone	80		79		58-148	1		20
Carbon disulfide	92		93		51-130	1		20
2-Butanone	80		77		63-138	4		20
Vinyl acetate	86		85		70-130	1		20
4-Methyl-2-pentanone	67		65		59-130	3		20
2-Hexanone	63		62		57-130	2		20
Acrolein	64		63		40-160	2		20
Bromochloromethane	98		100		70-130	2		20
2,2-Dichloropropane	88		88		63-133	0		20
1,2-Dibromoethane	92		92		70-130	0		20
1,3-Dichloropropane	88		88		70-130	0		20
1,1,1,2-Tetrachloroethane	98		98		64-130	0		20
Bromobenzene	101		102		70-130	1		20
n-Butylbenzene	107		114		53-136	6		20
sec-Butylbenzene	114		122		70-130	7		20
tert-Butylbenzene	114		121		70-130	6		20
o-Chlorotoluene	101		104		70-130	3		20
p-Chlorotoluene	101		103		70-130	2		20
1,2-Dibromo-3-chloropropane	77		78		41-144	1		20
Hexachlorobutadiene	120		129		63-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 911 ATLANTIC AVENUE
Project Number: 911A

Lab Number: L1529172
Report Date: 11/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG839222-1 WG839222-2								
Isopropylbenzene	110		115		70-130	4		20
p-Isopropyltoluene	105		111		70-130	6		20
Naphthalene	**48**	Q	**49**	Q	70-130	2		20
n-Propylbenzene	105		110		69-130	5		20
1,2,3-Trichlorobenzene	**56**	Q	**58**	Q	70-130	4		20
1,2,4-Trichlorobenzene	78		79		70-130	1		20
1,3,5-Trimethylbenzene	108		113		64-130	5		20
1,2,4-Trimethylbenzene	100		104		70-130	4		20
Methyl Acetate	74		74		70-130	0		20
Ethyl Acetate	80		78		70-130	3		20
Cyclohexane	92		93		70-130	1		20
Ethyl-Tert-Butyl-Ether	79		79		70-130	0		20
Tertiary-Amyl Methyl Ether	79		79		66-130	0		20
1,4-Dioxane	97		97		56-162	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	94		96		70-130	2		20
p-Diethylbenzene	108		114		70-130	5		20
p-Ethyltoluene	110		114		70-130	4		20
1,2,4,5-Tetramethylbenzene	90		93		70-130	3		20
Ethyl ether	82		81		59-134	1		20
trans-1,4-Dichloro-2-butene	**52**	Q	**55**	Q	70-130	6		20
Iodomethane	120		125		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 911 ATLANTIC AVENUE

Project Number: 911A

Lab Number: L1529172

Report Date: 11/12/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG839222-1 WG839222-2								
Methyl cyclohexane	101		104		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	80		80		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	100		100		70-130

Project Name: 911 ATLANTIC AVENUE
Project Number: 911A

Lab Number: L1529172
Report Date: 11/12/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1529172-01A	Vial HCl preserved	NA	NA		Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	911 ATLANTIC AVENUE	**Lab Number:**	L1529172
Project Number:	911A	**Report Date:**	11/12/15

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers

Project Name:	911 ATLANTIC AVENUE	**Lab Number:**	L1529172
Project Number:	911A	**Report Date:**	11/12/15

Data Qualifiers

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	911 ATLANTIC AVENUE	**Lab Number:**	L1529172
Project Number:	911A	**Report Date:**	11/12/15

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 8260C: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; Iodomethane (methyl iodide) (soil); Methyl methacrylate (soil); Azobenzene.
EPA 8270D: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 10/27/15

ALPHA Job #: L1529172

Client Information

Client: Tenen
Address:
Phone:
Fax:
Email: mcarroll@tenen-env.com

Project Information

Project Name: 911 Atlantic Avenue
Project Location: Brooklyn, NY
Project # 911A
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☒ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☒ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☒ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☒ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs	Pesticides	PCBs	TAL metals unfilt.	TAL metals filt.			Total Bottle
27452 71	gw-2	10/27/15	1035	GW	MC	X	→				→			9
72	Trip Blank	"	—	—	—	X								3

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	✓	A	A	A	P	P			
Preservative	B	A	A	A	A	C			

Relinquished By:	Date/Time	Received By:	Date/Time
	10/27 1300		10-27-15 1300
	10-27-15 1840	Tom Tobin	10-27-15 1840
Tom Tobin	10/27/15 2315		10/27/15 2315

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)