

**491 EAST 165TH STREET &
1052 WASHINGTON AVENUE
BOROUGH OF BRONX, NEW YORK**

Remedial Investigation Report

NYC VCP Site Number: 14CVCP195X

NYC OER Site Number: 13HAZ129X

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REMEDIAL INVESTIGATION REPORT

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LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Paul H. Ciminello, 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 Site name Site, (NYC VCP Site No. site number). 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.

Paul H. Ciminello

3/25/14



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 491 East 165th Street and 1052 Washington Avenue in the Morrisania section in the Bronx, New York and is identified as Block 2370 and Lots 52 and 6, respectively, on the New York City Tax Map. The parcels are perpendicular to each other, with Lot 52 (extending north from 165th Street) adjoining the central portion of Lot 6 (extending east from Washington Avenue) to the south, thereby forming the T-shaped Site. Figure 1 shows the Site location. The Site is 10,319-square feet and is bounded by a two-story commercial structure to the north, 165th Street to the south, an 8-story multi-family residential structure to the east, and 2-story mixed commercial/institutional/residential structures and Washington Avenue to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is used for parking and the storage of two trailers. No structures are located on the Site.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of a 10-story residential structure (no other usage of the Site is proposed). Layout of the proposed site development is presented in Figure 3 and Site development plans are presented in Figure 8. The current zoning designation is M1-1 with R7-2 residential overlay and a special mixed use district designation MX-7 (mixed commercial/residential). The proposed use is consistent with existing zoning for the property.

The Site is privately owned, measures approximately 10,319 square feet in area, and currently consists of vacant paved land partially utilized for parking. No structures are present on the Site. The proposed project would consist of 40,645 gross square feet within an approximately 105-foot tall 10-story building containing 58 residential units. The building would be located entirely on Lot 52 and consists of approximately 4,126 square feet; remaining portions of the Site (primarily north of the proposed structure on Lot 6) would consist of

approximately 6,193 square feet of landscaped yards, recreational space, and/or paved parking areas.

An approximately 4,126 square foot subgrade-level cellar would cover the entire building footprint. The cellar would consist of the base level of the Site, extend approximately 13 feet below surface grade (bsg) to the base of the slab foundation (approximately 11 feet bsg to top of slab foundation), and consist of service, maintenance, and storage rooms along with exercise and laundry facilities and the superintendent's office. No residential usage is proposed within the cellar. The first floor (ground level) would consist of two residential units, offices, and common areas. All areas of remaining levels (2-10) would consist of apartment units.

It is estimated that the maximum depth of excavation would be 19 feet bsg within the area of the proposed elevator shaft (extending approximately 6 feet below the slab level). Excavation within the cellar will extend approximately 13 feet bsg (to base of slab foundation), and excavation within the sub-grade courtyard directly north of the western portion of the structure will be 6 feet bsg. Remaining outdoor areas will be excavated to 2 feet bsg in unpaved areas and 1 foot bsg in paved (asphalt, concrete, and synthetic turf) areas. It is anticipated that a total of approximately 2,400 cubic yards of soil would be excavated during Site development. Excavation below groundwater elevation (measured at 18 feet bsg across the Site) will be limited to the area of the subgrade elevator shaft (approximately 800 square-foot excavation area with a depth of approximately 19 feet bsg).

Summary of Past Uses of Site and Areas of Concern

The project site currently consists of vacant paved land utilized for parking. No structures are located on the project site. Sanborn Fire Insurance maps indicate that Lot 6 of the project site contained a 3-story store/dwelling structure and a one-story garage from at least 1891 to 2001 and a one-story garage from 2002 to at least 2007 and that Lot 52 contained a three-story dwelling from sometime prior to 1891 to sometime prior to 1951, a six-story dwelling from sometime prior to 1951 to sometime prior to 1989, and vacant land from sometime prior to 1989 to at least 2007. According to Building Department records, Lot 52 was utilized as a parking lot, for automobile repairs, and for the storage of vehicles. No regulated activities (e.g. tank registration, waste generation, or petroleum spills) are reported in available databases as having

occurred on the project site. Based on a review of the Phase I ESA prepared for the Site in August 2012, the AOCs identified for this site include:

1. Petroleum spills and staining at surface areas on the project site; and,
2. Historical fill material identified to approximately 5 feet bgs.

Summary of the Work Performed under the Remedial Investigation

AEAS, on behalf of PSCH, Inc. performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed eight soil borings across the entire project Site, and collected fifteen soil samples (eight “surface” samples from the 0-2 foot bsg interval and seven “subsurface” samples from the 15-16 or 17-19 foot bsg interval, depending on the vertical soil profile) for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three temporary groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples for chemical analysis to evaluate groundwater quality; and,
4. Installed four soil vapor probes around Site perimeter and collected four samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property is approximately 29 feet above mean sea level.
2. Depth to groundwater is 18 feet at the Site.
3. Groundwater flow is generally from northeast to southwest beneath the Site.
4. Bedrock was not encountered during the RI, and is therefore present at depths greater than 20 feet at the Site.
5. The stratigraphy of the site, from the surface down, consists of grey/black/brown silty-sand containing rocks, organic material, and/or fill material (bricks, concrete,

asphalt, etc.) from surface grade to approximately 5 feet bsg overlying brown, fine-grained silty-sand with rock inclusions to maximum depths of 16 to 20 feet bsg.

6. The results of soil/fill samples collected during the RI were compared to the New York State Department of Environmental Conservation (NYS DEC) 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Use SCOs (RRSCOs). Soil/fill samples detected no VOCs or PCBs in any sample. Eight SVOCs, including benzo(a)anthracene (max. of 6,100 ppb), benzo(a)pyrene (max. of 6,300 ppb), benzo(b)fluoranthene (max. of 10,000 ppb), benzo(k)fluoranthene (max. of 2,500 ppb), chrysene (max. of 7,000 ppb), dibenzo(a,h)anthracene (max. of 900 ppb), indeno(1,2,3-cd)pyrene (max. of 3,100 ppb), and 2-methylnaphthalene (max. of 1,100 ppb) exceeded RRSCOs in seven of the ten shallow samples. One SVOC, bis(2-ethylhexyl)phthalate, was detected in a deeper sample at a concentration below the UUSCO. Four pesticides, including 4,4'-DDD (83 ppb), 4,4'-DDT (max. of 120 ppb), chlordane (max. of 200 ppb), and dieldrin (max. of 27 ppb) were detected in four surface soil samples at concentrations exceeding UUSCOs but below RRSCOs. No pesticides were detected in deeper samples. Metals including barium (max. of 1,440 ppm), total chromium (max. of 47.8 ppm), copper (max. of 50.8 ppm), iron (max. of 20,700 ppm), lead (max. of 1,120 ppm), mercury (max. of 0.93 ppm), and zinc (max. of 777 ppm) exceeded UUSCOs. Of these, barium, total chromium, iron, lead, and mercury exceeded RRSCOs. Only copper and total chromium exceeded RRSCOs in the deep samples. Overall, soil quality indicates poor quality urban fill and would require management as a regulated material.
7. The groundwater samples collected during the RI were compared to the guidance values presented in the NYS DEC Division of Water TOGS 1.1.1, Groundwater Quality Standards (GQSs). No detectable concentrations of PCBs were found in any sample. Three VOCs, including chloroform (max. of 33 µg/L), PCE (max. of 4.2 µg/L), and TCE (1.2 µg/L) were detected. Of these, only chloroform exceeded GQSs in two samples. Eleven SVOCs were detected within two samples, five of which exceed respective GQSs. These compounds include benzo(a)anthracene

(max. of 0.59 µg/L), benzo(b)fluoranthene (0.64 µg/L), benzo(k)fluoranthene (0.23 µg/L), chrysene (0.62 µg/L), and indeno(1,2,3-cd)pyrene (0.25 µg/L). Five pesticides were detected in one sample, three of which exceed respective GQSs. These compounds include 4,4'-DDT (0.74 µg/L), chlordane (0.36 µg/L), and dieldrin (0.057 µg/L). Only one metal, sodium, was detected in filtered groundwater samples at concentrations exceeding GQS (max. of 56.5 ppm). Eight metals were detected in unfiltered groundwater samples at concentrations exceeding GQSs. These include cobalt (max of: 0.033 ppm), iron (max of: 62.5 ppm), lead (max of: 0.141 ppm), sodium (max of: 56.5 ppm), and vanadium (max of: 0.076 ppm), barium (1.03 ppm), chromium (max of: 0.655 ppm) and magnesium (max of: 104 ppm).

8. The soil vapor results collected during the RI were compared to the compounds listed in the Table 3.1 Guideline Values Derived by the New York State Department of Health (NYS DOH) located in the Final Guidance for Evaluating Soil Vapor Intrusion. The chemical analysis of soil vapor samples collected during the RI showed elevated levels of both petroleum-related compounds and chlorinated VOCs. Total concentrations of petroleum-related VOCs (BTEX compounds) ranged from 796.4 µg/m³ to 1,050.8 µg/m³. Most VOCs were detected at concentrations less than 100 µg/m³ except for acetone (max. of 902 µg/m³), chloroform (max. of 771 µg/m³), hexachlorobutadiene (max. of 116 µg/m³), m,p-xylene (max. of 260 µg/m³), PCE (max. of 114 µg/m³), and toluene (max. of 614 µg/m³). Chlorinated VOCs, including PCE and TCE (max. of 4.24 µg/m³) were detected in all sample locations, and carbon tetrachloride (0.377 µg/m³) was detected in only one location. The levels of PCE are marginally above the guideline value and are within the monitoring level range recommended in the NYS DOH Final Guidance on soil vapor intrusion guidance matrices; all other chlorinated VOC concentrations are below monitoring level ranges.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Ecosystems Strategies, Inc. (ESI), on behalf of PSCH, Inc. has prepared this Remedial Investigation Report (RIR) based on a Phase II Subsurface Investigation Report (SIR) dated November 2012 performed to satisfy the E-Designation for hazardous materials at a 0.24-acre site located at 491 East 165th Street and 1052 Washington Avenue in the Morrisania section of the Bronx, New York. Residential use is proposed for the property. The RI work was performed on October 15, 2012. 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 491 East 165th Street and 1052 Washington Avenue in the Morrisania section in the Bronx, New York and is identified as Block 2370 and Lots 52 and 6, respectively, on the New York City Tax Map. The parcels are perpendicular to each other, with Lot 52 (extending north from 165th Street) adjoining the central portion of Lot 6 (extending east from Washington Avenue) to the south, thereby forming the T-shaped Site. Figure 1 shows the Site location. The Site is 10,319-square feet and is bounded by a two-story commercial structure to the north, 165th Street to the south, an 8-story multi-family residential structure to the east, and 2-story mixed commercial/institutional/residential structures and Washington Avenue to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is used for parking and the storage of two trailers. No structures are located on the Site.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of a 10-story residential structure (no other usage of the Site is proposed). Layout of the proposed site development is presented in Figure 3 and Site development plans are presented in Figure 8. The current zoning designation is M1-1 with R7-2 residential overlay and a special mixed use district designation MX-7 (mixed commercial/residential). The proposed use is consistent with existing zoning for the property.

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1.3 Description of Surrounding Property

The project Site is located in the Morrisania section of the Bronx. Adjoining properties consist of commercial usage to the north, commercial/institutional (church) usage to the west, vacant/institutional (church) usage to the south, and residential usage to the east. Zoning

designations for the surrounding area are M1-1 (manufacturing)/R7-2 (multi-family residential) and are within a special mixed use district designation MX-7 (mixed commercial/residential). The surrounding area consists primarily of commercial and multi-family residential structures. No sensitive receptors are located within a 500-foot radius of the project site. Figure 2 shows the surrounding land usage.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

The project site currently consists of vacant paved land utilized for parking. No structures are located on the project site. Sanborn Fire Insurance maps indicate that Lot 6 of the project site contained a 3-story store/dwelling structure and a one-story garage from at least 1891 to 2001 and a one-story garage from 2002 to at least 2007 and that Lot 52 contained a three-story dwelling from sometime prior to 1891 to sometime prior to 1951, a six-story dwelling from sometime prior to 1951 to sometime prior to 1989, and vacant land from sometime prior to 1989 to at least 2007. According to Building Department records, Lot 52 was utilized as a parking lot, for automobile repairs, and for the storage of vehicles. No regulated activities (e.g. tank registration, waste generation, or petroleum spills) are reported in available databases as having occurred on the project site.

Property ownership information, based on information provided by local records and a previous Phase I Environmental Site Assessment (see 2.2, below), is presented in the table below.

Parcel ID	Owner	Date of Conveyance
Lot 6 (1052 Washington Ave)	PSCH, Inc.	1/14/2013
	Villa Homes Second LLC	6/4/2010
	Mouctar Fofana	5/11/2007
Lot 52 (491 East 165 th St)	PSCH, Inc.	1/14/2013
	Villa Homes Second LLC	6/4/2010
	Mouctar Fofana	5/11/2007

2.2 Previous Investigations

A Phase I Environmental Site Assessment (ESA) was performed by American Environmental Assessment & Solutions, Inc. (AEAS) in August 2012 in accordance with the scope and limitations of ASTM Practice E 1527-05. This assessment revealed the following recognized environmental conditions in connection with the project site:

- Observations of petroleum spills and staining on the project site;
- Lot 52 of the project site is listed on the E-Designation database for hazardous materials (E-118); and,

- The historical usage of the project site for automobile repair services, parking, and storage of vehicles.

No previous environmental field investigations are known to have been performed on the project site.

2.3 Site Inspection

An initial inspection of the project site was performed by AEAS personnel prior to the initiation of fieldwork activities. No indications of hazardous materials were noted. A previous site inspection was performed during the Phase I ESA by AEAS in August 2012. During this inspection, the project site was observed to be vacant with the exception of a trailer and three 55-gallon drums (two containing debris and garbage and one with unknown contents) on Lot 52. Staining was observed on the ground surface on the central and western portions of Lot 6. No other indications of hazardous materials were observed.

2.4 Areas of Concern

Based on a review of the Phase I ESA prepared for the Site in August 2012, the AOCs identified for this site include:

1. Petroleum spills and staining at surface areas on the project site; and,
2. Presence of historic fill material to a depth of 5 feet below grade.

The Phase I ESA is presented in Appendix 1.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Paul H. Ciminello of Ecosystems Strategies, Inc. The project developer is PSCH, Inc.

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

AEAS, on behalf of PSCH, Inc. performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed eight soil borings across the entire project Site, and collected fifteen soil samples (eight “surface” samples from the 0-2 foot bsg interval and seven “subsurface” samples from the 15-16 or 17-19 foot bsg interval, depending on the vertical soil profile) for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three temporary groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples for chemical analysis to evaluate groundwater quality; and,
4. Installed four soil vapor probes around Site perimeter and collected four samples for chemical analysis.

According to the SIR, all activities were performed in accordance with a Phase II Subsurface Investigation Work Plan prepared by AEAS dated September 2012.

4.1 Geophysical Investigation

Prior to the initiation of the subsurface investigation activities, a geophysical survey was performed at the Site to determine the presence or absence of subsurface structures and to mark out on-site utilities in the vicinity of proposed drilling locations. AEAS performed the geophysical survey across the entire Site on October 13, 2012 using ground penetrating radar (GPR). AEAS reported that no anomalies were identified.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

A total of eight soil borings (SB-1 through SB-8) were extended throughout the Site under the supervision of AEAS personnel on October 15, 2012 at the following Site locations:

- Soil borings SB-1 (western portion), SB-2 (central portion), and SB-3 (eastern portion) on Lot 6; and,
- Soil borings SB-4 (northwestern portion), SB-5 (northeastern portion), SB-6 (eastern-central portion), SB-7 (southwestern portion), and SB-8 (southeastern portion) on Lot 52.

A Fieldwork Map indicating boring locations and the proposed development is provided as Figure 4.

Soil borings were extended using a 4-foot Macro Core sampler fitted with dedicated acetate liners (sampling 2-foot intervals). Soil characterization was performed by AEAS personnel during fieldwork activities. A photo-ionization detector (PID) was utilized by AEAS personnel to screen all encountered material for the presence of any volatile organic vapors where appropriate. The PID was calibrated to read parts per million calibration gas equivalents (ppm-ge) of isobutylene in accordance with protocols set forth by the equipment manufacturer. Soil screening was conducted at each boring location at two-foot intervals to a maximum depth of 20 feet bsg or until refusal was reached.

An assessment of subsurface soil characteristics, including soil type, the presence of foreign materials, field indications of contamination (e.g., unusual coloration patterns, or odors), and instrument indications of contamination (i.e., PID readings) was made by AEAS personnel during the extension of each soil boring. AEAS personnel maintained independent field logs documenting physical characteristics, PID readings, and any field indications of contamination for all encountered material at each boring location. Relevant information from logs for each boring location is summarized in the Appendix 3.

Subsurface soils encountered throughout the project site during the extension of soil borings generally consisted of grey/black/brown silty-sand containing rocks, organic material, and/or fill material (bricks, concrete, asphalt, etc.) from surface grade to approximately 5 feet bsg overlying brown, fine-grained silty-sand with rock inclusions to maximum depths of 16 to 20 feet bsg. Refusal was encountered in SB-1 (extended on the northwestern portion of the Site on the western side of Lot 6) at a depth of 6 feet bsg. No other refusal or bedrock was encountered during the extension of borings, and groundwater was encountered at 18 feet bsg at SB-2 through

SB-8. Field observations performed during the Site inspection indicate the potential presence of petroleum impacts to areas of Lot 52. Positive PID readings were detected at SB-6 in the 0-2 foot interval at 52.4 ppm (maximum reading), at SB-7 in the 0-2 foot interval at 5.9 ppm and the 17-19 foot interval at 10.1 ppm, and at SB-8 at the 0-2 foot interval at 24.6 ppm and the 17-19 foot interval at 2.1 ppm. The SIR reported no visual staining, sheen, or petroleum odors identified in any soil boring.

Due to the absence of visual or olfactory evidence of contamination, soil samples were collected at locations and depths in order to characterize Site soils in areas of proposed excavation as well as soils that would likely remain on-site post-excavation. Samples of soil material were collected from each of the soil borings where appropriate and notations were made regarding the sampled material's physical characteristics. A sufficient volume of material was collected at each sample location for the required analyses and for potential additional analyses. Soil samples were collected at various depths throughout the Site as per field observations, water table depths, and relative spatial separation (specific to each boring location).

Boring logs prepared by an AEAS geologist are attached in Appendix 2. A map showing the location of soil borings and monitor wells is shown in Figure 4.

Groundwater Monitoring Well Construction

Three soil borings (SB-3, SB-6, and SB-7) were converted to temporary wells (MW-2, MW-3, and MW-4, respectively) for groundwater sampling by inserting a 1-inch diameter PVC well screen and riser into the invert of each boring. Following sample collection, the boreholes were backfilled with soil cuttings and clean soil. The groundwater level was reported as 18 feet bsg at each well. Monitor well locations are shown in Figure 4.

Survey

A fieldwork map showing each of the on-site soil borings and monitoring wells is provided as Figure 4.

Water Level Measurement

The three temporary monitoring wells were gauged following installation. The groundwater level at each well was measured at 18 feet bsg. Water level data is included in Table 2.

4.3 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

Fifteen soil samples (SB-1 through SB-8) were collected for chemical analysis during this RI. One surface sample (0-2 foot bsg interval) was collected from all eight borings, and one subsurface sample (15-16 or 17-19 foot interval, depending on the vertical extent of soil) was collected from all borings with the exception of SB-1 (due to the presence of shallow refusal at 6 feet bsg). A total of eight surface samples and seven subsurface samples were submitted for analysis. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Table 3. Figure 4 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

All soil samples (as well as trip-blanks [40 mL vials of deionized water]) were placed in a cooler immediately after sample collection and were maintained at cold temperatures prior to transport to the laboratory. Samples were transported on the following day via courier to Phoenix Environmental Laboratories, Inc., a New York State Department of Health-certified laboratory (ELAP Certification Number 11301) for chemical analyses. Appropriate chain-of-custody procedures were followed.

Groundwater Sampling

Three groundwater samples (MW-2, MW-3, and MW-4) were collected for chemical analysis during this RI [note: MW-1 was proposed for SB-1 but was not completed due to the presence of shallow refusal at 6 feet bsg]. Low-flow sampling techniques were utilized to purge

the wells and obtain the groundwater samples. One representative groundwater sample was collected from each well utilizing a peristaltic pump and dedicated Teflon tubing and placed into laboratory supplied glassware. The sampling was conducted in accordance with NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, dated October 2010, and Sampling Guidelines and Protocols, dated March 1991. Groundwater sample collection data is reported in Table 4. Sampling logs with information on purging and sampling of groundwater monitor wells is included in Appendix 2. Figure 4 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

Four soil vapor probes were installed at selected locations within the footprint of the proposed new structure and four soil vapor samples (SV-1 through SV-4) were collected for chemical analysis during this RI. The soil vapor probes were installed by drilling a 2¼-inch hole to approximately 15 feet below grade using a Geoprobe. A vapor point comprised of a stainless steel screen was connected to ¼ -inch stainless steel tubing advanced into each hole. The tubing was then connected with a sample fitting to allow for the collection of soil gas. The annular space around the stainless steel screen was packed with coarse sand to six inches above the screen, creating a sampling zone. A bentonite seal was then placed above the sampling zone. Soil vapor sampling locations are shown in Figure 4. Soil vapor sample collection data is reported in Table5. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006*.

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 was directed by Antoinette Ollivierre, CEC, CEI of AEAS.
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and were Phoenix Environmental Laboratories, Inc.
Chemical Analytical Methods	<p>Soil analytical methods:</p> <ul style="list-style-type: none"> • 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); <p>Groundwater analytical methods:</p> <ul style="list-style-type: none"> • 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); <p>Soil vapor analytical methods:</p> <ul style="list-style-type: none"> • VOCs by TO-15 VOC parameters.

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Table numbers, respectively. All soil results were compared to 6 NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Part 375-6.8(b) Restricted Residential Soil Cleanup Objectives (RRSCO). The groundwater samples collected during the RI were compared to the guidance values presented in the NYS DEC Division of Water TOGS 1.1.1, Groundwater Quality Standards (GQSs). The soil vapor results collected during the RI were compared to the compounds listed in the Table 3.1 Guideline Values Derived by the New York State Department of Health (NYS DOH) located in the Final Guidance for Evaluating Soil Vapor Intrusion. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendices 4 through 6.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

A review of the Geologic Map of New York and the Surficial Geologic Map of New York (lower Hudson sheets) indicates that soils in the area of the project site are likely to consist of glacial till overlying Inwood Marble, which grades into underlying patchy Lowerre Quartzite (the maps indicate shallow bedrock, potentially within 1-3 meters of the surface). Soil maps presented in the New York City Reconnaissance Soil Survey (Soil Survey), issued by the New York City Soil and Water Conservation District, indicate that the pavement and buildings – Flatbush – Riverhead complex (0-8 percent slopes) soil series is located in the area of the project site. This soil series consists of nearly level to gently sloping urbanized areas of bedrock-controlled hills and ridges modified by glacial action that have been partially cut and filled with natural soil materials consisting of a mixture of moderately deep gneissic till soils and anthropogenic soils, with up to 80 percent impervious pavement and buildings covering the surface. [Note: The Soil Survey provides only a general guide to soil patterns across the city.]

Stratigraphy

Subsurface soils encountered throughout the project site during the extension of soil borings generally consisted of grey/black/brown silty-sand containing rocks, organic material, and/or fill material (bricks, concrete, asphalt, etc.) from surface grade to approximately 5 feet bsg overlying brown, fine-grained silty-sand with rock inclusions to maximum depths of 16 to 20 feet bsg. Refusal was encountered in SB-1 (extended on the northwestern portion of the Site on the western side of Lot 6) at a depth of 6 feet bsg. No other refusal or bedrock was encountered during the extension of borings, and groundwater was encountered at 18 feet bsg at SB-2 through SB-8.

Hydrogeology

A table of water level data for all monitor wells is included in Table 2. The average depth to groundwater is 18 feet bsg (the groundwater level was reported to be 18 feet bsg at all wells). Groundwater flow is presumed to be from the northeast to the southwest.

5.2 Soil Chemistry

No VOCs or PCBs were detected in soil samples collected during the RI. Eight SVOCs (including benzene compounds and chrysene) were detected in surface samples at concentrations above UUSCOs and RRSCOs. These SVOCs were mostly polycyclic aromatic hydrocarbon compounds (PAHs) and their concentrations and distribution indicate that they are associated with historic fill material observed in surface samples and potentially from historical petroleum impacts. With the exception of SB-5, every surface sample had concentrations of SVOCs exceeding RRSCOs. No SVOCs (with the exception of a very low level of bis(2-ethylhexyl)phthalate in SB-2 at 340 ppb) were detected in any subsurface sample.

Seven metals were detected in all surface samples at concentrations exceeding UUSCOs, and of those seven metals barium (peak concentration: 1,440 ppm), chromium (peak concentration: 47.8 ppm), iron (peak concentration: 19,100 ppm), lead (peak concentration: 1,120 ppm), and mercury (peak concentration: 0.93 ppm) were detected in multiple samples at concentrations exceeding RRSCOs. Every surface sample had concentrations of metals exceeding UUSCOs and RRSCOs.

Several pesticides (4,4'-DDD, 4,4'-DDT, chlordane, and dieldrin) were detected in surface samples from SB-1, SB-4, SB-5, and SB-8 at concentrations exceeding UUSCOs. No concentrations of pesticides were detected above RRSCOs or in any subsurface sample.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Table 3. Figure 5 shows the location and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 2 Soil Cleanup Objectives.

5.3 Groundwater Chemistry

Three VOCs were detected in groundwater samples (chloroform in GW-3 and GW-4, PCE in all samples, and TCE in GW-4); however, only chloroform was detected at a concentration exceeding regulatory criteria (peak concentration of 33 ppb; guidance level: 7 ppb). Chloroform is a common laboratory solvent and therefore the presence of this compound at elevated concentrations may not be indicative of an on-site condition.

Eleven SVOCs were detected in groundwater samples, five at concentrations exceeding regulatory criteria. The only SVOC detected in GW-2 was benzo(a)anthracene at an elevated

concentration. No SVOCs were detected in GW-4. The remaining detected and elevated SVOCs were present in GW-3 only and consist of PAH compounds. The total SVOCs detected for GW-3 was 7.51 ppb.

Five pesticides were detected in GW-3, three at concentrations exceeding regulatory criteria (4,4'-DDT at 0.74 ppb; chlordane at 0.36 ppb; and dieldrin at 0.057 ppb). No pesticides were detected in any other sample. No PCBs were detected in any groundwater samples.

Sodium was detected in all groundwater samples (filtered and unfiltered) at marginally elevated concentrations (peak concentration: 56.5 ppm). No other elevated concentrations of metals were detected in any filtered groundwater samples. Eight metals were detected in unfiltered groundwater samples at concentrations exceeding regulatory criteria. Elevated cobalt (peak concentration: 0.033 ppm), iron (peak concentration: 62.5 ppm), lead (peak concentration: 0.141 ppm), sodium (peak concentration: 56.5 ppm), and vanadium (peak concentration: 0.076 ppm) were detected in all three samples; elevated barium (1.03 ppm) was detected in GW-3; elevated chromium (peak concentration: 0.655 ppm) was detected in GW-2 and GW-4; and elevated magnesium (peak concentration: 104 ppm) was detected in GW-2 and GW-4.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Table 5. Exceedance of applicable groundwater standards are shown.

Figure 6 shows the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

5.4 Soil Vapor Chemistry

The chemical analysis of soil vapor samples collected during the RI showed elevated levels of both petroleum-related compounds and chlorinated VOCs. Total concentrations of petroleum-related VOCs (BTEX compounds) ranged from 796.4 $\mu\text{g}/\text{m}^3$ to 1,050.8 $\mu\text{g}/\text{m}^3$. Most VOCs were detected at concentrations less than 100 $\mu\text{g}/\text{m}^3$ except for acetone (max. of 902 $\mu\text{g}/\text{m}^3$), chloroform (max. of 771 $\mu\text{g}/\text{m}^3$), hexachlorobutadiene (max. of 116 $\mu\text{g}/\text{m}^3$), m,p-xylene (max. of 260 $\mu\text{g}/\text{m}^3$), PCE (max. of 114 $\mu\text{g}/\text{m}^3$), and toluene (max. of 614 $\mu\text{g}/\text{m}^3$). Chlorinated VOCs, including PCE and TCE (max. of 4.24 $\mu\text{g}/\text{m}^3$) were detected in all sample locations, and carbon tetrachloride (0.377 $\mu\text{g}/\text{m}^3$) was detected in only one location. The levels of PCE are marginally

above the guideline value and are within the monitoring level range recommended in the NYS DOH Final Guidance on soil vapor intrusion guidance matrices; all other chlorinated VOC concentrations are below monitoring level ranges. Detectable levels of VOCs in on-site soils may be related to on-site fill and/or historical commercial usage of the project site.

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 6. Figure 7 shows the location and posts the values for soil vapor samples with detected concentrations.

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

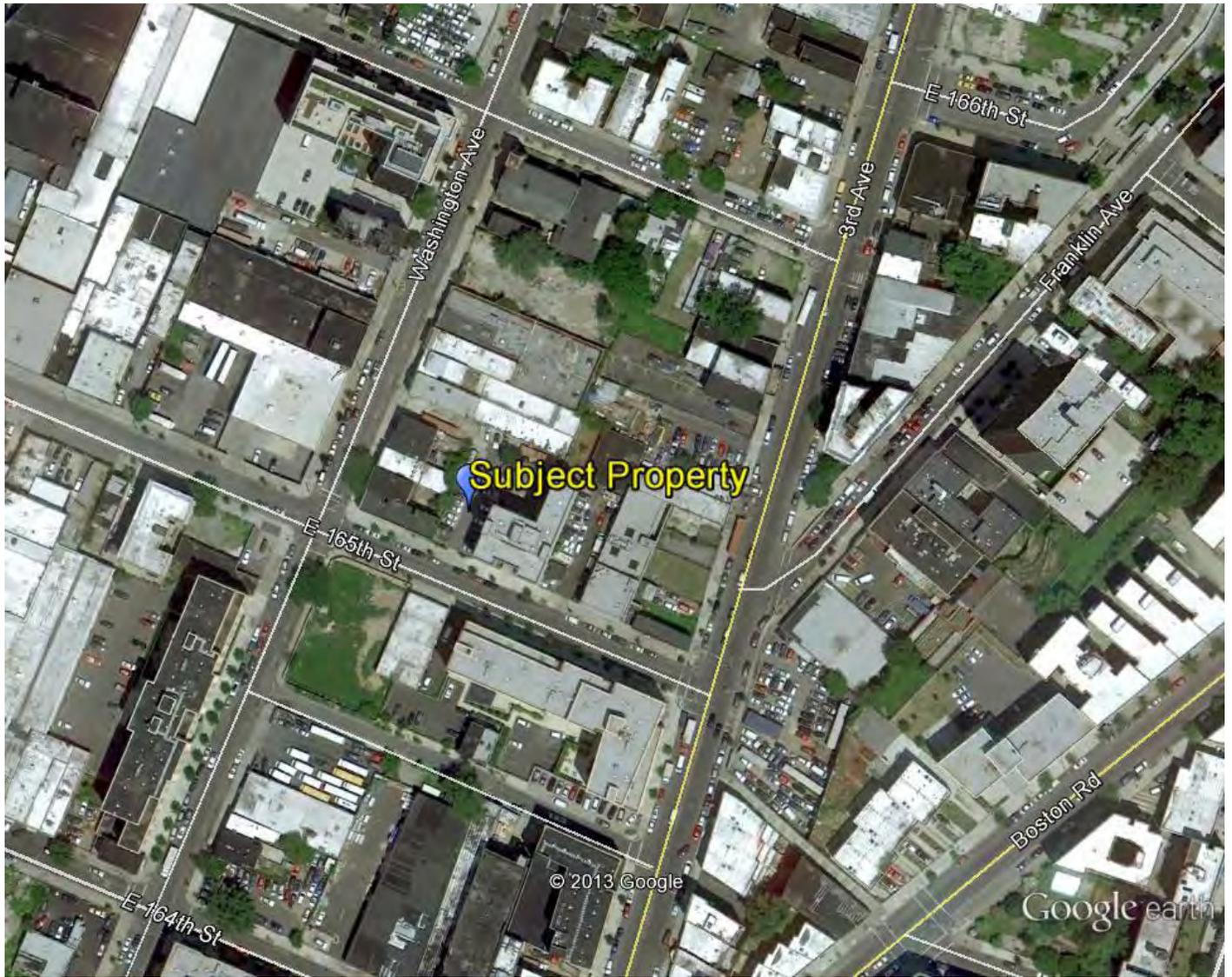


Figure 1: Site Location Map

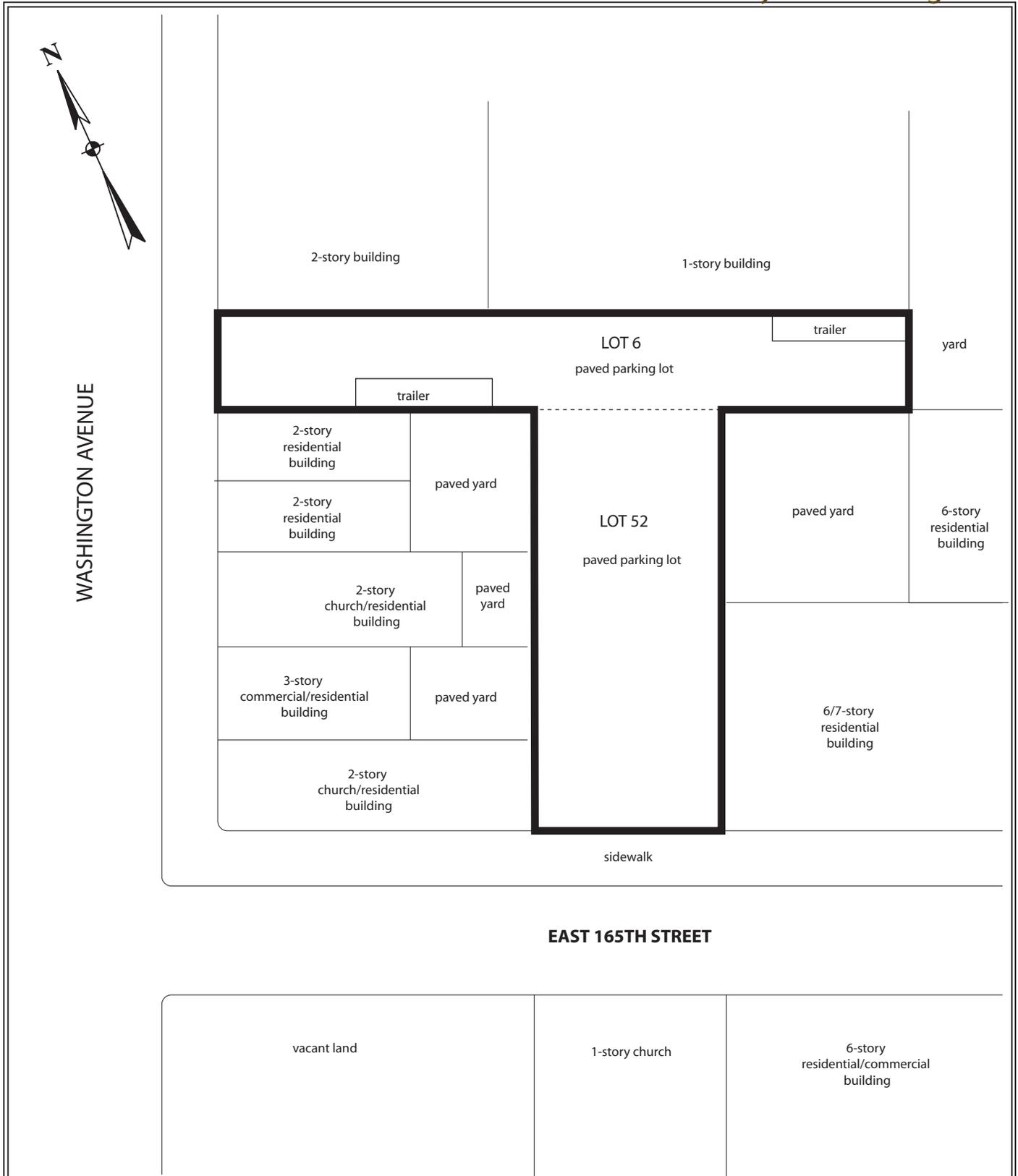
491 East 165th Street
1052 Washington Avenue
Borough Bronx, New York



ESI File: PB14017.40

March 2014

Figures



Based map based on survey by Urban Architectural Initiatives dated 1/20/14. All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

Figure 2: Selected Site Features Map

491 East 165th Street
 1052 Washington Avenue
 Borough of Bronx, New York

Legend:

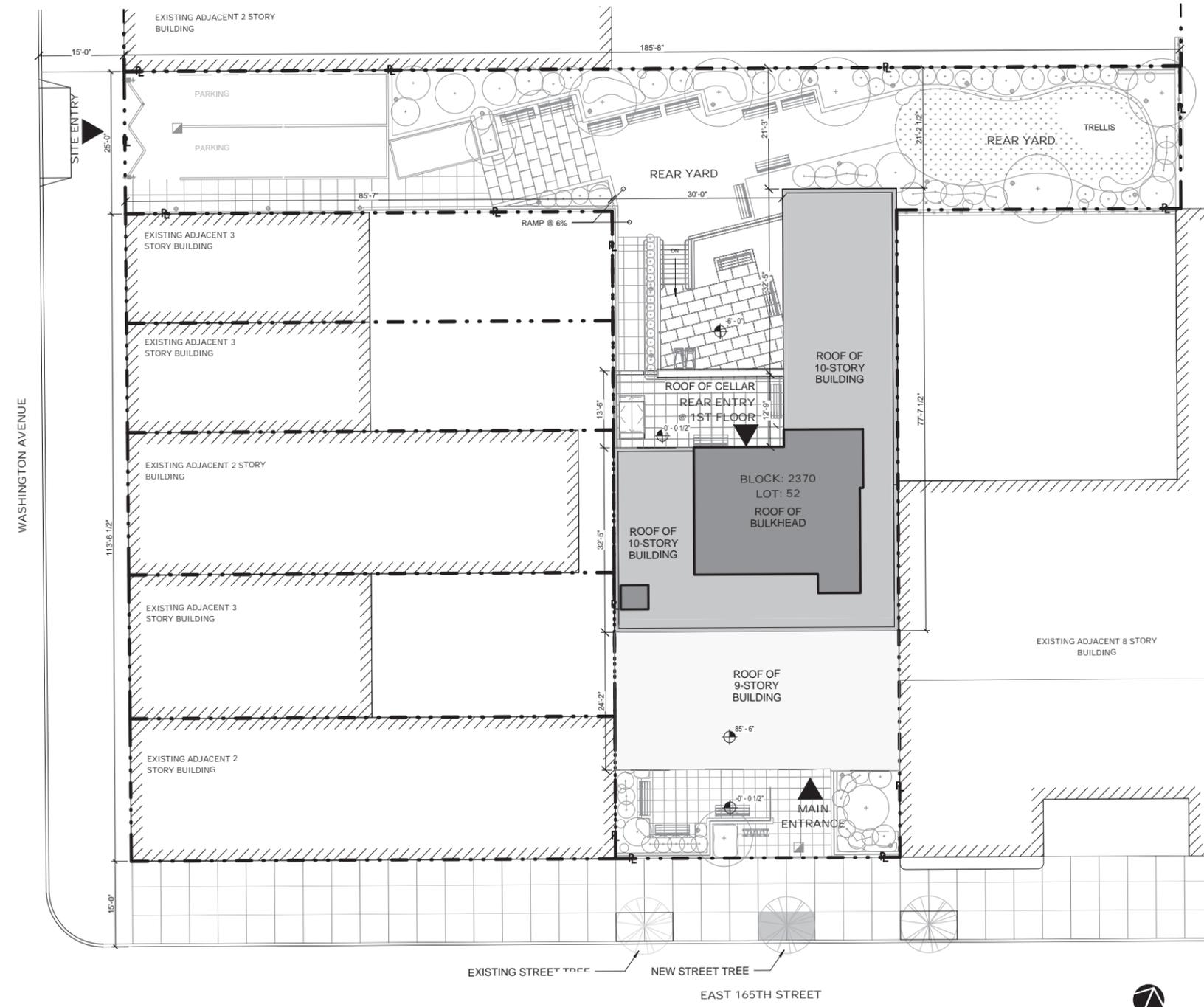
 subject property border

ESI File: PB14017.40

March 2014

Scale: 1" = 35' approximately

Figures



① SITE PLAN

Figure 3: Proposed Development Map

491 East 165th Street
 1052 Washington Avenue
 Borough of Bronx, New York

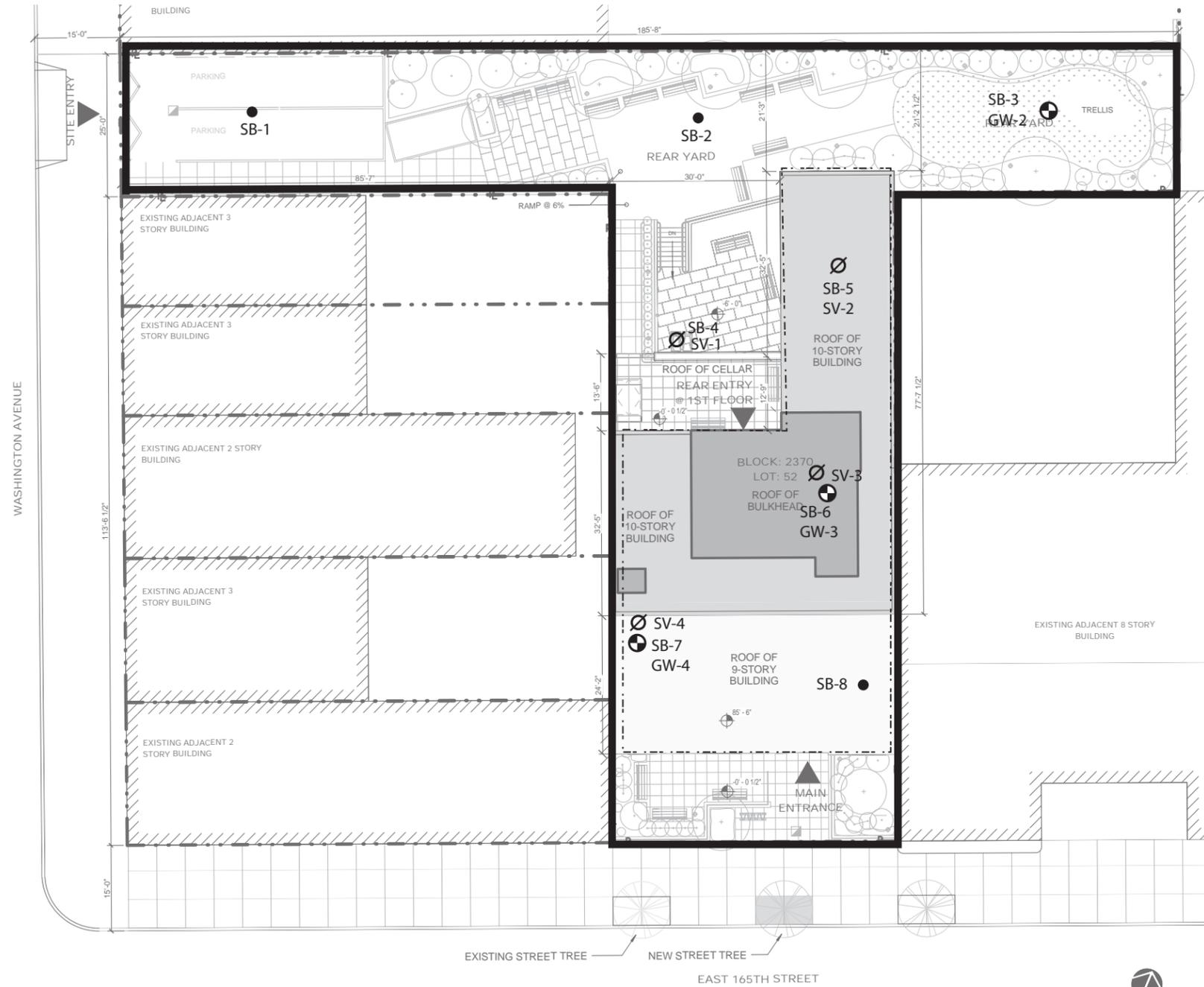
ESI File: PB14017.40

Scale: 1" = 25' (approximately)

March 2014

Figures

Based map based on Site Plan by Urban Architectural Initiatives dated 1/20/14. All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.



1 SITE PLAN

- Legend:**
- subject property border
 - monitoring well and soil sample location
 - sample location
 - SB = soil sample location
 - SV = soil gas location
 - GW = groundwater sample location

All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

Figure 4: Fieldwork Map

491 East 165th Street
1052 Washington Avenue
Borough of Bronx, New York

ESI File: PB14017.40

Scale: 1" = 25' (approximately)

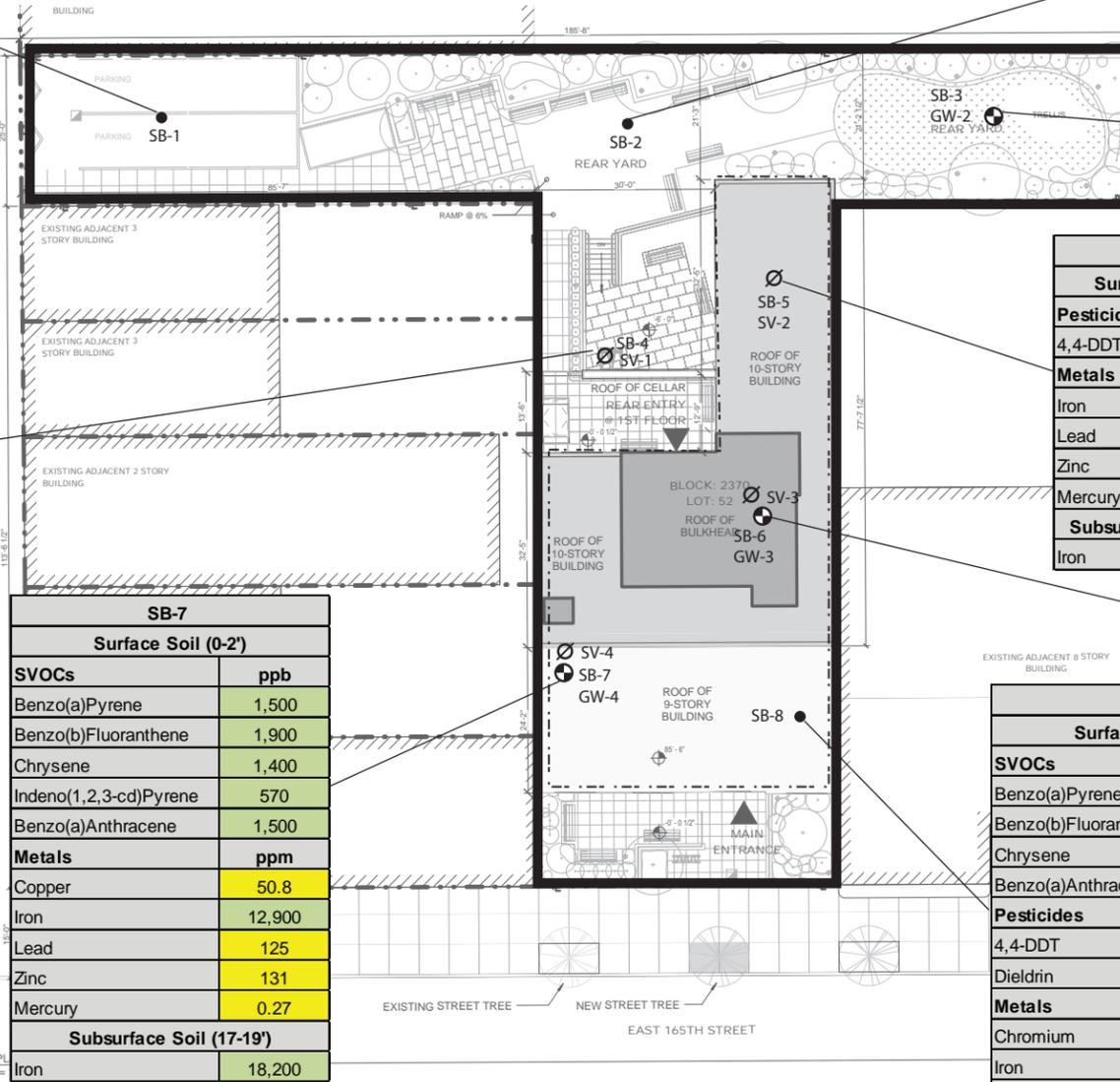
March 2014

Figures



SB-1	
Surface Soil (0-2')	
SVOCs	ppb
2-Methylnaphthalene	1,100
Pesticides	ppb
Dieldrin	15
Metals	ppm
Iron	13,400
Lead	349
Zinc	225
Mercury	0.23

SB-4	
Surface Soil (0-2')	
SVOCs	ppb
Benzo(a)Pyrene	6,300
Benzo(b)Fluoranthene	10,000
Benzo(K)Fluoranthene	2,500
Chrysene	7,000
Dibenzo(a,h)anthracene	900
Indeno(1,2,3-cd)Pyrene	3,100
Benzo(a)Anthracene	6,100
Pesticides	ppb
4,4-DDD	83
4,4-DDT	120
Chlordane	200
Dieldrin	27
Metals	ppm
Barium	1,440
Iron	9,040
Lead	384
Zinc	777
Mercury	0.25
Subsurface Soil (17-19')	
Iron	8,500



1 SITE PL 3/32" = 1"

SB-2	
Surface Soil (0-2')	
SVOCs	ppb
2-Methylnaphthalene	750
Metals	ppm
Barium	1,060
Iron	18,600
Lead	1,120
Zinc	566
Mercury	0.82
Subsurface Soil (15-16')	
Chromium	34
Iron	20,300

SB-3	
Surface Soil (0-2')	
SVOCs	ppb
Benzo(a)Pyrene	2,400
Benzo(b)Fluoranthene	4,100
Benzo(K)Fluoranthene	1,500
Chrysene	3,000
Indeno(1,2,3-cd)Pyrene	950
Benzo(a)Anthracene	2,600
Metals	ppm
Iron	19,100
Lead	308
Zinc	440
Mercury	0.93
Subsurface Soil (17-19')	
Iron	15,200

SB-5	
Surface Soil (0-2')	
Pesticides	ppb
4,4-DDT	38
Metals	ppm
Iron	15,600
Lead	120
Zinc	122
Mercury	0.38
Subsurface Soil (17-19')	
Iron	10,000

SB-6	
Surface Soil (0-2')	
SVOCs	ug/kg
Benzo(a)Pyrene	1,300
Benzo(b)Fluoranthene	1,900
Benzo(a)Anthracene	1,400
Metals	mg/kg
Iron	15,900
Lead	128
Subsurface Soil (17-19')	
Chromium	47.3
Iron	20,700

SB-8	
Surface Soil (0-2')	
SVOCs	ppb
Benzo(a)Pyrene	1,100
Benzo(b)Fluoranthene	1,700
Chrysene	1,600
Benzo(a)Anthracene	1,200
Pesticides	ppb
4,4-DDT	80
Dieldrin	16
Metals	ppm
Chromium	47.8
Iron	13,400
Lead	210
Subsurface Soil (17-19')	
Iron	10,700

SB-7	
Surface Soil (0-2')	
SVOCs	ppb
Benzo(a)Pyrene	1,500
Benzo(b)Fluoranthene	1,900
Chrysene	1,400
Indeno(1,2,3-cd)Pyrene	570
Benzo(a)Anthracene	1,500
Metals	ppm
Copper	50.8
Iron	12,900
Lead	125
Zinc	131
Mercury	0.27
Subsurface Soil (17-19')	
Iron	18,200

- Legend:
- subject property border
 - monitoring well and soil sample location
 - sample location
 - SB = soil sample location
 - SV = soil gas location
 - GW = groundwater sample location
 - Exceedance of Unrestricted Use SCOs
 - Exceedance of Restricted Use Residential SCOs

All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

Figure 5: Exceedances in Soil Map

491 East 165th Street
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Borough of Bronx, New York

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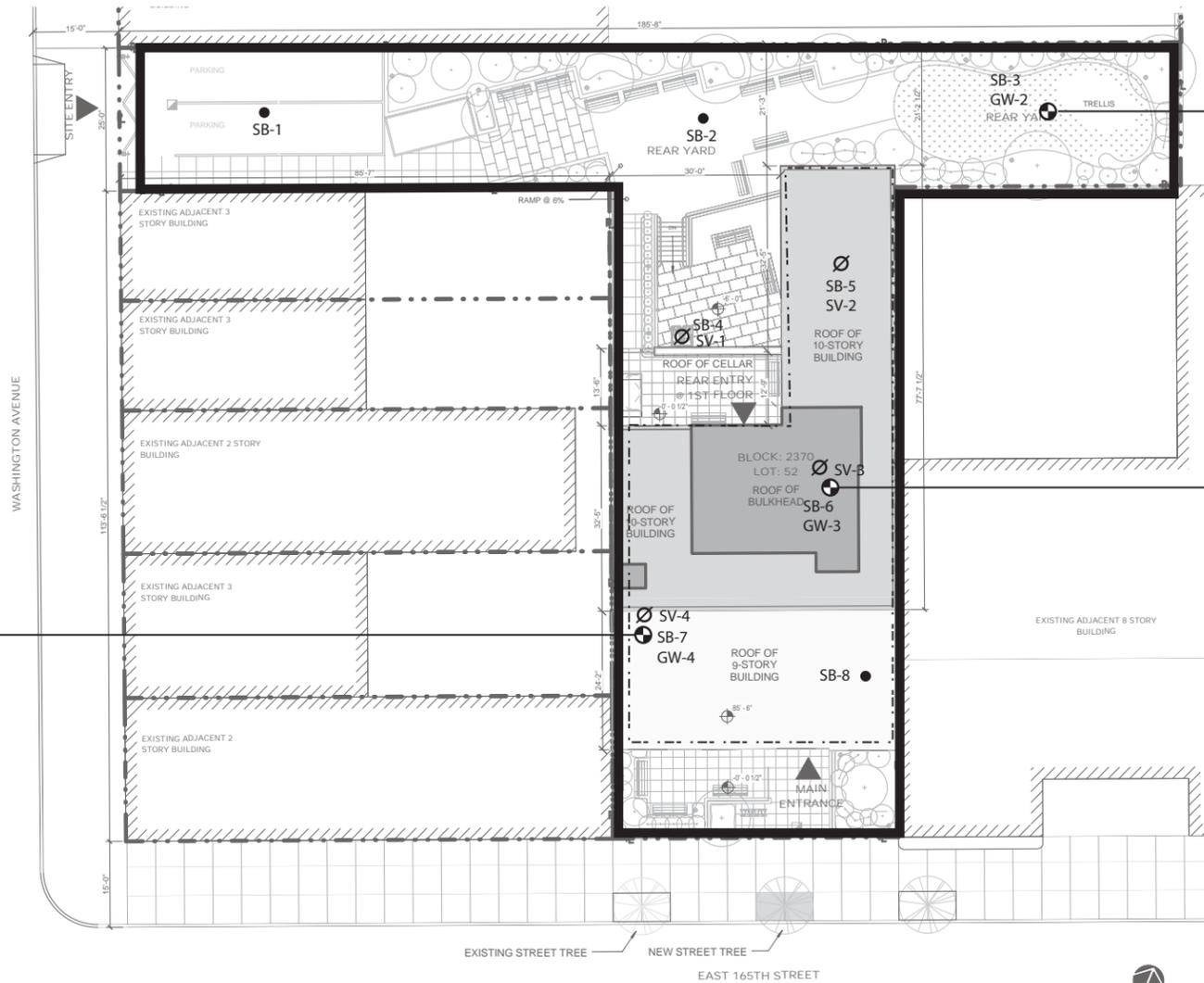
Scale: 1" = 30' (approximately)

March 2014

Figures



GW-4	
VOCs	ug/L
Chloroform	29
Total Metals	mg/L
Chromium	0.058
Cobalt	0.03
Iron	56.3
Lead	0.046
Magnesium	95.1
Sodium	95.1
Vanadium	0.068
Dissolved Metals	mg/L
Sodium	31.6



1 SITE PLAN
3/32" = 1'-0"

GW-2	
SVOCs	ug/L
Benzo(a)anthracene	0.04
Total Metals	mg/L
Chromium	0.065
Cobalt	0.033
Iron	62.5
Lead	0.042
Magnesium	104
Sodium	53.7
Vanadium	0.076
Dissolved Metals	mg/L
Sodium	33.7

GW-3	
VOCs	ug/L
Chloroform	33
SVOCs	ug/L
Benzo(a)anthracene	0.59
Benzo(b)fluoranthene	0.64
Benzo(k)fluoranthene	0.23
Chrysene	0.62
Indeno(1,2,3-cd)pyrene	0.25
Pesticides	ug/L
4,4'-DDT	0.74
Chlordane	0.36
Dieldrin	0.057
Total Metals	mg/L
Barium	103
Cobalt	0.017
Iron	27.6
Lead	0.141
Sodium	56.5
Vanadium	0.04
Dissolved Metals	mg/L
Sodium	45.5

- Legend:
- subject property border
 - monitoring well and soil sample location
 - sample location
 - SB = soil sample location
 - SV = soil gas location
 - GW = groundwater sample location
 - exceedance in Regulatory Criteria based on water quality standards and guidance values presented in NYSDEC Division of Water TOGS 1.1.1 (June 1998).

All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

Figure 6: Exceedances in Groundwater Map

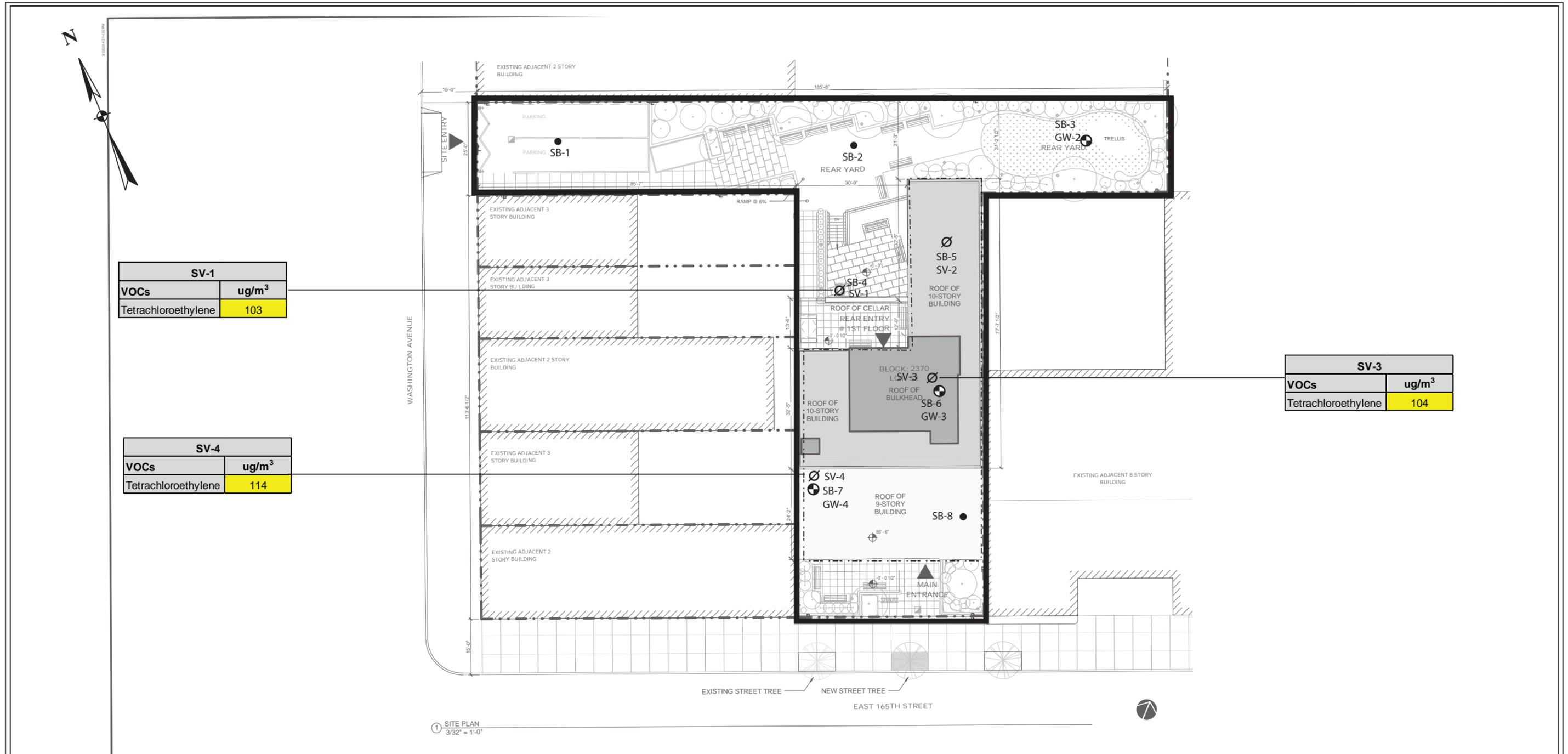
491 East 165th Street
1052 Washington Avenue
Borough of Bronx, New York

ESI File: PB14017.40

Scale: 1" = 30' (approximately)

March 2014

Figures



SV-1	
VOCs	ug/m ³
Tetrachloroethylene	103

SV-4	
VOCs	ug/m ³
Tetrachloroethylene	114

SV-3	
VOCs	ug/m ³
Tetrachloroethylene	104

1 SITE PLAN
3/32" = 1'-0"

NT
ST PAVING
TE PAVING

- Legend:**
- subject property border
 - monitoring well and soil sample location
 - sample location
 - SB = soil sample location
 - SV = soil gas location
 - GW = groundwater sample location
 - Exceedance of NYSDOH Indoor Air Guidelines

Figure 7: Exceedances in Soil Vapor Map

491 East 165th Street
1052 Washington Avenue
Borough of Bronx, New York

ESI File: PB14017.40

Scale: 1" = 30' (approximately)

March 2014

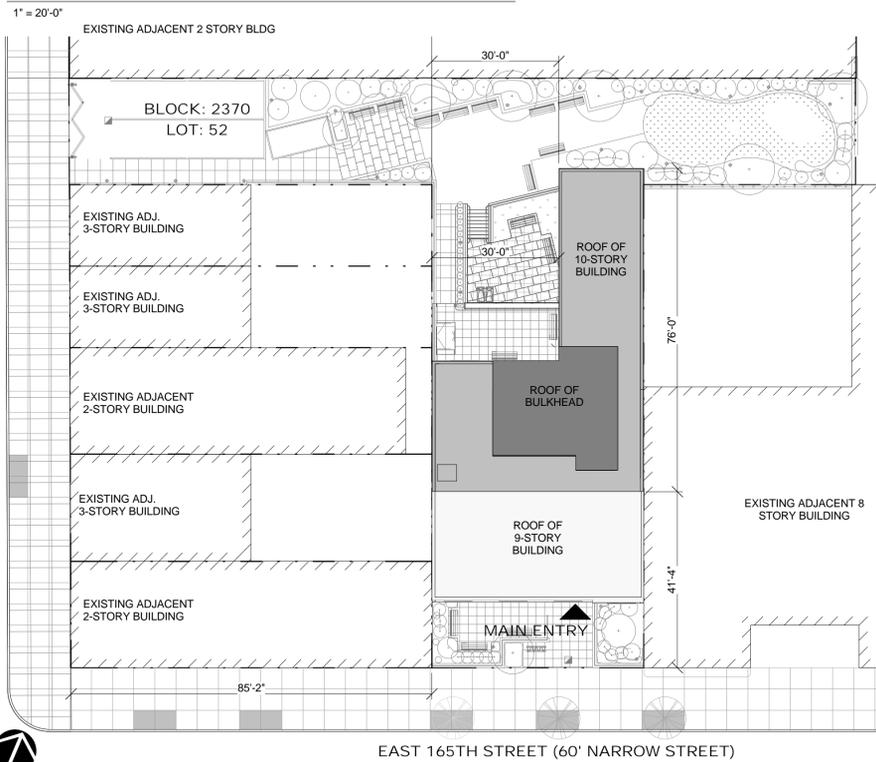
Figures

Based map based on Site Plan by Urban Architectural Initiatives dated 1/20/14. All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

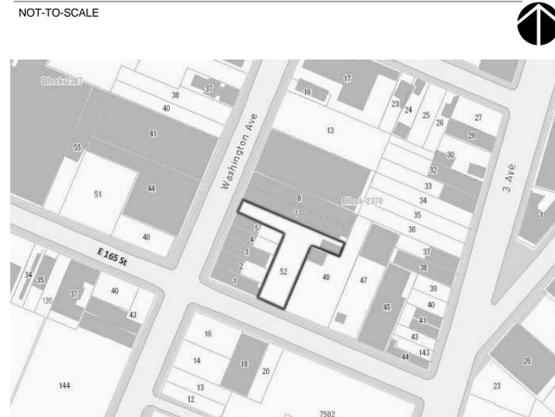


Figure 8
Site Development Plans

PLOT PLAN



LOCATION MAP



STRUCTURAL ENGINEER:

YSRAEL A. SEINUK, PC
228 E 45TH STREET
NEW YORK, NY 10017
Tel. (212) 687-2233
Principal:
Filing Engineer: Damian Monteiro, PE
Project Manager: Damian Monteiro, PE



M.E.P. ENGINEER:

EMTG CONSULTANTS INC
115 West 30th Street, Suite 202
New York, NY 10001
Tel. (212) 268-6465
Principal: Shahram Lotfi, PE
Mechanical: Howard Haber
PL / SP: Dustin Hickey
Electrical / FA: Marc Hershkowitz



CIVIL ENGINEER

MICHAEL WEIN, PC
135 Country Club Drive
Morris Township, NJ 08831
Tel. (732) 521-5939

LANDSCAPE ARCHITECT

LIZ FARRELL LANDSCAPE ARCHITECTURE, PLLC
523 6th Avenue
Brooklyn, NY 11215
Tel. (718) 778-7101
Principal: Liz Farrell



CODE CONSULTANT

Design 2147, LTD
52 Diamond Street
Brooklyn, NY 11222
Tel. (718) 393-9340
Principal: Domenick Schinco
Project Manager: Erik Castro



ESTIMATOR

Cham Estimating Service Inc.
1 Vanderwater Ct.
East Brunswick, NJ 08816
Tel. (732) 254-9182
Principal: David Cham

PROPOSED BUILDING FOR:

PSCH

491 EAST 165TH STREET
BRONX, NEW YORK 10456

OWNER:

PSCH, INC / CHRISTA
40 ELMONT ROAD, ELMONT, NY 11003



SPONSOR:

**NEW YORK STATE
OFFICE OF MENTAL HEALTH**
330 FIFTH AVENUE, 9th FLOOR, NEW YORK, NY 10001

ARCHITECT:

UAI URBAN ARCHITECTURAL INITIATIVES, RA, P.C.

233 Broadway, Suite 2150 New York, NY 10279
t. 212.979.1510 f. 212.979.1737 www.uai-ny.com

LIST OF DRAWINGS

SHEET #	ARCHITECTURAL	DOB
T-000.00	COVER	X
Z-100.00	ZONING & BUILDING CODE ANALYSIS	X
G-100.00	GENERAL NOTES & ADA COMPLIANCE	X
G-200.00	SURVEY	X
EN-000.00	ENERGY ANALYSIS I	X
B-100.00	BORING LOG	X
B-101.00	BORING LOG II	X
A-000.00	SITE PLAN	X
A-100.00	CELLAR PLAN	X
A-101.00	CELLAR RCP	X
A-110.00	FIRST FLOOR PLAN	X
A-111.00	FIRST FLOOR RCP	X
A-120.00	TYPICAL FLOORS (2ND & 3RD) PLAN	X
A-121.00	TYPICAL FLOORS (2ND & 3RD) RCP	X
A-130.00	FOURTH FLOOR PLAN	X
A-131.00	FOURTH FLOOR RCP	X
A-140.00	TYPICAL FLOORS (5TH & 9TH) PLAN	X
A-141.00	TYPICAL FLOORS (5TH & 9TH) RCP	X
A-150.00	TENTH FLOOR PLAN	X
A-151.00	TENTH FLOOR RCP	X
A-160.00	ROOF & BULKHEAD PLAN	X
A-161.00	BULKHEAD ROOF PLAN & BULKHEAD RCP	X
A-200.00	SOUTH & WEST ELEVATIONS	X
A-210.00	NORTH & EAST ELEVATIONS	X
A-300.00	BUILDING SECTION A-A	X
A-320.00	WALL SECTIONS & DETAILS	X
A-321.00	WALL SECTIONS & DETAILS	X
A-322.00	WALL SECTIONS & DETAILS	X
A-323.00	TYPICAL METAL PANEL WALL DETAILS	X
A-340.00	TYPICAL EIFS DETAILS	X
A-341.00	TYPICAL EIFS DETAILS II	X
A-342.00	TYPICAL ROOFING DETAILS	X
A-343.00	TYPICAL WATERPROOFING DETAILS	X
A-350.00	TYPICAL INTERIOR DETAILS	X
A-400.00	STAIR 'A' PLANS & SECTION & STAIR DETAILS	X
A-401.00	STAIR 'B' PLANS & SECTIONS	X
A-410.00	ELEVATOR SECTION & DETAILS	X
A-420.00	TRASH CHUTE SECTION & DETAILS	X
A-500.00	INTERIOR PARTITION SCHEDULE	X
A-510.00	EXTERIOR PARTITION SCHEDULE	X
A-620.00	DOOR SCHEDULE & DETAILS	X
A-621.00	DOOR DETAILS I	X
A-622.00	DOOR DETAILS II	X
A-630.00	FIXED/SLIDER WINDOW TYPES & DETAILS	X
A-631.00	FIRE-RATED WINDOW TYPES & DETAILS	X
A-632.00	STOREFRONT TYPES & DETAILS	X
A-600.00	PUBLIC TOILETS	X
A-610.00	UNIT BATHROOMS I	X
A-620.00	UNIT BATHROOMS II	X
A-630.00	UNIT KITCHENETTES I	X
A-631.00	UNIT KITCHENETTES II	X
A-640.00	SECURITY DESK DETAILS	X
A-850.00	LAUNDRY ROOM ELEVATIONS & DETAILS	X
A-860.00	INTERIOR ELEVATIONS	X
A-700.00	FINISH SCHEDULE	X

BUILDER'S PAVEMENT PLAN	
BP-100.00	BUILDER'S PAVEMENT PLAN I
BP-110.00	BUILDER'S PAVEMENT PLAN II

LANDSCAPING	
L-201.00	GRADING PLAN
L-202.00	LAYOUT, MATERIALS AND LIGHTING PLAN
L-203.00	LANDSCAPE AND IRRIGATION PLAN
L-301.00	SITE DETAILS 1
L-302.00	SITE DETAILS 2
L-303.00	SITE DETAILS 3

CIVIL	
C-000.00/SD1	SITE DRAINAGE PLAN
C-001.00	BELOW CELLAR DRAINAGE PLAN

STRUCTURAL	
FO-100	FOUNDATION & CELLAR FRAMING PLAN
FO-200.00	FOUNDATION TYPICAL DETAILS 1
FO-201.00	FOUNDATION TYPICAL DETAILS 2
S-001.00	GENERAL NOTES SHEET 1
S-002.00	GENERAL NOTES SHEET 2
S-101	FIRST FLOOR FRAMING PLAN
S-102	2ND FLOOR FRAMING PLAN
S-103	3RD-9TH FLOOR FRAMING PLAN
S-110	TENTH FLOOR FRAMING PLAN
S-111	MAIN ROOF FRAMING PLAN
S-112	BULKHEAD ROOF FRAMING PLAN
S-402.00	SHEARWALL TYPICAL DETAILS
S-500.00	COLUMN SCHEDULE
S-601.00	COLUMN DETAILS
S-600.00	SUPERSTRUCTURE TYPICAL DETAILS 1
S-601.00	SUPERSTRUCTURE TYPICAL DETAILS 2
S-602.00	SUPERSTRUCTURE TYPICAL DETAILS 3
S-603.00	SUPERSTRUCTURE TYPICAL DETAILS 4
S-604.00	SUPERSTRUCTURE TYPICAL DETAILS 5
S-801.00	TYPICAL STAIR DETAILS

ENERGY ANALYSIS	
EN-001.00	ENERGY ANALYSIS

HVAC	
M-001.00	CELLAR MECHANICAL PLAN
M-002.00	FIRST FLOOR MECHANICAL PLAN
M-003.00	2ND & 3RD FL MECHANICAL PLAN
M-004.00	FOURTH FLOOR MECHANICAL PLAN
M-005.00	TYPICAL FLOORS (5TH-8TH) MECHANICAL PLAN
M-006.00	9TH FLOOR MECHANICAL PLAN
M-007.00	TENTH FLOOR MECHANICAL PLAN
M-008.00	ROOF MECHANICAL PLANS
M-009.00	CELLAR MECHANICAL PIPING PLAN
M-010.00	FIRST FLOOR MECHANICAL PIPING PLAN
M-011.00	2ND & 3RD FL MECHANICAL PIPING PLAN
M-012.00	FOURTH FLOOR MECHANICAL PIPING PLAN
M-013.00	FIFTH FLOOR MECHANICAL PIPING PLAN
M-014.00	TYPICAL FLS (6TH-9TH) MECHANICAL PIPING PLAN
M-015.00	TENTH FLOOR MECHANICAL PIPING PLAN
M-016.00	MECHANICAL SCHEDULES
M-017.00	MECHANICAL AIR RISER DIAGRAMS
M-018.00	MECHANICAL DETAILS

PLUMBING	
P-000.00	PLUMBING SITE PLAN
P-001.00	BELOW CELLAR FLOOR PLUMBING PLAN
P-002.00	CELLAR FLOOR PLUMBING PLAN
P-003.00	FIRST FLOOR PLUMBING PLAN
P-004.00	SECOND FLOOR PLUMBING PLAN
P-005.00	THIRD FLOOR PLUMBING PLAN
P-006.00	FOURTH FLOOR PLUMBING PLAN
P-007.00	FIFTH FLOOR PLUMBING PLAN
P-008.00	SIXTH THROUGH EIGHTH FLOOR PLUMBING PLAN
P-009.00	NINTH FLOOR PLUMBING PLAN
P-010.00	TENTH FLOOR PLUMBING PLAN
P-011.00	ROOF LEVEL PLUMBING PLAN
P-012.00	SANITARY RISER DIAGRAM
P-013.00	DOMESTIC WATER RISER DIAGRAM
P-014.00	STORM WATER AND NATURAL GAS RISER DIAGRAMS
P-015.00	PLUMBING DETAILS
P-016.00	PLUMBING DETAILS

SPRINKLER	
SP/SD-000.00	SPRINKLER/STANDPIPE SITE PLAN
SP/SD-001.00	CELLAR FLOOR SPRINKLER/STANDPIPE PLAN
SP/SD-002.00	FIRST FLOOR SPRINKLER/STANDPIPE PLAN
SP/SD-003.00	SECOND AND THIRD FLOOR SPRINKLER/STANDPIPE PLAN
SP/SD-004.00	FOURTH FLOOR SPRINKLER/STANDPIPE PLAN
SP/SD-005.00	FIFTH THROUGH NINTH FLOOR SPRINKLER/STANDPIPE PLAN
SP/SD-006.00	TENTH FLOOR SPRINKLER/STANDPIPE PLAN
SP/SD-007.00	ROOF LEVEL SPRINKLER/STANDPIPE PLAN
SP/SD-008.00	SPRINKLER/STANDPIPE RISER DIAGRAM AND DETAILS

ELECTRICAL	
E-001.00	ELECTRICAL SYMBOL LIST AND NOTES
E-101.00	CELLAR ELECTRICAL LIGHTING PLAN
E-102.00	1ST FLOOR ELECTRICAL LIGHTING PLAN
E-103.00	2ND-3RD FLOOR ELECTRICAL LIGHTING PLAN
E-104.00	4TH FLOOR ELECTRICAL LIGHTING PLAN
E-105.00	5TH-9TH FLOOR ELECTRICAL LIGHTING PLAN
E-106.00	10TH FLOOR ELECTRICAL LIGHTING PLAN
E-201.00	CELLAR ELECTRICAL POWER PLAN
E-202.00	1ST FLOOR ELECTRICAL POWER PLAN
E-203.00	2ND-3RD FLOOR ELECTRICAL POWER PLAN
E-204.00	4TH FLOOR ELECTRICAL POWER PLAN
E-205.00	5TH-9TH FLOOR ELECTRICAL POWER PLAN
E-206.00	10TH FLOOR ELECTRICAL POWER PLAN
E-207.00	ROOF ELECTRICAL POWER PLAN
E-301.00	ELECTRICAL RISER DIAGRAM
E-302.00	ELECTRICAL PANEL SCHEDULES
E-303.00	ELECTRICAL PANEL SCHEDULES
E-304.00	ELECTRICAL PANEL SCHEDULES
E-305.00	ELECTRICAL SCHEDULE & DIAGRAMS
E-306.00	ELECTRICAL DIAGRAMS
E-401.00	ELECTRICAL DETAILS

FIRE ALARM	
FA-001.00	CELLAR FIRE ALARM PLAN
FA-002.00	FIRST FLOOR FIRE ALARM PLAN
FA-003.00	2ND-3RD FLOOR FIRE ALARM PLAN
FA-004.00	4TH FLOOR FIRE ALARM PLAN
FA-005.00	5TH-9TH FLOOR TYPICAL FIRE ALARM PLAN
FA-006.00	10TH FLOOR FIRE ALARM PLAN
FA-007.00	ROOF FIRE ALARM PLAN
FA-008.00	FIRE ALARM RISER DIAGRAM



D.O.B. NOTES:

- THIS BUILDING CONTAINS A FIRE ALARM SYSTEM FILED UNDER A SEPARATE APPLICATION.
- ELEVATOR TO BE FILED UNDER A SEPARATE APPLICATION.
- THIS BUILDING IS NOT WITHIN 90' OF A HISTORIC / LANDMARK BUILDING OR DISTRICT
- BUILDERS PAVEMENT PLAN FILED UNDER A SEPARATE APPLICATION.

For Department of Buildings Use

Issuance Schedule		
No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title	
COVER	
Sign & Seal	
Job no.	12.08
Drawn by	JPH
Checked by	AM / TS
Sheet scale	As indicated
Drawing No.	T-000.00
Date	01/20/14
DOB sheet	1 OF 49
DOB NUMBER	220211955

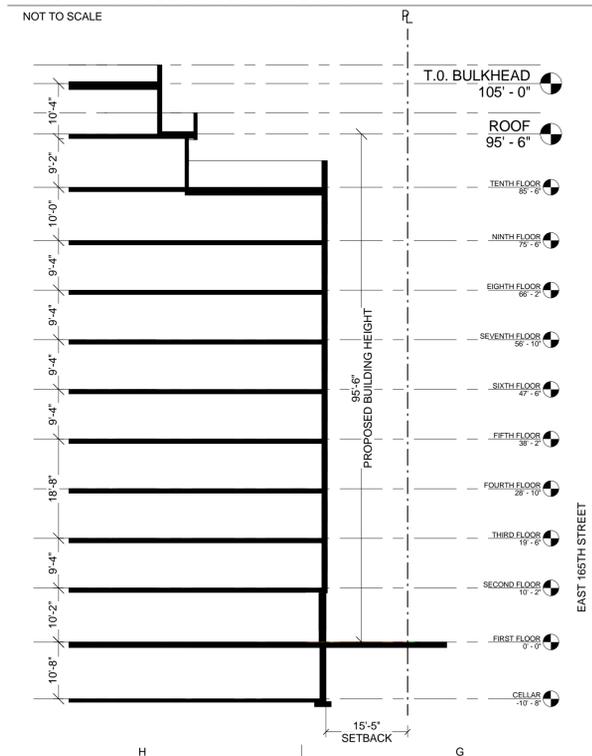
ZONING INFORMATION

Applicable Resolution	Zoning Resolution of The City of New York City Planning Commission Department of City Planning numbers below refer to this document	
Address	491 EAST 165TH STREET, BRONX, NEW YORK	
Block	2370	Lot 52
Zoning Map	03d & 06c	Zoning District MX-7 (M1-1/R7-2 EQUIVALENT) (Sec. 22-13)
Proposed Building Use	Use Group 3A Non-Profit Institutional Use With Sleeping Accommodations (Sec. 22-13)	
Lot Area (LA)	10,318 sf	
Floor Area	FAR 3.44 (Sec. 24-111 b) Maximum Floor Area Permitted: (LA x FAR) = 35,493 sf	
Proposed Gross Building Code Floor Area: (see area tabulations below)	40,645 SF	
Proposed Zoning Floor Area: 1st to 9th Flrs (3,703 SF x 9 Sto.) 10th Floor Mechanical Dedications Sub-total = Proposed Zoning Floor Area =	33,327 SF 2,488 SF 35,815 SF -450 SF 35,366 SF	
Lot Coverage	Maximum Lot Coverage Permitted: 65% (Sec. 24-11) 10,318 x .65 = 6,706 sf Proposed Lot Coverage: 3,703 SF = 35.8 % COMPLIES	
Yard Coverage	Front Yard: Not Required Side Yards: Not Required Rear Yard: 30'-0" Minimum - Interior Lot (Sec. 24-34) (Sec. 24-35b) (Sec. 24-36) COMPLIES	
Building Height	Max. Ht. of Front Wall: 135' Initial Setback: 15' Min. for Narrow Street Sky Exposure Plane: 2.7:1 for Narrow Street Proposed Building Height: 10 STORIES @ 95'-6" (See Diagram) COMPLIES	
Parking Regulations	Number of Units: 58 Units Required Parking Spaces: 25% for Government Assisted = 15 (Sec. 25-25) Waived for 15 spaces or less Proposed: None / None Required COMPLIES	
Bicycle Parking	Required 1 Per 10,000 SF of Floor Area 35,752 SF Floor Area / 10,000 = 4 Spaces Waived for 3 or less spaces for "Community facility" use. Proposed: 4 COMPLIES	
Street Tree & Planting	Required 1 per 25' of frontage 75' Frontage / 25' = 3 Trees Required (Sec. 26-41) Trees to be preserved on site: 1 New trees to be planted on site: 1 New trees to be planted off site: 1 Total Proposed: 3 COMPLIES	
Environmental Conditions	Dwelling units in Special Mixed Use District #7 require min. 35dBA of window wall attenuation to maintain an interior noise level of 45dBA or less. Alternate means of ventilation is required. (Sec. 123-32)	
CEQR Environmental Designation	Lot 52 has an "E-118" environmental designation requiring underground gasoline storage tanks testing protocol. (Appendix C)	
Central Office	Maximum persons allowed: 50 First Floor Area: 3703 SF Maximum Central Office Floor Area < 25% of Total First Floor Area Proposed: 10 Office Area: 397 COMPLIES	

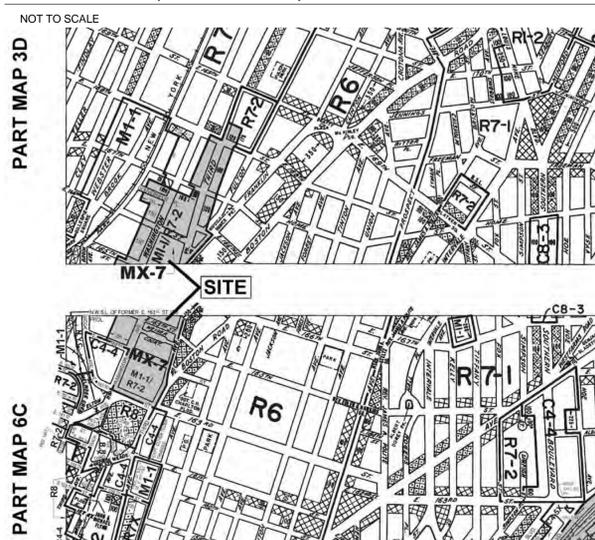
AREA TABULATION

GROSS FLOOR AREA		ZONING FLOOR AREA	
LEVEL	AREA	LEVEL	AREA
CELLAR	4126 SF	FIRST FLOOR	3703 SF
FIRST FLOOR	3703 SF	SECOND FLOOR	3703 SF
SECOND FLOOR	3703 SF	THIRD FLOOR	3703 SF
THIRD FLOOR	3703 SF	FOURTH FLOOR	3703 SF
FOURTH FLOOR	3703 SF	FIFTH FLOOR	3703 SF
FIFTH FLOOR	3703 SF	SIXTH FLOOR	3703 SF
SIXTH FLOOR	3703 SF	SEVENTH FLOOR	3703 SF
SEVENTH FLOOR	3703 SF	EIGHTH FLOOR	3703 SF
EIGHTH FLOOR	3703 SF	NINTH FLOOR	3703 SF
NINTH FLOOR	3703 SF	TENTH FLOOR	2488 SF
TENTH FLOOR	2488 SF	ROOF	703 SF
ROOF	703 SF		
	40645 SF		

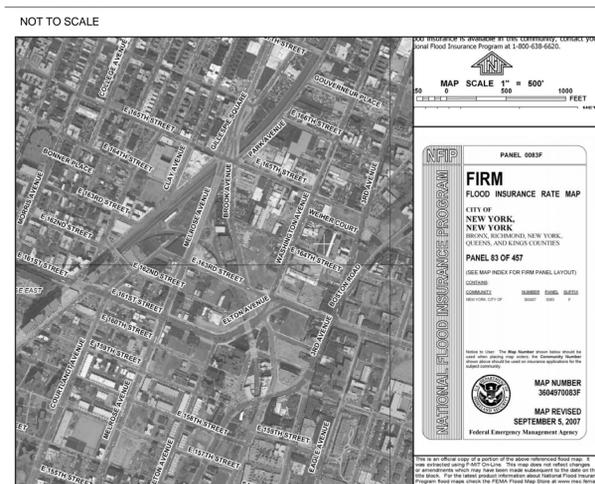
HEIGHT AND SETBACK DIAGRAM



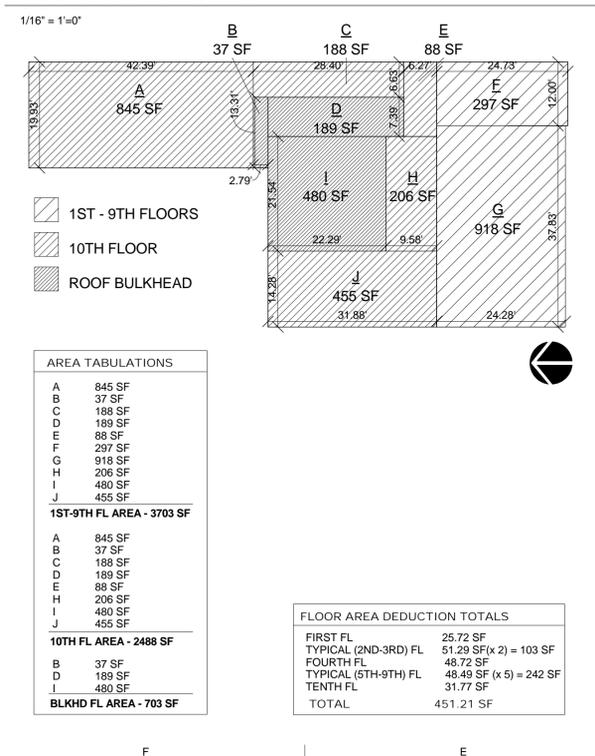
ZONING MAP (PART 3D / 6C)



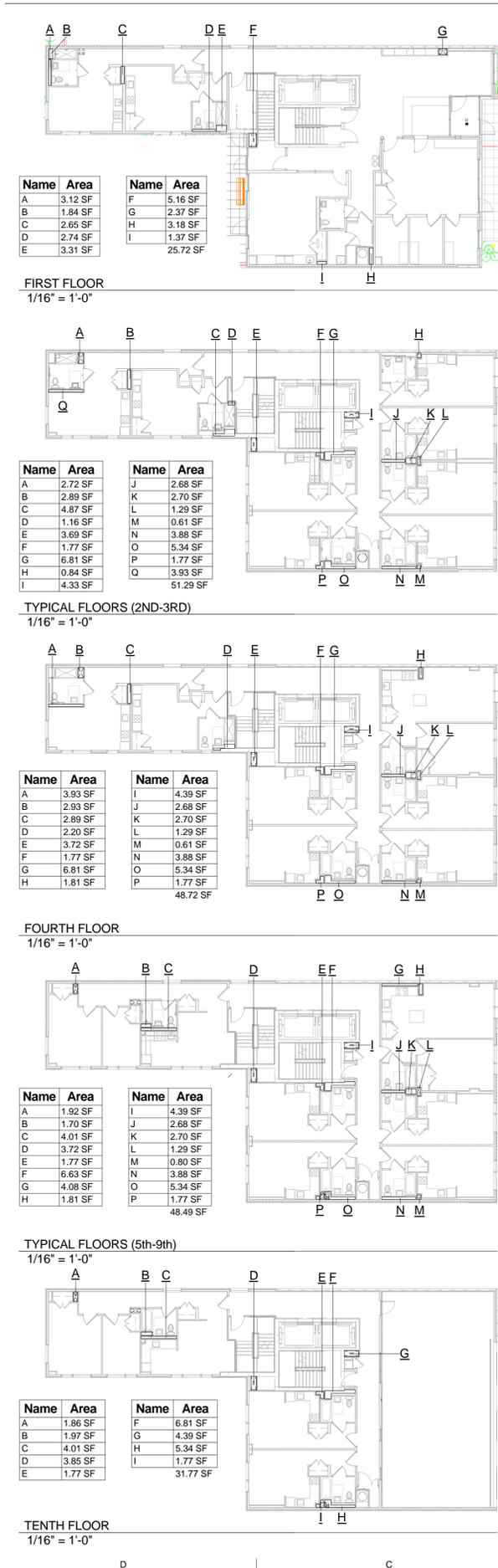
FIRM MAP



FLOOR AREA DIAGRAM



FLOOR AREA DEDUCTIONS



BUILDING CODE REQUIREMENTS

APPLICABLE CODE: NOTE: All numbers noted after listings refer to section numbers from this document.	Building code of the City of New York - 2008 - Latest Edition New York City Energy Conservation Code (NYCECC) - Latest Edition Code of the City of New York - 2008 - Latest Edition			
FIRE DISTRICT: (CHAPTER 5)	The property is located within a fire district (BC D105)			
SEPARATION OF OCCUPANCIES: (CHAPTER 5)				
INCIDENTAL USE AREAS (TABLE 508.2)				
ROOM OR AREA	SEPARATION REQ.	MIN. PROVIDED	COMPLIES	
ROOMS WITH BOILER OVER 15 PSI / 10 HP	2 HR OR 1 HR W/ AUTOMATIC FIRE-EXTINGUISHING SYSTEM	2 HOUR	COMPLIES	
ROOMS WITH BOILER 15 PSI / 10 HP OR LESS	1 HR OR AUTOMATIC SPRINKLER SYSTEM	1 HOUR	COMPLIES	
MECHANICAL AND/OR ELECTRICAL ROOMS	1 HR OR AUTOMATIC SPRINKLER SYSTEM	1 HOUR	COMPLIES	
LAUNDRY ROOMS OVER 100 SF	1 HR OR AUTOMATIC FIRE-EXTINGUISHING SYSTEM	1 HOUR	COMPLIES	
STORAGE ROOMS OVER 100 SF	1 HR OR AUTOMATIC FIRE-EXTINGUISHING SYSTEM	2 HOUR	COMPLIES	
MIXED OCCUPANCIES: (BC 508.3)	NO SEPARATION OF OCCUPANCY IS REQUIRED FOR ACCESSORY OCCUPANCIES AS PER BC 508.3.1.3. ASSEMBLY AREAS HAVING A FLOOR AREA LESS THAN 750 SF ARE CONSIDERED ACCESSORY OCCUPANCY AS PER BC 508.3.1.1.1.			
SPECIAL PROVISIONS: (BC 509.9)	SPACES OR DWELLING UNITS OCCUPIED BY DIFFERENT TENANTS SHALL BE SEPARATED BY FIRE BARRIERS HAVING AT LEAST 1-HOUR FIRE RESISTANT RATING.			
TYPE OF CONSTRUCTION: (CHAPTER 6)	IB (Table 601) Table 503.1B allows unlimited stories and floor area.			
ELEMENT: STRUCTURAL FRAME Including Columns, girders, trusses	HOURS REQUIRED: 2 hour(s) Min. PROVIDED/HOURS: 2 hour(s) COMPLIES			
BEARING WALLS	EXTERIOR: 2 hour(s) INTERIOR: 2 hour(s) COMPLIES			
FLOOR CONSTRUCTION	2 hour(s) 1 hour(s) COMPLIES MIN 8" CONC.			
NON-BEARING EXTERIOR WALLS: SEPARATION DISTANCE: <5'	1 hour(s) 1 hour(s) COMPLIES			
SEPARATION DISTANCE: 5 to <10'	1 hour(s) 1 hour(s) COMPLIES			
SEPARATION DISTANCE: 10 to <30'	1 hour(s) 1 hour(s) COMPLIES			
SEPARATION DISTANCE: >30'	0 hour(s) 0 hour(s) COMPLIES			
FIRE-RESISTANCE RATED CONSTRUCTION: (CHAPTER 7)				
SHAFT ENCLOSURES: (BC707)	SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 2 HOURS WHERE PENETRATING 3 STORIES OR MORE AS PER BC 707.4			
INTERIOR FINISHES: (CHAPTER 8)				
FLAME SPREAD RATING:	INTERIOR FINISH CLASS	FLAME SPREAD RATING	LOCATION	SMOKE DEVELOPED RATING
(803.1)	A	0 TO 25	EXIT & CORRIDORS	25
	B	26 TO 75		
	C	76 TO 225		
INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY: (TABLE 803.5)	OCCUPANCY GROUPS SPRINKLERED AREAS: R-2 VERTICAL AND EXIT PASSAGEWAYS: B EXIT ACCESS CORRIDORS & OTHER EXITWAYS: B ROOMS & ENCLOSED SPACES: C			
FIRE PROTECTION SYSTEM: (CHAPTER 9)	Fire Alarm System without Notification Appliances per BC section 907.2.			
EXIT AND ACCESS REQUIREMENTS: (CHAPTER 10)	Sprinklered Building - IIA Construction Class			
Occupancy loads: (Table 1004.1.2)	Assembly Table and Chairs: 15 SF Net /Occ. Business Areas: 100 SF Gross /Occ. Residential: 200 SF Gross /Occ. Accessory Storage/ Mech. Rooms: 300 SF Gross /Occ.			
Egress Width per Occupancy Served: (Table 1005.1)	Occupancy: Other than H Occ. Stairways: 0.3' / Occ. Other Components: 0.2' / Occ.			
NOTE: MULTIPLE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50% AS PER 1005.1 - MIN 44" AT ALL STAIRS AND CORRIDORS. (Table 1015.1 and BC 1016.3)	REQUIRED: PROVIDED: Maximum exit access travel distance for R2 Occ.: 200'-0" max. "LESS THAN 200'-0" COMPLIES Maximum dead end corridor for R2 Occ.: 40'-0" max. "LESS THAN 40'-0" COMPLIES *See Floor Plans for Calculations			
PUBLIC CORRIDOR FIRE RESISTANCE RATING (Table 1016.1.2)	OCCUPANCY R (NONCOMBUSTIBLE) - 1-HOUR			
INTERIOR ENVIRONMENT: (CHAPTER 12)				
SOUND TRANSMISSION (BC1207)				
ELEMENT:	REQUIRED:	PROVIDED:		
Between Dwelling Units	STC 50	3" Thermalfiber SAB between metal studs with 5/8" F.C. "type X" gypsum board both sides - STC 52		
Between Dwelling Units and Public Hall (walls)	STC 50	3" Thermalfiber SAB btw metal studs with 5/8" F.C. "type X" gypsum board two layers one side and one layer on the other - STC 50		
Between Dwelling Units and Public Hall (doors):	STC 35	1-3/4" thick 3'-0" x 7'-0" F.P.S.C. hollow metal door with core - STC 35		
Elevator Shafts, etc.:	STC 35	Elevator shaft: Min 8" Concrete Wall STC >50 Other Shafts: Shaftwall assembly pwe UL U415, BSA 542-68-SM, RAL-OT-022 STC 48		
Between Dwelling Units and Dwelling Units (floor):	STC 50	Min. 8" Concrete STC >50		
Ductwork:	INC - 0	To comply with chapter 28		

Project
491 E. 165TH STREET
BRONX, NEW YORK 10456

Owner
PSCH, INC / CHRISTA
40 ELMONT ROAD, ELMONT, NY 11003

Sponsor
NEW YORK STATE OFFICE OF MENTAL HEALTH

Architect
UAI URBAN ARCHITECTURAL INITIATIVES
233 Broadway, Suite 2150 New York, NY 10079
1-212-979-1510 1-212-979-1797 www.uai-ny.com

STRUCTURAL ENGINEER
YSRAEL A. SEINUK, PC
228 E 45TH STREET, NEW YORK, NY 10017

MEP ENGINEER
EMTG CONSULTANTS, INC
115 W 30TH STREET STE 202, NEW YORK, NY 10001

CIVIL ENGINEER
MICHAEL WEIN, PE
135 COUNTRY CLUB DR, MONROE TWP, NJ 08831

LANDSCAPE ARCHITECT:
LIZ FARRELL LANDSCAPE ARCHITECTURE, PLLC
523 6TH AVENUE, BROOKLYN, NY 11215

CODE CONSULTANT
DESIGN 2147, LTD
52 DIAMOND STREET, BROOKLYN, NY 11222

ESTIMATOR
CHAM ESTIMATING SERVICE
1 VANDERWATER CT, EAST BRUNSWICK, NJ 08816

Plot Plan

For Department of Buildings Use

Issuance Schedule

No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
ZONING & BUILDING CODE ANALYSIS

Sign & Seal

Job no.	12.08
Drawn by	JPH
Checked by	AM / TS
Sheet scale	As indicated
Drawing No.	Z-100.00
Date	01/20/14
DOB sheet	2 OF 49
DOB NUMBER	220211955



2010 New York Energy Conservation Construction Code

Section 1: Project Information

Project Type: New Construction
Project Title: 491 E. 165th Street, Bronx
Construction Site: 491 East 165th Street, Bronx, New York 10456
Owner/Agent: PSCH, Inc., 40 Elmont Road, Elmont, New York 11003
Designer/Contractor: Urban Architectural Initiatives, 233 Broadway, Suite 2150, New York, New York 10079

Section 2: General Information

Building Location (for weather data): Bronx, New York
Climate Zone: 4a
Building Space Conditioning Type(s): Residential
Vertical Glazing / Wall Area Pct: 17%

Activity Type(s): Multifamily
Floor Area: 40645

Section 3: Requirements Checklist

Envelope PASSES: Design 4% better than code.

Climate-Specific Requirements:

Table with 5 columns: Component Name/Description, Gross Area or Perimeter, Cavity R-Value, Cont. R-Value, Proposed U-Factor, Budget U-Factor. Lists various building components like Bulkhead Roof, SOUTH Bulkhead, etc.

Project Title: 491 E. 165th Street, Bronx
Data filename: \\RAID1\00\Projects\Projects\2012\Projects\12_08_491 E165th SR01_Project Mgmt\04_DOB Docs\COMCHECK\491_E_165th_Street_Bronx.cad
Report date: 01/16/14
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Table with 5 columns: Component Name/Description, Gross Area or Perimeter, Cavity R-Value, Cont. R-Value, Proposed U-Factor, Budget U-Factor. Lists various building components like SOUTH (Type D) Typ Brick Wall, Unit Windows @ South Brick Wall, etc.

(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.

Air Leakage, Component Certification, and Vapor Retarder Requirements:

- 1. All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable wrapping material installed in accordance with the manufacturer's installation instructions.
2. Windows, doors, and skylights certified as meeting leakage requirements.
3. Component R-values & U-factors labeled as certified.
4. No roof insulation is installed on a suspended ceiling with removable ceiling panels.
5. Other components have supporting documentation for proposed U-factors.
6. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.
7. Stair, elevator shaft vents, and other outdoor air intake and exhaust openings in the building envelope are equipped with motorized dampers.
8. Cargo doors and loading dock doors are weather sealed.
9. Recessed lighting fixtures installed in the building envelope are Type IC rated as meeting ASTM E283, are sealed with gasket or caulk.
10. Building entrance doors have a vestibule equipped with self-closing devices.
11. Building entrances with revolving doors.
12. Doors not intended to be used as a building entrance.
13. Doors that open directly from a space less than 3000 sq. ft. in area.
14. Doors used primarily to facilitate vehicular movement or materials handling and adjacent personnel doors.

Project Title: 491 E. 165th Street, Bronx
Data filename: \\RAID1\00\Projects\Projects\2012\Projects\12_08_491 E165th SR01_Project Mgmt\04_DOB Docs\COMCHECK\491_E_165th_Street_Bronx.cad
Report date: 01/16/14
Page 2 of 3

Doors opening directly from a sleeping/dwelling unit.

Section 4: 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 system has been designed to meet the 2010 New York Energy Conservation Construction Code requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

When a Registered Design Professional has stamped and signed this page, they are attesting that to the best of his/her knowledge, belief, and professional judgment, such plans or specifications are in compliance with this Code.

Name - Title Signature Date



2010 New York Energy Conservation Construction Code

Section 1: Project Information

Project Type: New Construction
Project Title: 491 E. 165th Street, Bronx
Construction Site: 491 East 165th Street, Bronx, New York 10456
Owner/Agent: PSCH, Inc., 40 Elmont Road, Elmont, New York 11003
Designer/Contractor: Urban Architectural Initiatives, 233 Broadway, Suite 2150, New York, New York 10079

Section 2: Interior Lighting and Power Calculation

Table with 4 columns: Area Category, Floor Area (ft2), Allowed Watts / ft2, Allowed Watts (B x C). Shows calculations for Multifamily area.

Section 3: Interior Lighting Fixture Schedule

Table with 5 columns: Fixture ID - Description / Lamp / Wattage Per Lamp / Ballast, Lamps / Fixture, # of Fixtures, Fixture Watt (C x D), E. Lists various lighting fixtures like Linear Fluorescent, LED, etc.

Project Title: 491 E. 165th Street, Bronx
Data filename: \\RAID1\00\Projects\Projects\2012\Projects\12_08_491 E165th SR01_Project Mgmt\04_DOB Docs\COMCHECK\491_E_165th_Street_Bronx.cad
Report date: 12/12/13
Page 1 of 3

Section 4: Requirements Checklist

Interior Lighting PASSES: Design 7% better than code.

- Lighting Wattage:
1. Total proposed watts must be less than or equal to total allowed watts.
Controls, Switching, and Wiring:
2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.
3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Section 5: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2010 New York Energy Conservation Construction Code requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

When a Registered Design Professional has stamped and signed this page, they are attesting that to the best of his/her knowledge, belief, and professional judgment, such plans or specifications are in compliance with this Code.

Name - Title Signature Date

Project Title: 491 E. 165th Street, Bronx
Data filename: \\RAID1\00\Projects\Projects\2012\Projects\12_08_491 E165th SR01_Project Mgmt\04_DOB Docs\COMCHECK\491_E_165th_Street_Bronx.cad
Report date: 12/12/13
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2010 New York Energy Conservation Construction Code

Section 1: Project Information

Project Type: New Construction
Project Title: 491 E. 165th Street, Bronx
Exterior Lighting Zone: 2 (Residential mixed use area)
Construction Site: 491 East 165th Street, Bronx, New York 10456
Owner/Agent: PSCH, Inc., 40 Elmont Road, Elmont, New York 11003
Designer/Contractor: Urban Architectural Initiatives, 233 Broadway, Suite 2150, New York, New York 10079

Section 2: Exterior Lighting Area/Surface Power Calculation

Table with 6 columns: Exterior Area/Surface, Quantity, Allowed Watts / Unit, Tradable Wattage, Allowed Watts (B x C), Proposed Watts. Lists various exterior lighting areas like Main Entry door, Deck, Rear Door, etc.

* Wattage tradeoffs are only allowed between tradable areas/surfaces.
** A supplemental allowance equal to 800 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

Table with 5 columns: Fixture ID - Description / Lamp / Wattage Per Lamp / Ballast, Lamps / Fixture, # of Fixtures, Fixture Watt (C x D), E. Lists exterior lighting fixtures like Main Entry door, Deck, Rear Door, etc.

Project Title: 491 E. 165th Street, Bronx
Data filename: \\RAID1\00\Projects\Projects\2012\Projects\12_08_491 E165th SR01_Project Mgmt\04_DOB Docs\COMCHECK\491_E_165th_Street_Bronx.cad
Report date: 12/13/13
Page 6 of 7

Table with 5 columns: Fixture ID - Description / Lamp / Wattage Per Lamp / Ballast, Lamps / Fixture, # of Fixtures, Fixture Watt (C x D), E. Lists exterior lighting fixtures like LED L-32 @ Bulkhead, LED L-30 Exterior UP/DN, etc.

Section 4: Requirements Checklist

- Lighting Wattage:
1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.
Controls, Switching, and Wiring:
2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.
3. Lighting not designated for dusk-to-dawn operation is controlled by either a a photosensor (with time switch), or an astronomical time switch.
4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.
5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.

Section 5: 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 lighting system has been designed to meet the 2010 New York Energy Conservation Construction Code requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

When a Registered Design Professional has stamped and signed this page, they are attesting that to the best of his/her knowledge, belief, and professional judgment, such plans or specifications are in compliance with this Code.

Name - Title Signature Date

Project Title: 491 E. 165th Street, Bronx
Data filename: \\RAID1\00\Projects\Projects\2012\Projects\12_08_491 E165th SR01_Project Mgmt\04_DOB Docs\COMCHECK\491_E_165th_Street_Bronx.cad
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Project
491 E. 165TH STREET
BRONX, NEW YORK 10456
Owner
PSCH, INC / CHRISTA
40 ELMONT ROAD, ELMONT, NY 11003
Sponsor
NEW YORK STATE
OFFICE OF MENTAL HEALTH



STRUCTURAL ENGINEER
YSRAEL A. SEINUK, PC
228 E 45TH STREET, NEW YORK, NY 10017

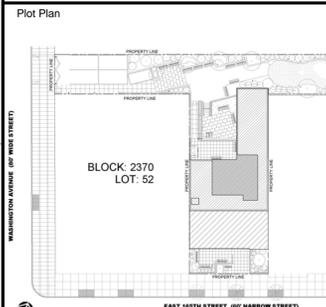
MEP ENGINEER
EMTG CONSULTANTS, INC
115 W 30TH STREET STE 202, NEW YORK, NY 10001

CIVIL ENGINEER
MICHAEL WEIN, PE
135 COUNTRY CLUB DR, MONROE TWP, NJ 08831

LANDSCAPE ARCHITECT:
LIZ FARRELL LANDSCAPE
ARCHITECTURE, PLLC
523 6TH AVENUE, BROOKLYN, NY 11215

CODE CONSULTANT
DESIGN 2147, LTD
52 DIAMOND STREET, BROOKLYN, NY 11222

ESTIMATOR
CHAM ESTIMATING SERVICE
1 NARDWATER CT, EAST BRUNSWICK, NJ 08816



For Department of Buildings Use

ENERGY CODE PROGRESS INSPECTION

Table with 2 columns: Y/N Progress Inspections, Table Reference in 16 NYC §5000-01(h) (1) and (2). Lists various energy code requirements like Protection of foundation insulation, Fenestration thermal values, etc.

Section 5: 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 lighting system has been designed to meet the 2010 New York Energy Conservation Construction Code requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title Signature Date

Project Title: 491 E. 165th Street, Bronx
Data filename: \\RAID1\00\Projects\Projects\2012\Projects\12_08_491 E165th SR01_Project Mgmt\04_DOB Docs\COMCHECK\491_E_165th_Street_Bronx.cad
Report date: 12/13/13
Page 7 of 7

Issuance Schedule table with columns: No., Date, Description. Shows 12/16/2013 DESIGN DEVELOPMENT SUBMITTAL and 01/20/2014 DOB SUBMISSION.

Drawing Title
ENERGY ANALYSIS I

Sign & Seal
Job no. 12.08
Drawn by JPH
Checked by AM / TS
Sheet scale

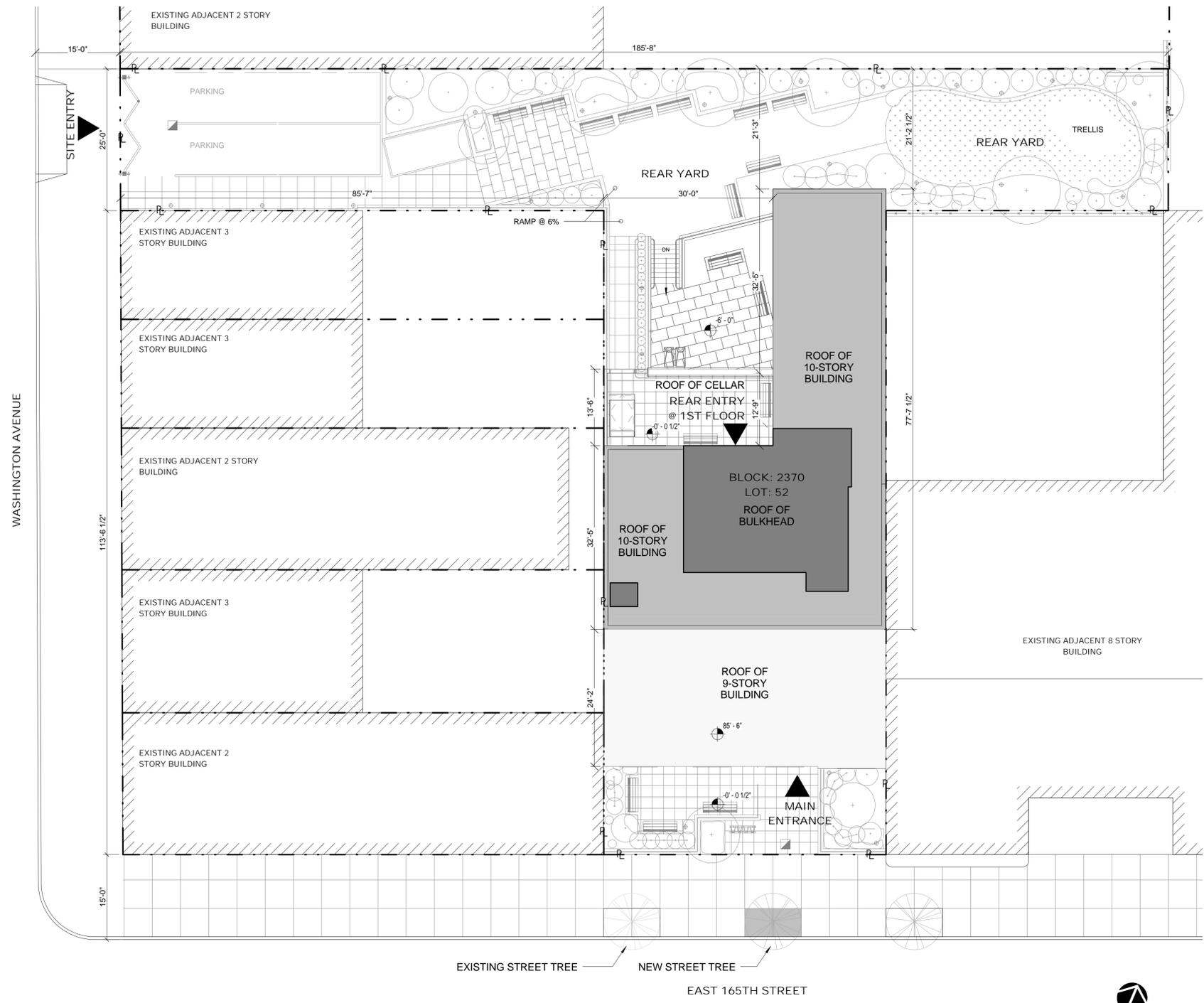
Drawing No.
EN-000.00

Date 01/20/14 DOB sheet 5 OF 49

DOB NUMBER 220211955

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1 SITE PLAN
3/32" = 1'-0"

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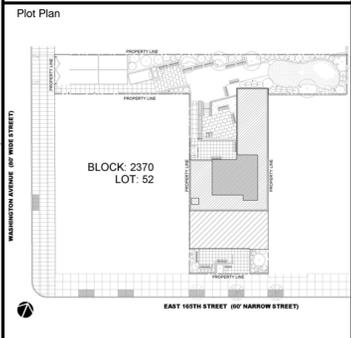
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	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
SITE PLAN

Sign & Seal	Job no.	12.08
	Drawn by	JPH
	Checked by	AM / TS
	Sheet scale	As indicated
Drawing No.		A-000.00

Date	01/20/14	DOB sheet	8 OF 49
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DOB NUMBER
220211955

SHEET NOTES	

KEY NOTES	
1	CONCRETE PAVEMENT
2	PERMEABLE PRECAST PAVING
3	ASPHALT PAVING
4	SYNTHETIC TURF
5	COLORED CONCRETE PAVING

LEGEND	

BUILDING CODE ANALYSIS AND NOTES	

H G F E D C B A

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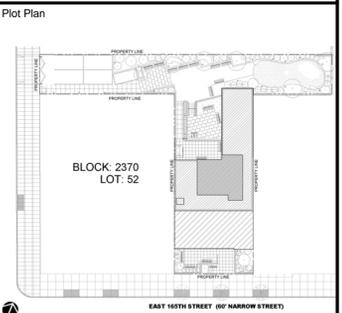
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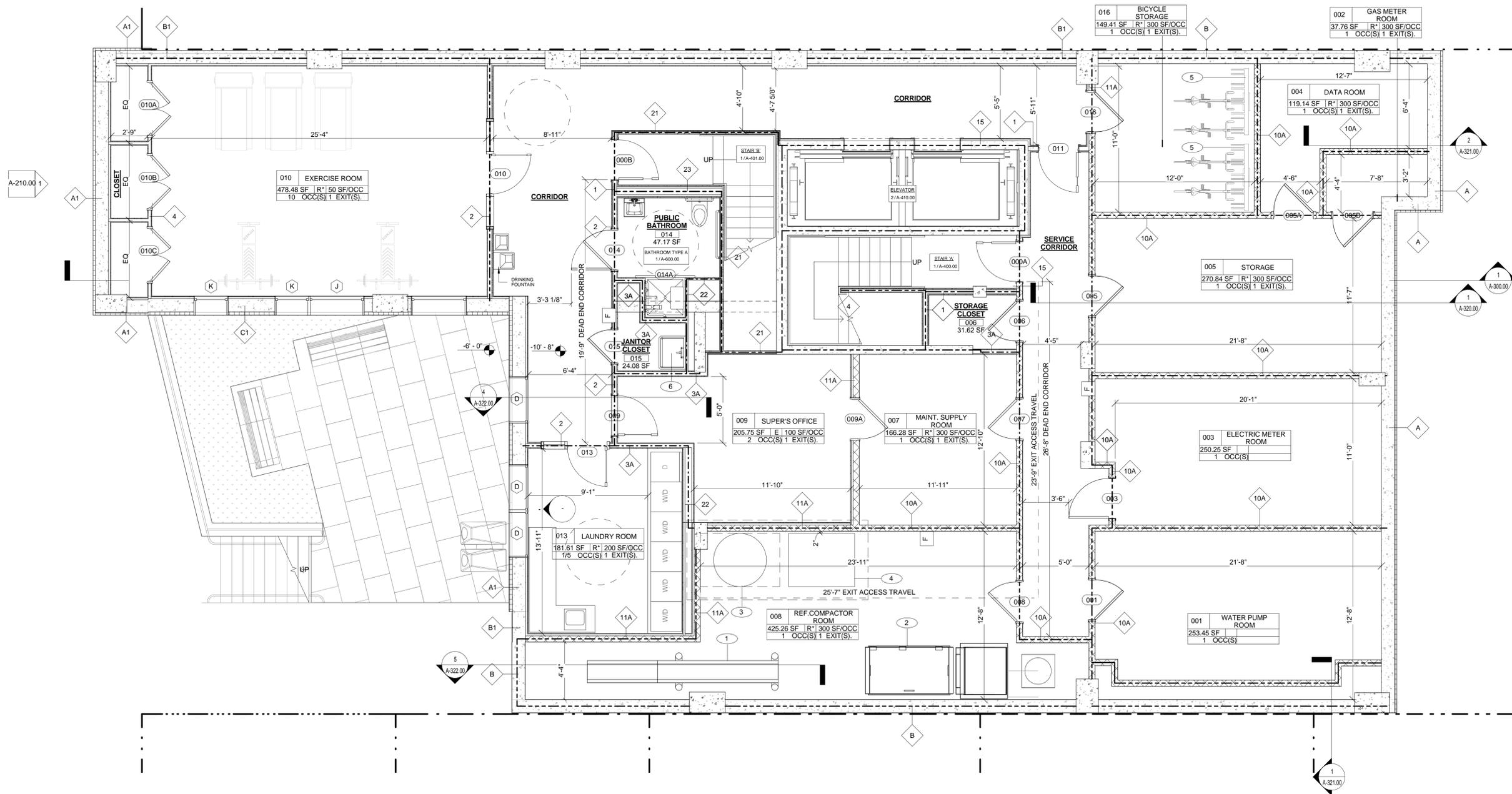
Drawing Title
CELLAR PLAN

Sign & Seal

Job no. 12.08
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 Checked by AM / TS
 Sheet scale 1/4" = 1'-0"
 Drawing No. **A-100.00**

Date 01/20/14 DOB sheet 9 OF 49

DOB NUMBER 220211955



1 CELLAR FLOOR PLAN
 1/4" = 1'-0"

SHEET NOTES

KEY NOTES

- 16" PORTABLE FOLDING BOOSTER BELT CONVEYOR MODEL BA BY HYTROL FINISH: STANDARD GREEN. PROVIDE WITH FLOOR LOCK OPTION, LOWER AND UPPER GRAVITY FEEDER AND REMOTE SWITCH CONTROL FOR OPERATIONS FROM TOP LANDING
- TRASH COMPACTOR MODEL: ECONO-KRUSHER BY: ROYAL PAK SYSTEMS
- SEWER EJECTOR PIT PER PLUMBING W/ FLUSH DIAMOND PLATED STEEL COVER BY BASIN MANF.
- SUMP PIT PER PLUMBING / CIVIL W/ FLUSH DIAMOND PLATED STEEL COVER PER STRUCTURAL.
- BICYCLE RACK MODEL: 5-BIKE SINGLE #T9F652770 BY: GLOBAL INDUSTRIAL
- MOP BASIN AND FAUCET PER SPEC

LEGEND

WALLS: 3 HOUR RATED DOORS: 1 1/2 HR FRSC FOR REFUSE COMPACTOR ROOM

WALLS: 2 HOUR RATED DOORS: 1 1/2 HR FRSC GLAZED OPENING: 1 1/2 HR FIRE RATED GLAZING PER UL9, UL10B, UL10C

WALLS: 1 HOUR RATED DOORS: 3/4 HR FRSC

1 WALL TYPE
 -SEE DWG A500.00 FOR INTERIOR WALLS
 -SEE DWG A510.00 FOR EXTERIOR WALLS
 NOTE:
 SEE ELEVATION FOR CHANGES IN WALL FINISH.

ROOM NO.	SQ. FT.	ROOM NAME	OCC. FACTOR	# REQ. EXITS

ILLUMINATED EXIT LIGHT. SHADED AREA INDICATES FACE VIEWED, ARROW AS SHOWN.

RECESSED FIRE EXTINGUISHER

SMOKE DETECTOR ELEVATOR RECALL

SMOKE DETECTOR CO2 DETECTOR

REF. FIRST FLOOR T.O. SLAB EL. 0'-0" WHICH EQUALS 28.90' SURVEY EL. SHOWN AS (X.X')

FLOOR DRAIN

BUILDING CODE ANALYSIS AND NOTES

OCCUPANCY LOADS PER TABLE 1004.1.2:

OCCUPANCY	FACTOR (SF/OCC.)	OCC.	ACTUAL OCC.
BUSINESS AREAS	100 GROSS	2	2
RESIDENTIAL (LAUNDRY RM)	200 GROSS	1	5
EXERCISE ROOM	50 GROSS	10	10
ACCESSORY STO. AND MECH.	300 GROSS	8	8

MAXIMUM OCCUPANTS: 25

EXIT CAPACITY PER TABLE 1005.1:

EXIT TYPE	WIDTH	FACTOR	MAX CAPACITY
STAIR A & B	44" Min	.37 / OCC.	146 OCC/STAIR
STAIR A & B DOOR	36"	.27 / OCC.	180 OCC/STAIR DOOR
CORRIDOR	44" Min	.27 / OCC.	220 OCC.

EXIT ACCESS TRAVEL DISTANCE 1015:
 MAXIMUM ALLOWED: 200' MAX. PROVIDED ON FLOOR: 49'-4"

DEAD END CORRIDOR 1016.3:
 MAXIMUM ALLOWED: 40' MAX. PROVIDED ON FLOOR: 26'-8"

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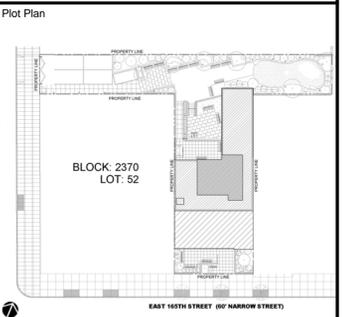
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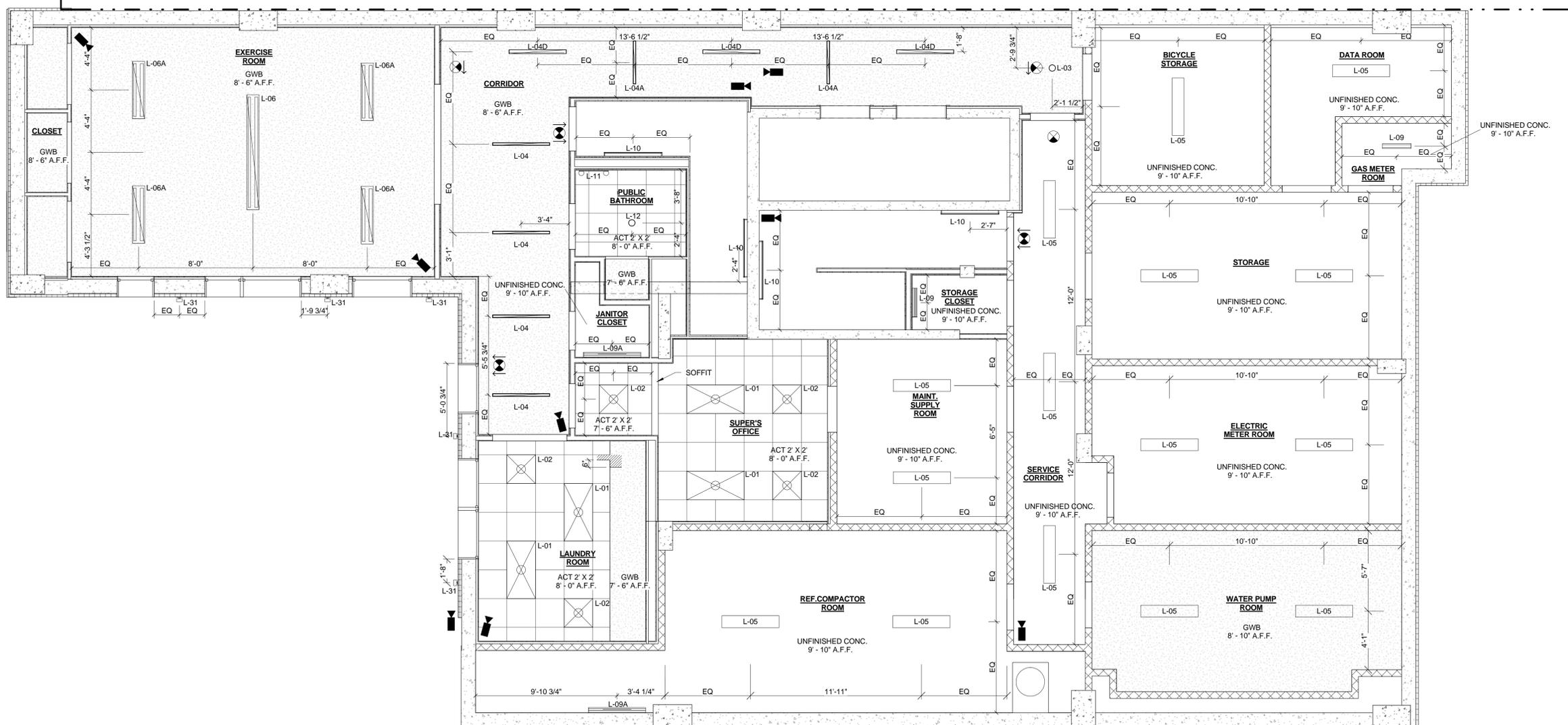
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For Department of Buildings Use



1 CELLAR RCP
 1/4" = 1'-0"

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-01	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING NEO-RAY TRIAD 17-P (2) 28W T5	2' X 4' @ ACT CEILINGS @ EXERCISE ROOM	SLOTTED PERFORATION
L-02	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING NEO-RAY TRIAD 242 (2) 14W T5	2' X 2' @ ACT CEILINGS	SLOTTED PERFORATION
L-03	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING PORTFOLIO L0419 (2) 14W T5	4' DOWNLIGHT @ CORRIDORS, REFUSE & RECYCLE ROOMS	
L-04	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING NEO-RAY STRAIGHT & NARROW LED (2) 25W T5	4' RECESSED STRIP @ PUBLIC AREAS	SHIELDING: SATIN WHITE LENS FLANGLESS FSR AT SHEETROCK
L-04A	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING NEO-RAY STRAIGHT & NARROW LED (2) 14W T5	3' RECESSED STRIP @ PUBLIC AREAS	SHIELDING: SATIN WHITE LENS FLANGLESS FSR AT SHEETROCK
L-04D	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING NEO-RAY 23XR GEN2 (2) 25W T5	4' RECESSED WALL WASH @ PUBLIC AREAS	FLANGLESS FSR AT SHEETROCK
L-05	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING METALLIX - W/LED (2) 25W T5	4' SURFACE MOUNT @ CELLAR SERVICE AREAS	
L-05A	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING METALLIX - W/LED (2) 25W T5	2' SURFACE MOUNT @ TYP. CORRIDORS	
L-06	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING NEO-RAY TRIAD 17-P (2) 28W T5	SUSPENDED 6' LINEAR PENDANT @ EXERCISE ROOM	DC PENDANT ROUND PERFORATION

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-06A	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING NEO-RAY TRIAD 17-P (2) 28W T5	SUSPENDED 4' LINEAR PENDANT @ EXERCISE ROOM	DC PENDANT ROUND PERFORATION
L-07	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING METALLIX SLED (8) 600 LUMEN, 86.4W, 3500K	8' STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-07A	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING METALLIX SLED (2) 2400 LUMEN, 23.11W, 3500K	2' STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-07B	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING METALLIX SLED (4) 800 LUMEN, 48.8W, 3500K	4' STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-09	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING METALLIX BC (1) 14W T5	2' UTILITY WALL MOUNT @ CELLAR	
L-09A	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING METALLIX BC (1) 14W T5	4' UTILITY WALL MOUNT @ CELLAR, JANITOR CLOSETS	
L-10	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING SURE-LITES (2) 25W T8	4' SURFACE MOUNT, MOTION-ACTIVATED @ STAIRS	8'-LEVEL
L-11	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING SHAPER 601 SERIES (2) 25W T8	36" VERTICAL PUBLIC BATHROOM VANITY WALL LUMINAIRE	NATURAL ALUMINUM FINISH DAMP LOCATION LISTED 4' SHELF
L-12	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING PORTFOLIO C4026 (1) 25W TTT	4' RECESSED DOWNLIGHT @ PUBLIC BATHROOMS	DAMP LOCATION LISTED

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-21	[Symbol]	MANF. MODEL: LAMPING: PROGRESS LIGHTING P7121 (2) CFT3	WALL MOUNT @ APT UNIT SLEEPING & LIVING AREAS	
L-22	[Symbol]	MANF. MODEL: LAMPING: PROGRESS LIGHTING P7114 (2) 17W T8	27" LINEAR FLOURESCENT @ UNIT KITCHENETTES	
L-22A	[Symbol]	MANF. MODEL: LAMPING: PROGRESS LIGHTING P7114 (2) 25W T8	30" LINEAR FLOURESCENT @ UNIT KITCHENETTES	
L-23	[Symbol]	MANF. MODEL: LAMPING: PROGRESS LIGHTING P7114 (2) 17W T8	27" VANITY LINEAR FLOURESCENT @ UNIT BATHROOMS	DAMP LOCATION LISTED
L-24	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING PORTFOLIO C4026 (1) 25W TTT	4' RECESSED DOWNLIGHT @ APT BATHROOMS	DAMP LOCATION LISTED
L-25	[Symbol]	MANF. MODEL: LAMPING: PROGRESS LIGHTING P7114 (2) 17W T8	27" LINEAR FLOURESCENT @ UNIT ALCOVES	
L-30	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING LUMIERE EON 303-W2 (2) 17W T8	EXTERIOR WALL MOUNT UPON LIGHT @ 1ST FL RECESSED FACADE	T4 OPTIC BLACK FINISH
L-31	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING LUMIERE EON 303-W1 (2) 17W T8	EXTERIOR WALL MOUNT DN LIGHT @ 1ST FL REAR FACADE	T4 OPTIC BLACK FINISH
L-32	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING ALL-PRO FE (2) 17W 3500K	EXTERIOR WALL MOUNT @ BULKHEADS	BRONZE FINISH
L-20	[Symbol]	MANF. MODEL: LAMPING: COOPER LIGHTING PORTFOLIO C4026 (1) 25W TTT	4' RECESSED DOWNLIGHT @ APT UNITS	

LEGEND AND LIGHTING NOTES	
KEY NOTES	LIGHTING NOTES
SYMBOL DESCRIPTION SMOKE DETECTOR CARBON MONOXIDE DETECTOR SMOKE DETECTOR WITH ELEVATOR RECALL ILLUMINATED EXIT LIGHT SHADED AREA INDICATES FACE VIEWED ARROW AS REQUIRED ELEVATION CHANGE SECURITY CAMERA	1. PROVIDE EMERGENCY BALLAST (WHERE AVAILABLE INTEGRAL TO THE FIXTURE) WHERE SHOWN ON ELECTRICAL DRAWINGS VOLTAGE AND BALLAST TO BE AS PER ELECTRICAL DRAWINGS / SPECIFICATIONS. ALL BALLASTS TO BE COMPATIBLE WITH OCCUPANCY AND DAYLIGHT SENSOR WERE REQUIRED. 2. PROVIDE ALL ACCESSORIES FOR THE PROPER INSTALLATION AND OPERATION OF FIXTURES. ALL FIXTURES, BALLASTS, AND EMERGENCY BALLASTS TO BE APPROVED FOR USE IN NYC. ALL EXIT SIGN LETTERING TO BE RED AND 6" HIGH. 3. MOUNTING AND TRIM TO BE AS REQUIRED FOR CEILING TYPE SCHEDULED. 4. WIRING FOR LIGHTS LOCATED AT SKIM COATED CONCRETE CEILING TO BE RUN IN CONDUIT CAST IN THE FLOOR SLAB.

Issuance Schedule		
No.	Date	Description
12/16/2013	DESIGN DEVELOPMENT SUBMITTAL	
01/20/2014	DOB SUBMISSION	

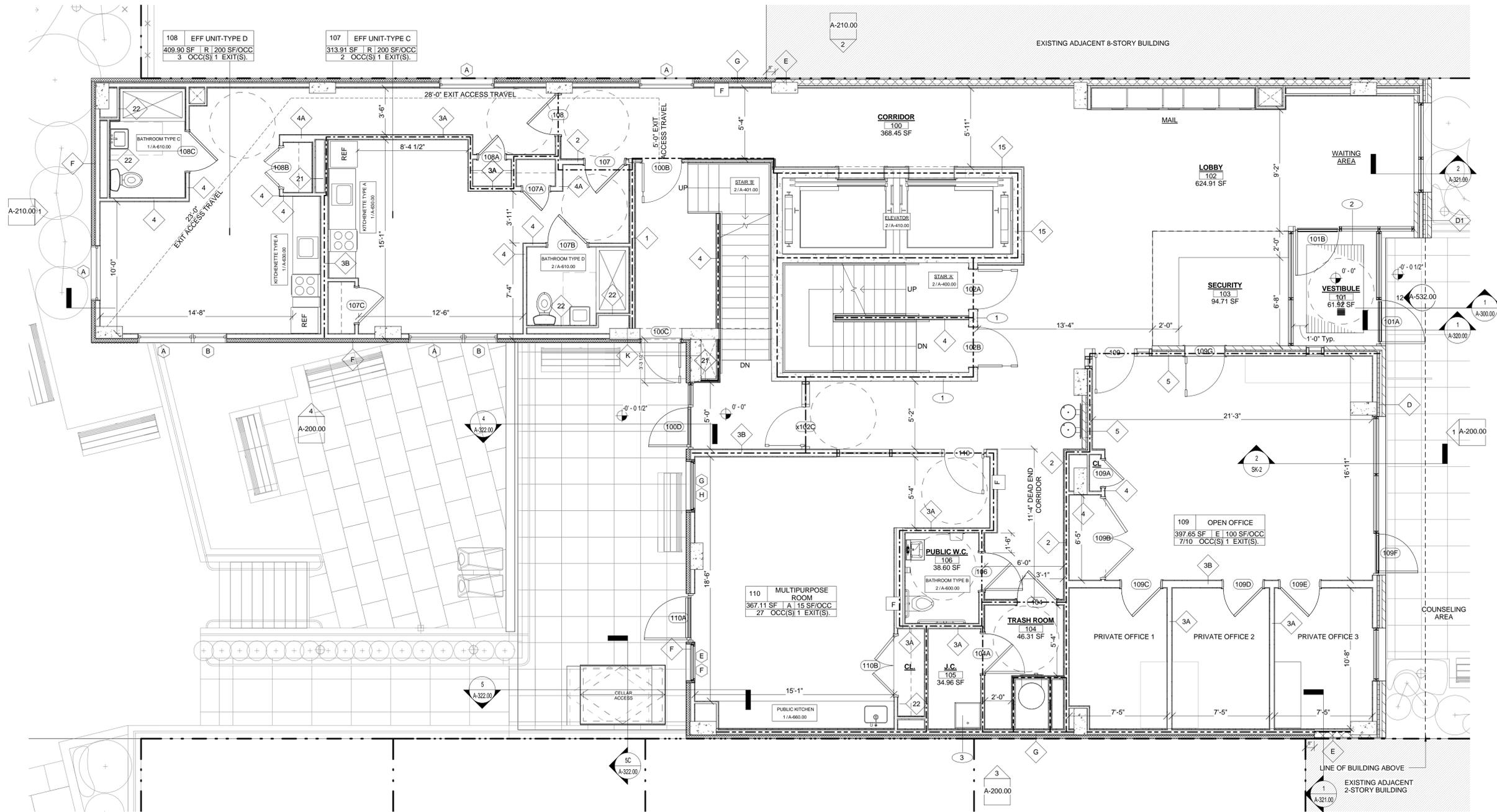
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Date 01/20/14 DOB sheet 10 OF 49

DOB NUMBER 220211955

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1 FIRST FLOOR PLAN
1/4" = 1'-0"

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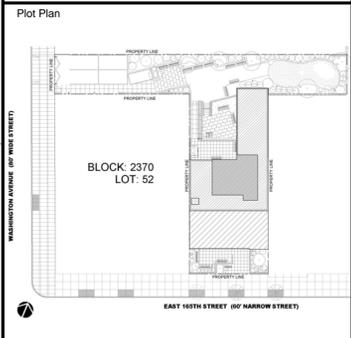
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	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
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Drawing Title
FIRST FLOOR PLAN

Sign & Seal	Job no. 12.08
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	Sheet scale 1/4" = 1'-0"
	Drawing No. A-110.00
Date 01/20/14	DOB sheet 11 OF 49
DOB NUMBER 220211955	

SHEET NOTES

KEY NOTES

- ARCHITECTURAL RUBBED CONCRETE WALL
- SSL FLOOR MAT AND FRAME PER SPEC
- MOP BASIN AND FAUCET PER SPEC

LEGEND

WALLS: 3 HOUR RATED DOORS: 1 1/2 HR FRSC FOR REFUSE COMPACTOR ROOM

WALLS: 2 HOUR RATED DOORS: 1 1/2 HR FRSC GLAZED OPENING: 1 1/2 HR FIRE RATED GLAZING PER UL9, UL10B, UL10C

WALLS: 1 HOUR RATED DOORS: 3/4 HR FRSC

WALL TYPE
-SEE DWG A500.00 FOR INTERIOR WALLS
-SEE DWG A510.00 FOR EXTERIOR WALLS
NOTE:
SEE ELEVATION FOR CHANGES IN WALL FINISH.

ROOM NO.	SQ. FT.	OCC. CLASS	NO. OF OCC.	ACTUAL

ROOM NAME OCC. FACTOR # REQ. EXITS

ILLUMINATED EXIT LIGHT. SHADED AREA INDICATES FACE VIEWED. ARROW AS SHOWN.

RECESSED FIRE EXTINGUISHER

SMOKE DETECTOR ELEVATOR RECALL

SMOKE DETECTOR CO2 DETECTOR

REF. FIRST FLOOR T.O. SLAB EL. 0'-0" WHICH EQUALS 28.90' SURVEY EL. SHOWN AS (X.X)

FLOOR DRAIN

BUILDING CODE ANALYSIS AND NOTES

OCCUPANCY LOADS PER TABLE 1004.1.2:	FACTOR (SF/OCC.)	OCC.	ACTUAL OCC.
BUSINESS AREAS	100 GROSS	7	10
ASSEMBLY-UNCONCENTRATED TABLES & CHAIRS	15 NET	27	27
RESIDENTIAL	200 GROSS	5	5
MAXIMUM OCCUPANTS: 42			

EXIT CAPACITY PER TABLE 1005.1:

EXIT TYPE	WIDTH	FACTOR (SF/OCC.)	MAX CAPACITY
STAIR A & B	44" Min	.3' / OCC.	146 OCC/STAIR
STAIR A & B DOOR	36"	.2' / OCC.	180 OCC/STAIR DOOR
CORRIDOR	44" Min	.2' / OCC.	220 OCC.

EXIT ACCESS TRAVEL DISTANCE 1015:
MAXIMUM ALLOWED: 200' MAX. PROVIDED ON FLOOR: 56'-0"

DEAD END CORRIDOR 1016.3:
MAXIMUM ALLOWED: 40' MAX. PROVIDED ON FLOOR: 17'-2"

LINE OF BUILDING ABOVE

EXISTING ADJACENT 2-STORY BUILDING

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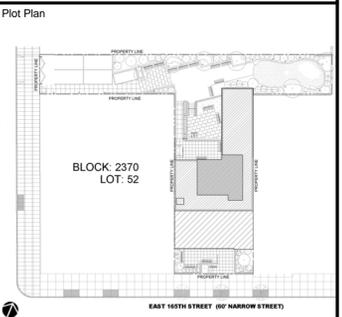
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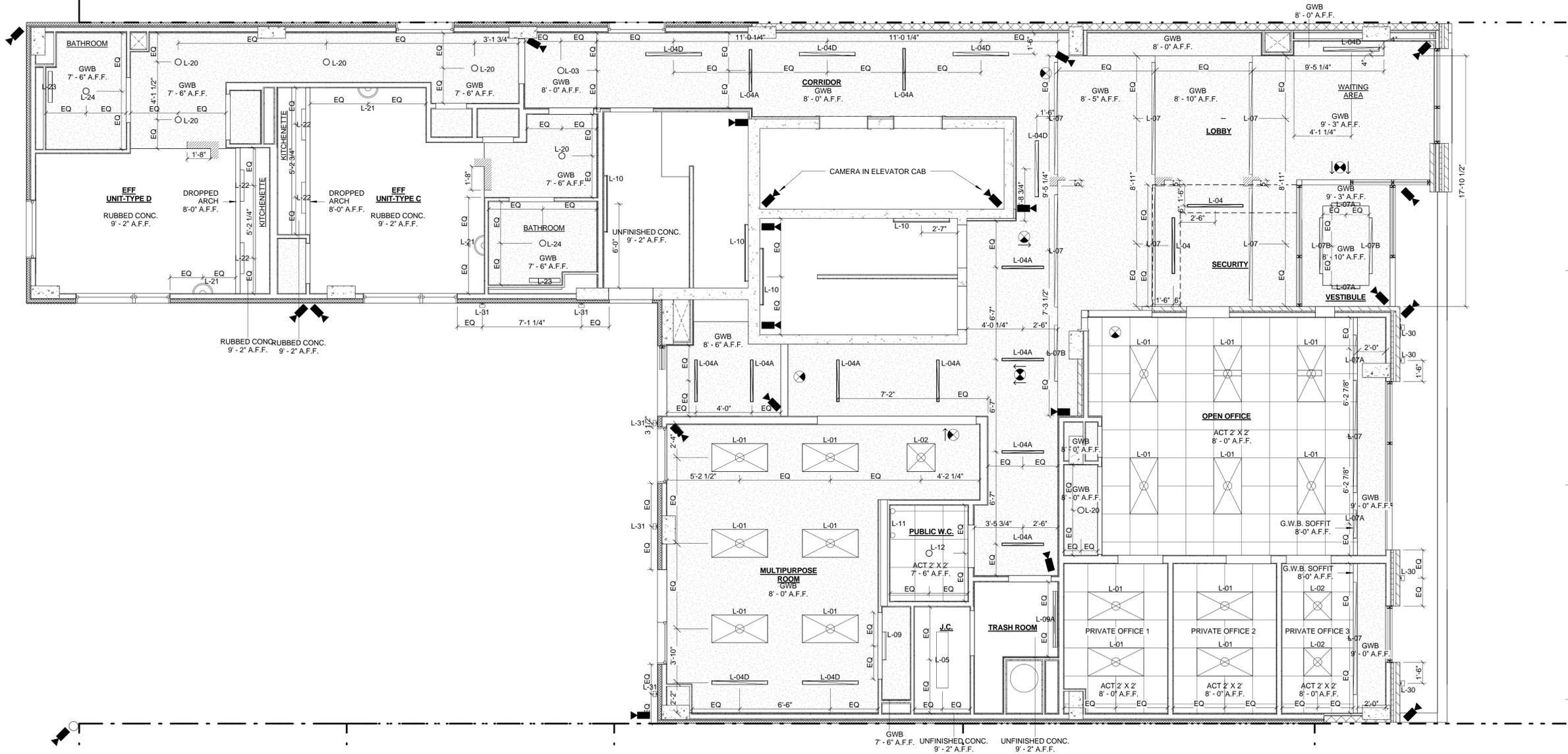


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No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
FIRST FLOOR RCP

Sign & Seal	Job no. 12.08
	Drawn by JPH
	Checked by AM / TS
	Sheet scale As indicated
	Drawing No. A-111.00
Date 01/20/14	DOB sheet 12 OF 49
DOB NUMBER 220211955	



1 FIRST FLOOR RCP
 1/4" = 1'-0"

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-01	[Symbol]	MANF. MODEL: COOPER LIGHTING NEO-RAY FENESTRA 244 (2) 28W T5	2' X 4' @ ACT CEILING	SLOTTED PERFORATION
L-02	[Symbol]	MANF. MODEL: COOPER LIGHTING NEO-RAY FENESTRA 242 (2) 14W T5	2' X 2' @ ACT CEILING	SLOTTED PERFORATION
L-03	[Symbol]	MANF. MODEL: COOPER LIGHTING PORTFOLIO L04A15 LED 1900 LUMEN, 27.3W, 3500K	4" DOWNLIGHT @ CORRIDORS, REFUSE & RECYCLE ROOMS	
L-04	[Symbol]	MANF. MODEL: COOPER LIGHTING NEO-RAY STRAIGHT & NARROW LED LED 2025 LUMEN, 27.3W, 3500K	4" RECESSED STRIP @ PUBLIC AREAS	SHIELDING: SATIN WHITE LENS FLANGLESS FSR AT SHEETROCK
L-04A	[Symbol]	MANF. MODEL: COOPER LIGHTING NEO-RAY STRAIGHT & NARROW LED LED 1600 LUMEN, 25.2W, 3500K	4" RECESSED STRIP @ PUBLIC AREAS	SHIELDING: SATIN WHITE LENS FLANGLESS FSR AT SHEETROCK
L-04D	[Symbol]	MANF. MODEL: COOPER LIGHTING NEO-RAY 23XR GEN2 (1) 28W T5	4" RECESSED WALL WASH @ PUBLIC AREAS	FLANGLESS FSR AT SHEETROCK
L-05	[Symbol]	MANF. MODEL: COOPER LIGHTING METALUX - WHELED LED 5400 LUMEN, 65W, 3500K	4" SURFACE MOUNT @ CELLAR SERVICE AREAS	
L-05A	[Symbol]	MANF. MODEL: COOPER LIGHTING METALUX - WHELED LED 5400 LUMEN, 65W, 3500K	2" SURFACE MOUNT @ TYP. CORRIDORS	
L-06	[Symbol]	MANF. MODEL: COOPER LIGHTING NEO-RAY TRIAD 17-IP (2) 28W T5	SUSPENDED 8" LINEAR PENDANT @ EXERCISE ROOM	DC PENDANT ROUND PERFORATION

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-06A	[Symbol]	MANF. MODEL: COOPER LIGHTING NEO-RAY TRIAD 17-IP (2) 28W T5	SUSPENDED 4" LINEAR PENDANT @ EXERCISE ROOM	DC PENDANT ROUND PERFORATION
L-07	[Symbol]	MANF. MODEL: COOPER LIGHTING METALUX SLED 8600 LUMEN, 96.6W, 3500K	8" STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-07A	[Symbol]	MANF. MODEL: COOPER LIGHTING METALUX SLED 2100 LUMEN, 23.11W, 3500K	2" STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-07B	[Symbol]	MANF. MODEL: COOPER LIGHTING METALUX SLED 8600 LUMEN, 96.6W, 3500K	4" STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-09	[Symbol]	MANF. MODEL: COOPER LIGHTING METALUX 8C (1) 14W T5	2" UTILITY WALL MOUNT @ CELLAR	
L-09A	[Symbol]	MANF. MODEL: COOPER LIGHTING METALUX 8C (1) 14W T5	4" UTILITY WALL MOUNT @ CELLAR, JANITOR CLOSETS	
L-10	[Symbol]	MANF. MODEL: COOPER LIGHTING SURETIES (2) 30W T8	4" SURFACE MOUNT, MOTION-ACTIVATED @ STAIRS	@ LEVEL
L-11	[Symbol]	MANF. MODEL: COOPER LIGHTING SHAPER 891 SERIES (2) 5W T5	36" VERTICAL PUBLIC BATHROOM VANITY WALL LUMINAIRE	NATURAL ALUMINUM FINISH DAMP LOCATION LISTED # 9 SHELF
L-12	[Symbol]	MANF. MODEL: COOPER LIGHTING PORTFOLIO C4026 (1) 28W TTT	4" RECESSED DOWNLIGHT @ PUBLIC BATHROOMS	DAMP LOCATION LISTED

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-21	[Symbol]	MANF. MODEL: PROGRESS LIGHTING P7121 (2) CFC3	WALL MOUNT @ APT UNIT SLEEPING & LIVING AREAS	
L-22	[Symbol]	MANF. MODEL: PROGRESS LIGHTING P7114 (2) 17W T8	27" LINEAR FLOURESCENT @ UNIT KITCHENETTES	
L-22A	[Symbol]	MANF. MODEL: PROGRESS LIGHTING P7114 (2) 17W T8	30" LINEAR FLOURESCENT @ UNIT KITCHENETTES	
L-23	[Symbol]	MANF. MODEL: PROGRESS LIGHTING P7114 (2) 17W T8	27" VANITY LINEAR FLOURESCENT @ UNIT BATHROOMS	DAMP LOCATION LISTED
L-24	[Symbol]	MANF. MODEL: COOPER LIGHTING PORTFOLIO C4026 (1) 28W TTT	4" RECESSED DOWNLIGHT @ APT BATHROOMS	DAMP LOCATION LISTED
L-25	[Symbol]	MANF. MODEL: PROGRESS LIGHTING P7114 (2) 17W T8	27" LINEAR FLOURESCENT @ UNIT ALCOVES	
L-30	[Symbol]	MANF. MODEL: COOPER LIGHTING LUMERE EON 303-W2 LED 17W 3000K	EXTERIOR WALL MOUNT UP/DN LIGHT @ 1ST FL RECESSED FACADE	T4 OPTIC BLACK FINISH
L-31	[Symbol]	MANF. MODEL: COOPER LIGHTING LUMERE EON 303-W1 LED 17W 3000K	EXTERIOR WALL MOUNT ON LIGHT @ 1ST FL REAR FACADE	T4 OPTIC BLACK FINISH
L-32	[Symbol]	MANF. MODEL: COOPER LIGHTING ALL-PRO FFL LED 17W 3000K	EXTERIOR WALL MOUNT @ BULKHEADS	BRONZE FINISH
L-20	[Symbol]	MANF. MODEL: COOPER LIGHTING PORTFOLIO C4026 (1) 28W TTT	4" RECESSED DOWNLIGHT @ APT QUILTS	

LEGEND AND LIGHTING NOTES	
KEY NOTES	LIGHTING NOTES
<p>SYMBOL DESCRIPTION</p> <ul style="list-style-type: none"> [Symbol] SMOKE DETECTOR [Symbol] CARBON MONOXIDE DETECTOR [Symbol] SMOKE DETECTOR WITH ELEVATOR RINGALL [Symbol] ILLUMINATED EXIT LIGHT [Symbol] SHADED AREA INDICATES FACE VIEWED, ARROW AS REQUIRED [Symbol] ELEVATION CHANGE [Symbol] SECURITY CAMERA 	<ol style="list-style-type: none"> PROVIDE EMERGENCY BALLAST (WHERE AVAILABLE INTEGRAL TO THE FIXTURE) WHERE SHOWN ON ELECTRICAL DRAWINGS VOLTAGE AND BALLAST TO BE AS PER ELECTRICAL DRAWINGS / SPECIFICATIONS. ALL BALLASTS TO BE COMPATIBLE WITH OCCUPANCY AND DAYLIGHT SENSOR WERE REQUIRED. PROVIDE ALL ACCESSORIES FOR THE PROPER INSTALLATION AND OPERATION OF FIXTURES. ALL FIXTURES, BALLASTS, AND EMERGENCY BALLASTS TO BE APPROVED FOR USE IN NYC. ALL EXIT SIGN LETTERING TO BE RED AND 6" HIGH. MOUNTING AND TRIM TO BE AS REQUIRED FOR CEILING TYPE SCHEDULED. WIRING FOR LIGHTS LOCATED AT SKIM COATED CONCRETE CEILING TO BE RUN IN CONDUIT CAST IN THE FLOOR SLAB.

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 BRONX, NEW YORK 10456

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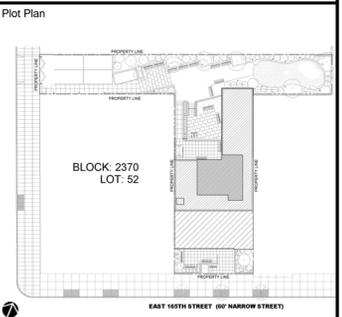
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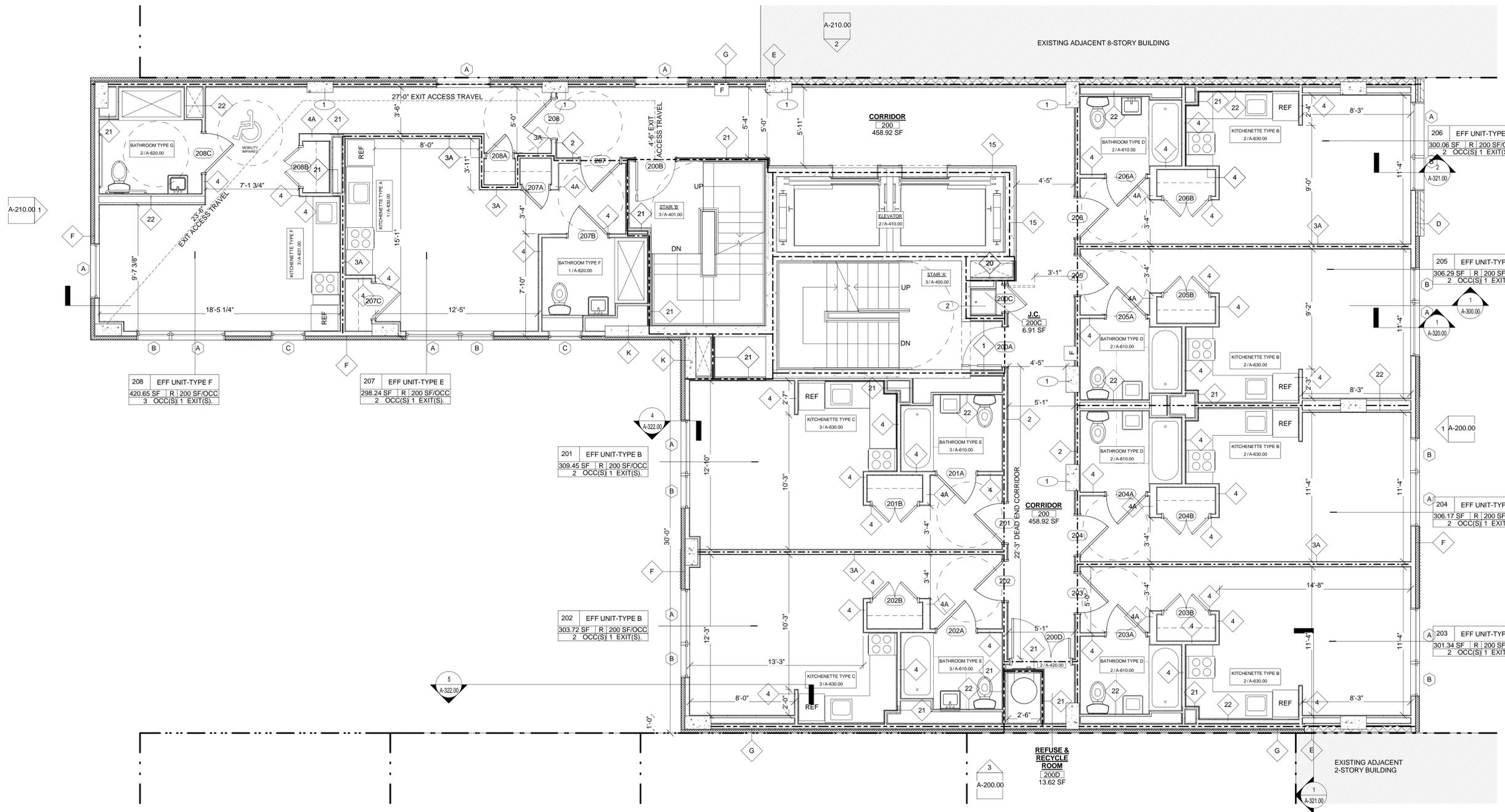
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Issuance Schedule

No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
**TYPICAL FLOORS
 (2ND & 3RD) PLAN**

Sign & Seal	Job no.	12.08
	Drawn by	JPH
Date	Checked by	AM / TS
	Sheet scale	1/4" = 1'-0"
DOB NUMBER	Drawing No.	A-120.00
	Date	01/20/14
	DOB sheet	13 OF 49
		220211955



1 TYPICAL FLOORS (2ND-3RD) PLAN
 1/4" = 1'-0"

SHEET NOTES

KEY NOTES

1 ARCHITECTURAL RUBBED CONCRETE WALL

2 MOP BASIN AND FAUCET PER SPEC

LEGEND

WALLS: 3 HOUR RATED DOORS: 1 1/2 HR FRSC FOR REFUSE COMPACTOR ROOM

WALLS: 2 HOUR RATED DOORS: 1 1/2 HR FRSC GLAZED OPENING: 1 1/2 HR FIRE RATED GLAZING PER UL9, UL10B, UL10C

WALLS: 1 HOUR RATED DOORS: 3/4 HR FRSC

1 WALL TYPE
 -SEE DWG A500.00 FOR INTERIOR WALLS
 -SEE DWG A510.00 FOR EXTERIOR WALLS
 NOTE:
 SEE ELEVATION FOR CHANGES IN WALL FINISH.

ROOM NO.	SQ. FT.	OCC. CLASS	NO. OF OCC.	ROOM NAME	OCC. FACTOR	# REQ. EXITS

NOTE: *DENOTES INCIDENTAL USE

BUILDING CODE ANALYSIS AND NOTES

OCCUPANCY LOADS PER TABLE 1004.1.2:

OCCUPANCY	FACTOR (SF/OCC.)	OCC.	ACTUAL OCC.
RESIDENTIAL	200 GROSS	17	17
MAXIMUM OCCUPANTS: 17			

EXIT CAPACITY PER TABLE 1005.1:

EXIT TYPE	WIDTH	FACTOR	MAX CAPACITY
STAIR A & B	44" Min	.37 / OCC.	146 OCC/STAIR
STAIR A & B DOOR	36"	.27 / OCC.	180 OCC/STAIR DOOR
CORRIDOR	44" Min	.27 / OCC.	220 OCC.

EXIT ACCESS TRAVEL DISTANCE 1015:
 MAXIMUM ALLOWED: 200' MAX. PROVIDED ON FLOOR: 55'-0"

DEAD END CORRIDOR 1016.3:
 MAXIMUM ALLOWED: 40' MAX. PROVIDED ON FLOOR: 23'-3"

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Project
491 E. 165TH STREET
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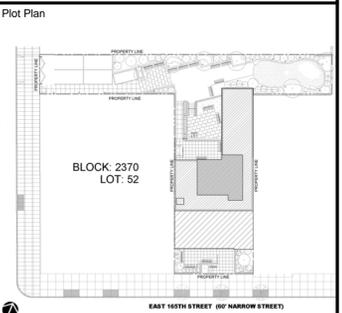
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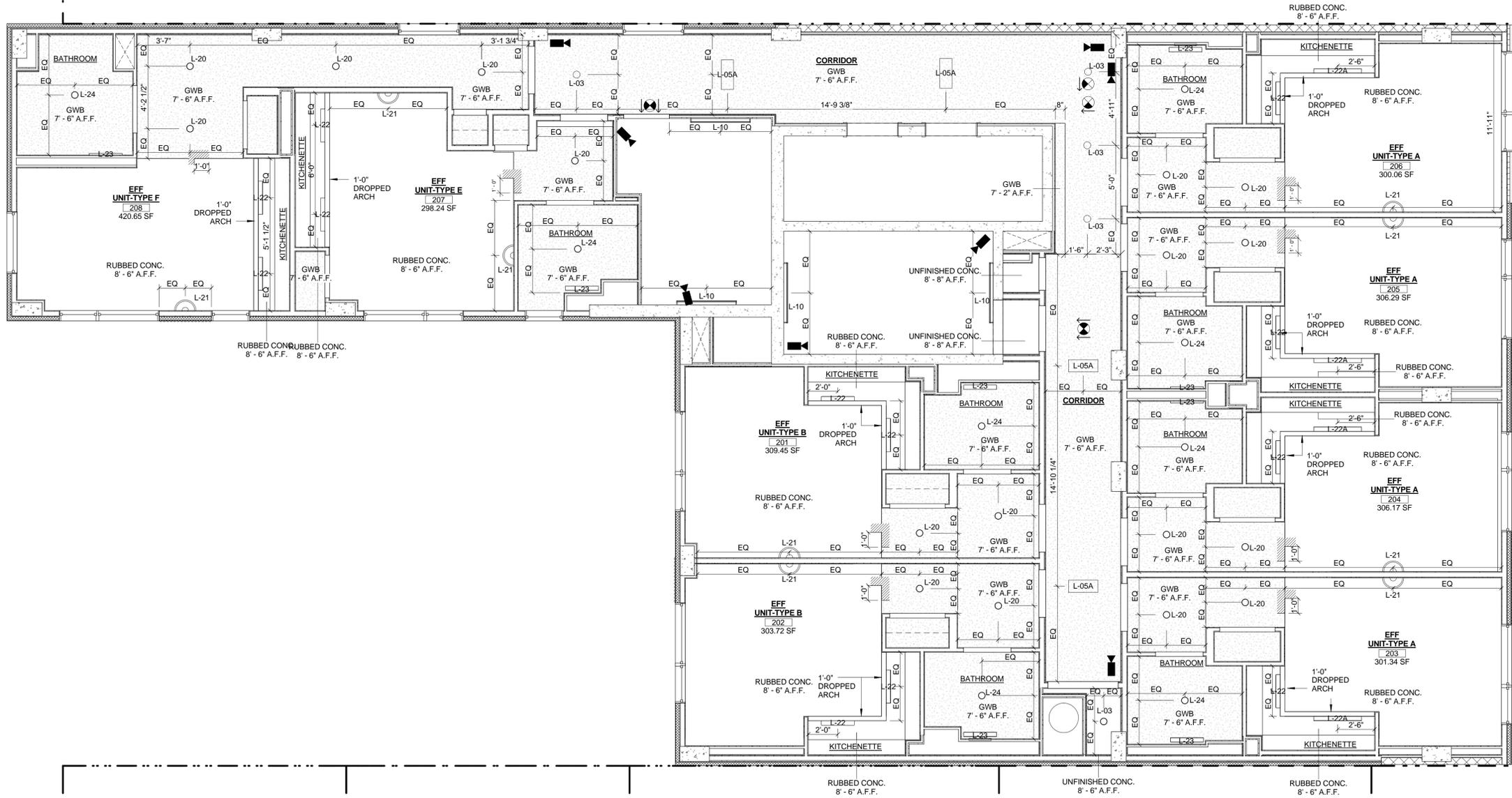
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1 TYPICAL FLOORS (2ND & 3RD) RCP
 1/4" = 1'-0"

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-01		MANF. MODEL: LAMPING: COOPER LIGHTING NEO-RAY FENESTRA 244 (2) 28W T5	2' X 4' @ ACT CEILINGS	SLOTTED PERFORATION
L-02		MANF. MODEL: LAMPING: COOPER LIGHTING NEO-RAY FENESTRA 242 (2) 14W T5	2' X 2' @ ACT CEILINGS	SLOTTED PERFORATION
L-03		MANF. MODEL: LAMPING: COOPER LIGHTING PORTFOLIO L24A18 LED 1800 LUMEN, 3500K	4" DOWNLIGHT @ CORRIDORS, REFUSE & RECYCLE ROOMS	
L-04		MANF. MODEL: LAMPING: COOPER LIGHTING NEO-RAY STRAIGHT & NARROW LED LED 2253 LUMEN, 37.5W, 3500K	4" RECESSED STRIP @ PUBLIC AREAS	SHIELDING: SATIN WHITE LENS FLANGLESS FSR AT SHEETROCK
L-04A		MANF. MODEL: LAMPING: COOPER LIGHTING NEO-RAY 23XR GEN2 (1) 28W T5	3" RECESSED STRIP @ PUBLIC AREAS	SHIELDING: SATIN WHITE LENS FLANGLESS FSR AT SHEETROCK
L-04D		MANF. MODEL: LAMPING: COOPER LIGHTING NEO-RAY 23XR GEN2 (1) 28W T5	4" RECESSED WALL WASH @ PUBLIC AREAS	FLANGLESS FSR AT SHEETROCK
L-05		MANF. MODEL: LAMPING: COOPER LIGHTING METALUX - WHITE LED 5400 LUMEN, 65W, 3500K	4" SURFACE MOUNT @ CELLAR SERVICE AREAS	
L-05A		MANF. MODEL: LAMPING: COOPER LIGHTING METALUX - WHITE LED 5400 LUMEN, 65W, 3500K	2" SURFACE MOUNT @ TYP. CORRIDORS	
L-06		MANF. MODEL: LAMPING: COOPER LIGHTING NEO-RAY TRIAD 17-P (2) 28W T5	SUSPENDED 8" LINEAR PENDANT @ EXERCISE ROOM	DC PENDANT ROUND PERFORATION

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-06A		MANF. MODEL: LAMPING: COOPER LIGHTING NEO-RAY TRIAD 17-P (2) 28W T5	SUSPENDED 8" LINEAR PENDANT @ EXERCISE ROOM	DC PENDANT ROUND PERFORATION
L-07		MANF. MODEL: LAMPING: COOPER LIGHTING METALUX SLED 2600 LUMEN, 96.6W, 3500K	6" STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-07A		MANF. MODEL: LAMPING: COOPER LIGHTING METALUX SLED 2600 LUMEN, 96.6W, 3500K	2" STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-07B		MANF. MODEL: LAMPING: COOPER LIGHTING METALUX SLED 2600 LUMEN, 96.6W, 3500K	4" STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-09		MANF. MODEL: LAMPING: COOPER LIGHTING METALUX 8C (1) 14W T5	2" UTILITY WALL MOUNT @ CELLAR	
L-09A		MANF. MODEL: LAMPING: COOPER LIGHTING METALUX 8C (1) 14W T5	4" UTILITY WALL MOUNT @ CELLAR, JANITOR CLOSETS	
L-10		MANF. MODEL: LAMPING: COOPER LIGHTING SURE-LITES (2) 30W T8	4" SURFACE MOUNT, MOTION-ACTIVATED @ STAIRS	BI-LEVEL
L-11		MANF. MODEL: LAMPING: COOPER LIGHTING SHOWER 801 SERIES (2) 25W T8	36" VERTICAL PUBLIC BATHROOM VANITY WALL LUMINAIRE	NATURAL ALUMINUM FINISH (DAMP LOCATION LISTED 4" SHELF)
L-12		MANF. MODEL: LAMPING: COOPER LIGHTING PORTFOLIO C4026 (1) 28W TTT	4" RECESSED DOWNLIGHT @ PUBLIC BATHROOMS	DAMP LOCATION LISTED

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-21		MANF. MODEL: LAMPING: PROGRESS LIGHTING P7121 (2) CF13	WALL MOUNT @ APT UNIT SLEEPING & LIVING AREAS	
L-22		MANF. MODEL: LAMPING: PROGRESS LIGHTING P7114 (2) 17W T8	27" LINEAR FLOURESCENT @ UNIT KITCHENETTES	
L-22A		MANF. MODEL: LAMPING: PROGRESS LIGHTING P7114 (2) 25W T8	30" LINEAR FLOURESCENT @ UNIT KITCHENETTES	
L-23		MANF. MODEL: LAMPING: PROGRESS LIGHTING P7114 (2) 17W T8	27" VANITY LINEAR FLOURESCENT @ UNIT BATHROOMS	DAMP LOCATION LISTED
L-24		MANF. MODEL: LAMPING: COOPER LIGHTING PORTFOLIO C4026 (1) 28W TTT	4" RECESSED DOWNLIGHT @ APT BATHROOMS	DAMP LOCATION LISTED
L-25		MANF. MODEL: LAMPING: PROGRESS LIGHTING P7114 (2) 17W T8	27" LINEAR FLOURESCENT @ UNIT ALCOVES	
L-30		MANF. MODEL: LAMPING: COOPER LIGHTING LUMIERE EON 303-W2 LED 17W 3000K	EXTERIOR WALL MOUNT UP/DN LIGHT @ 1ST FL RECESSED FACADE	T4 OPTIC BLACK FINISH
L-31		MANF. MODEL: LAMPING: COOPER LIGHTING LUMIERE EON 303-W1 LED 17W 3000K	EXTERIOR WALL MOUNT DN LIGHT @ 1ST FL REAR FACADE	T4 OPTIC BLACK FINISH
L-32		MANF. MODEL: LAMPING: COOPER LIGHTING NEO-RAY FENESTRA 244 (2) 28W T5	EXTERIOR WALL MOUNT @ BULKHEADS	BRONZE FINISH
L-20		MANF. MODEL: LAMPING: COOPER LIGHTING PORTFOLIO C4026 (1) 28W TTT	4" RECESSED DOWNLIGHT @ APT UNITS	

LEGEND AND LIGHTING NOTES	
KEY NOTES	LIGHTING NOTES
<p>SYMBOL DESCRIPTION</p> <ul style="list-style-type: none"> SMOKE DETECTOR CARBON MONOXIDE DETECTOR SMOKE DETECTOR WITH ELEVATOR RECALL ILLUMINATED EXIT LIGHT SHADED AREA INDICATES FACE VIEWED, ARROW AS REQUIRED ELEVATION CHANGE SECURITY CAMERA GWB BOXOUT FOR SPRINKLER HEAD TYPICAL AT ALL UNITS TO BE KEPT AT MIN. DEPTH REQUIRED, COORDINATE WITH SPRINKLER DRAWINGS 	<ol style="list-style-type: none"> PROVIDE EMERGENCY BALLAST (WHERE AVAILABLE INTEGRAL TO THE FIXTURE) WHERE SHOWN ON ELECTRICAL DRAWINGS VOLTAGE AND BALLAST TO BE AS PER ELECTRICAL DRAWINGS / SPECIFICATIONS. ALL BALLASTS TO BE COMPATIBLE WITH OCCUPANCY AND DAYLIGHT SENSOR WERE REQUIRED. PROVIDE ALL ACCESSORIES FOR THE PROPER INSTALLATION AND OPERATION OF FIXTURES. ALL FIXTURES, BALLASTS, AND EMERGENCY BALLASTS TO BE APPROVED FOR USE IN NYC. ALL EXIT SIGN LETTERING TO BE RED AND 6" HIGH. MOUNTING AND TRIM TO BE AS REQUIRED FOR CEILING TYPE SCHEDULED. WIRING FOR LIGHTS LOCATED AT SKIM COATED CONCRETE CEILING TO BE RUN IN CONDUIT CAST IN THE FLOOR SLAB.

Issuance Schedule		
No.	Date	Description
1	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
2	01/20/2014	DOB SUBMISSION
3		
4		
5		
6		
7		
8		

Drawing Title
TYPICAL FLOORS (2ND & 3RD) RCP

Sign & Seal	Job no. 12.08
	Drawn by JPH
	Checked by AM / TS
	Sheet scale As indicated
	Drawing No. A-121.00
Date 01/20/14	DOB sheet 14 OF 49
DOB NUMBER 220211955	

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Project
491 E. 165TH STREET
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 Owner
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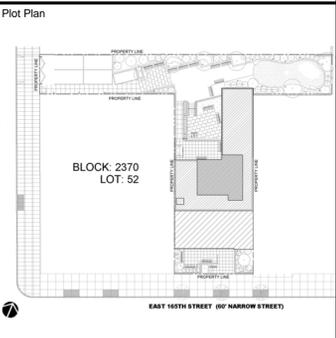
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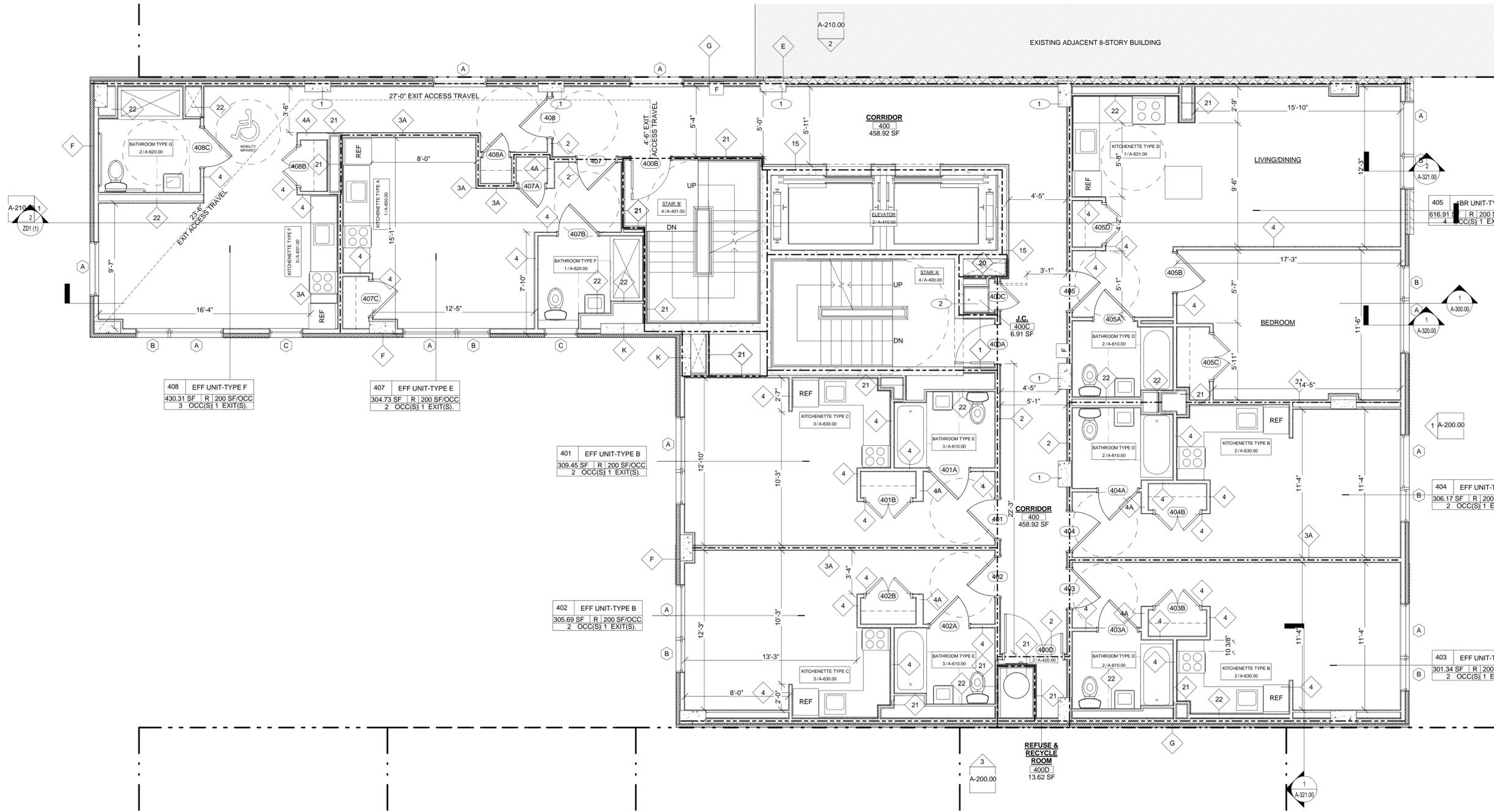
Issuance Schedule

No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
FOURTH FLOOR PLAN

Sign & Seal

Job no.	12.08
Drawn by	JPH
Checked by	AM / TS
Sheet scale	1/4" = 1'-0"
Drawing No.	A-130.00
Date	01/20/14
DOB sheet	15 OF 49
DOB NUMBER	220211955



① FOURTH FLOOR PLAN
 1/4" = 1'-0"

SHEET NOTES

KEY NOTES

1 ARCHITECTURAL RUBBED CONCRETE WALL
 2 MOP BASIN AND FAUCET PER SPEC

LEGEND

WALLS: 3 HOUR RATED DOORS: 1 1/2 HR FRSC FOR REFUSE COMPACTOR ROOM
 WOOD: 2 HOUR RATED DOORS: 1 1/2 HR FRSC GLAZED OPENINGS: 1 1/2 HR FIRE RATED GLAZING PER ULS, UL10B, UL10C
 WALLS: 1 HOUR RATED DOORS: 3/4 HR FRSC

WALL TYPE
 -SEE DWG A500.00 FOR INTERIOR WALLS
 -SEE DWG A510.00 FOR EXTERIOR WALLS
 NOTE: SEE ELEVATION FOR CHANGES IN WALL FINISH.

ROOM NO.	SQ. FT.	OCC. CLASS	NO. OF OCC./ACTUAL	ROOM NAME	OCC. FACTOR	# REQ. EXITS

① ILLUMINATED EXIT LIGHT. SHADED AREA INDICATES FACE VIEWED. ARROW AS SHOWN.
 F RECESSED FIRE EXTINGUISHER
 SMOKE DETECTOR ELEVATOR RECALL
 SMOKE DETECTOR CO2 DETECTOR
 REF. FIRST FLOOR T.O. SLAB EL 0'-0" WHICH EQUALS 28.90' SURVEY EL. SHOWN AS (X.X)
 FD FLOOR DRAIN

BUILDING CODE ANALYSIS AND NOTES

OCCUPANCY LOADS PER TABLE 1004.1.2:

OCCUPANCY	FACTOR (SF/OCC.)	OCC.	ACTUAL OCC.
RESIDENTIAL	200 GROSS	17	17
MAXIMUM OCCUPANTS: 17			

EXIT CAPACITY PER TABLE 1005.1:

EXIT TYPE	WIDTH	FACTOR	MAX CAPACITY
STAIR A & B	44" Min	.37 / OCC.	146 OCC/STAIR
STAIR A & B DOOR	36"	.2 / OCC.	180 OCC/STAIR DOOR
CORRIDOR	44" Min	.2 / OCC.	220 OCC.

EXIT ACCESS TRAVEL DISTANCE 1015:
 MAXIMUM ALLOWED: 200' MAX. PROVIDED ON FLOOR: 55'-0"

DEAD END CORRIDOR 1016.3:
 MAXIMUM ALLOWED: 40' MAX. PROVIDED ON FLOOR: 23'-3"

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 BRONX, NEW YORK 10456

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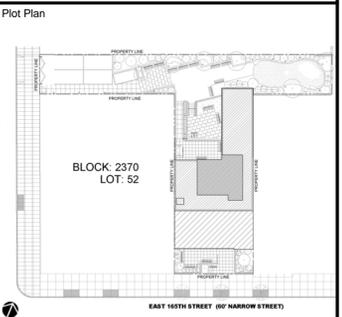
MEP ENGINEER
EMTG CONSULTANTS, INC
 115 W 30TH STREET STE 202, NEW YORK, NY 10001

CIVIL ENGINEER
MICHAEL WEIN, PE
 135 COUNTRY CLUB DR, MONROE TWP, NJ 08831

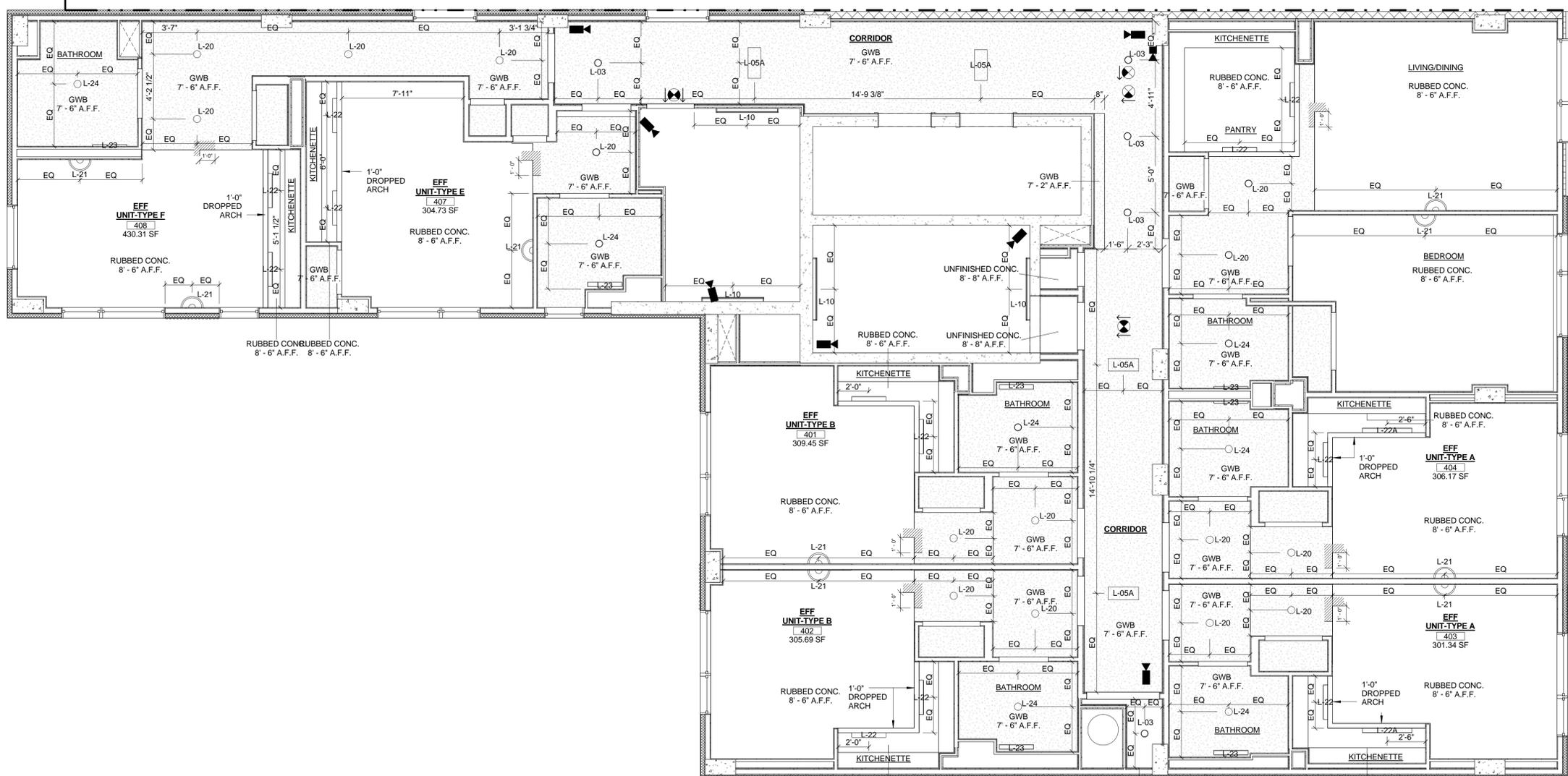
LANDSCAPE ARCHITECT:
LIZ FARRELL LANDSCAPE ARCHITECTURE, PLLC
 523 6TH AVENUE, BROOKLYN, NY 11215

CODE CONSULTANT
DESIGN 2147, LTD
 52 DIAMOND STREET, BROOKLYN, NY 11222

ESTIMATOR
CHAM ESTIMATING SERVICE
 1 VANDERWATER CT, EAST BRUNSWICK, NJ 08816



For Department of Buildings Use



① FOURTH FLOOR RCP
 1/4" = 1'-0"

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-01		MANF. MODEL: COOPER LIGHTING NEO-RAY TRIAD 244 (2) 28W T5	2' x 4' @ ACT CEILINGS	SLOTTED PERFORATION
L-02		MANF. MODEL: COOPER LIGHTING NEO-RAY TRIAD 242 (2) 14W T5	2' x 2' @ ACT CEILINGS	SLOTTED PERFORATION
L-03		MANF. MODEL: COOPER LIGHTING PORTFOLIO L24418 LED 1800 LUMEN, 3500K	4" DOWNLIGHT @ CORRIDORS, REFUSE & RECYCLE ROOMS	
L-04		MANF. MODEL: COOPER LIGHTING NEO-RAY STRAIGHT & NARROW LED LED 1800 LUMEN, 3500K	4" RECESSED STRIP @ PUBLIC AREAS	SHIELDING: SATIN WHITE LENS FLANGLESS FSR AT SHEETROCK
L-04A		MANF. MODEL: COOPER LIGHTING NEO-RAY STRAIGHT & NARROW LED LED 1800 LUMEN, 3500K	3" RECESSED STRIP @ PUBLIC AREAS	SHIELDING: SATIN WHITE LENS FLANGLESS FSR AT SHEETROCK
L-04D		MANF. MODEL: COOPER LIGHTING NEO-RAY 23XR GEN2 (1) 28W T5	4" RECESSED WALL WASH @ PUBLIC AREAS	FLANGLESS FSR AT SHEETROCK
L-05		MANF. MODEL: COOPER LIGHTING METALUX - W/LEDS LED 5400 LUMEN, 3500K	4" SURFACE MOUNT @ CELLAR SERVICE AREAS	
L-05A		MANF. MODEL: COOPER LIGHTING METALUX - W/LEDS LED 5400 LUMEN, 3500K	2" SURFACE MOUNT @ TYP. CORRIDORS	
L-06		MANF. MODEL: COOPER LIGHTING NEO-RAY TRIAD 17-IP (2) 28W T5	SUSPENDED 8" LINEAR PENDANT @ EXERCISE ROOM	DC PENDANT ROUND PERFORATION

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-06A		MANF. MODEL: COOPER LIGHTING NEO-RAY TRIAD 17-IP (2) 28W T5	SUSPENDED 8" LINEAR PENDANT @ EXERCISE ROOM	DC PENDANT ROUND PERFORATION
L-07		MANF. MODEL: COOPER LIGHTING METALUX SLED 8600 LUMEN, 96.6W, 3500K	8" STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-07A		MANF. MODEL: COOPER LIGHTING METALUX SLED 2400 LUMEN, 23.11W, 3500K	2" STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-07B		MANF. MODEL: COOPER LIGHTING METALUX SLED 3000 LUMEN, 49.8W, 3500K	4" STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-09		MANF. MODEL: COOPER LIGHTING METALUX BC (1) 14W T5	2" UTILITY WALL MOUNT @ CELLAR	
L-09A		MANF. MODEL: COOPER LIGHTING METALUX BC (1) 14W T5	4" UTILITY WALL MOUNT @ CELLAR, JANITOR CLOSETS	
L-10		MANF. MODEL: COOPER LIGHTING SURE LITES (2) 30W T8	4" SURFACE MOUNT, MOTION-ACTIVATED @ STAIRS	8" LEVEL
L-11		MANF. MODEL: COOPER LIGHTING SHAPER 801 SERIES (2) 25W T8	36" VERTICAL PUBLIC BATHROOM VANITY WALL LUMINAIRE	NATURAL ALUMINUM FINISH DAMP LOCATION LISTED 4" SHELF
L-12		MANF. MODEL: COOPER LIGHTING PORTFOLIO C4026 (1) 28W TTT	4" RECESSED DOWNLIGHT @ PUBLIC BATHROOMS	DAMP LOCATION LISTED

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-21		MANF. MODEL: PROGRESS LIGHTING P7121 (2) 0' x 3'	WALL MOUNT @ APT UNIT SLEEPING & LIVING AREAS	
L-22		MANF. MODEL: PROGRESS LIGHTING P7114 (2) 17W T8	27" LINEAR FLOURESCENT @ UNIT KITCHENETTES	
L-22A		MANF. MODEL: PROGRESS LIGHTING P7114 (2) 20W T8	30" LINEAR FLOURESCENT @ UNIT KITCHENETTES	
L-23		MANF. MODEL: PROGRESS LIGHTING P7114 (2) 17W T8	27" VANITY LINEAR FLOURESCENT @ UNIT BATHROOMS	DAMP LOCATION LISTED
L-24		MANF. MODEL: COOPER LIGHTING PORTFOLIO C4026 (1) 28W TTT	4" RECESSED DOWNLIGHT @ APT BATHROOMS	DAMP LOCATION LISTED
L-25		MANF. MODEL: PROGRESS LIGHTING P7114 (2) 17W T8	27" LINEAR FLOURESCENT @ UNIT ALCOVES	
L-30		MANF. MODEL: COOPER LIGHTING LUMERE EON 303-W2 LED 17W 3000K	EXTERIOR WALL MOUNT UP/DN LIGHT @ 1ST FL RECESSED FACADE	T4 OPTIC BLACK FINISH
L-31		MANF. MODEL: COOPER LIGHTING LUMERE EON 303-W1 LED 17W 3000K	EXTERIOR WALL MOUNT ON LIGHT @ 1ST FL REAR FACADE	T4 OPTIC BLACK FINISH
L-32		MANF. MODEL: COOPER LIGHTING ALL-PRO FFE LED 11W 3000K	EXTERIOR WALL MOUNT @ BULKHEADS	BRONZE FINISH
L-20		MANF. MODEL: COOPER LIGHTING PORTFOLIO C4026 (1) 28W TTT	4" RECESSED DOWNLIGHT @ APT UNITS	

LEGEND AND LIGHTING NOTES	
KEY NOTES	LIGHTING NOTES
<p>SYMBOL DESCRIPTION</p> <ul style="list-style-type: none"> SMOKE DETECTOR CARBON MONOXIDE DETECTOR SMOKE DETECTOR WITH ELEVATOR RECALL ILLUMINATED EXIT LIGHT SHADED AREA INDICATES FACE VIEWED, ARROW AS REQUIRED ELEVATION CHANGE SECURITY CAMERA GWB BOXOUT FOR SPRINKLER HEAD TYPICAL AT ALL UNITS TO BE KEPT AT MIN. DEPTH REQUIRED. COORDINATE WITH SPRINKLER DRAWINGS 	<ol style="list-style-type: none"> PROVIDE EMERGENCY BALLAST (WHERE AVAILABLE INTEGRAL TO THE FIXTURE) WHERE SHOWN ON ELECTRICAL DRAWINGS VOLTAGE AND BALLAST TO BE AS PER ELECTRICAL DRAWINGS / SPECIFICATIONS. ALL BALLASTS TO BE COMPATIBLE WITH OCCUPANCY AND DAYLIGHT SENSOR WERE REQUIRED. PROVIDE ALL ACCESSORIES FOR THE PROPER INSTALLATION AND OPERATION OF FIXTURES. ALL FIXTURES, BALLASTS, AND EMERGENCY BALLASTS TO BE APPROVED FOR USE IN NYC. ALL EXIT SIGN LETTERING TO BE RED AND 6" HIGH. MOUNTING AND TRIM TO BE AS REQUIRED FOR CEILING TYPE SCHEDULED. WIRING FOR LIGHTS LOCATED AT SKIM COATED CONCRETE CEILING TO BE RUN IN CONDUIT CAST IN THE FLOOR SLAB.

Issuance Schedule		
No.	Date	Description
12/16/2013	DESIGN DEVELOPMENT SUBMITTAL	
01/20/2014	DOB SUBMISSION	

Drawing Title
FOURTH FLOOR RCP

Sign & Seal	Job no. 12.08
	Drawn by JPH
	Checked by AM / TS
	Sheet scale As indicated
Drawing No. A-131.00	
Date 01/20/14	DOB sheet 16 OF 49
DOB NUMBER 220211955	

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Project
491 E. 165TH STREET
 BRONX, NEW YORK 10456
 Owner
PSCH, INC / CHRISTA
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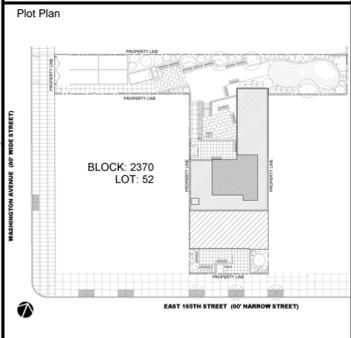
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MICHAEL WEIN, PE
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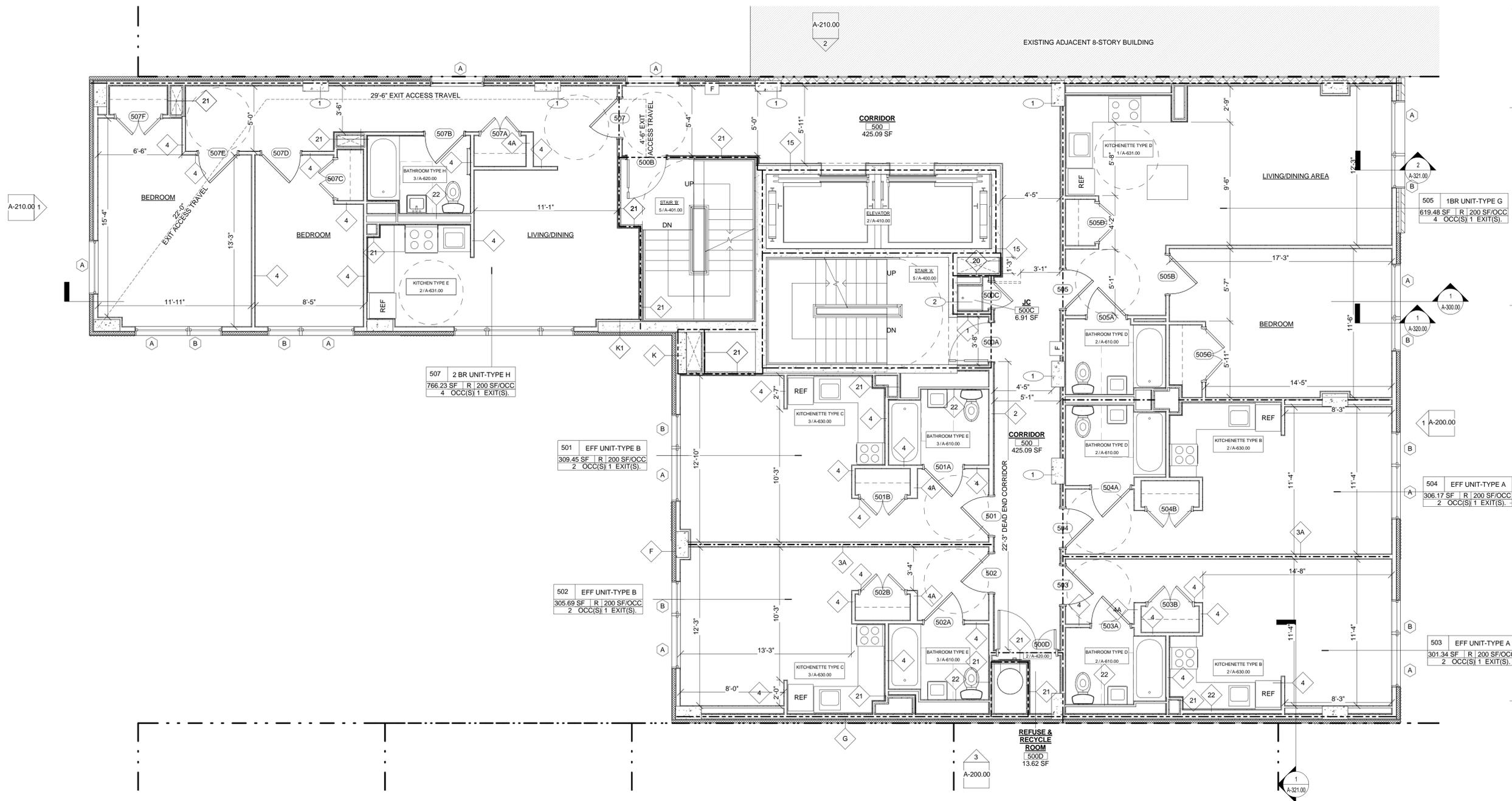


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Issuance Schedule		
No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
TYPICAL FLOORS (5TH & 9TH) PLAN

Sign & Seal	Job no.	12.08
	Drawn by	JPH
Date	Checked by	AM / TS
	Sheet scale	1/4" = 1'-0"
DOB NUMBER	Drawing No.	A-140.00
	Date	01/20/14
	DOB sheet	17 OF 49
		220211955



1 TYPICAL FLOORS (5th-9th) PLAN
 1/4" = 1'-0"

SHEET NOTES

KEY NOTES

1 ARCHITECTURAL RUBBED CONCRETE WALL

2 MOP BASIN AND FAUCET PER SPEC

LEGEND

WALLS: 3 HOUR RATED DOORS: 1 1/2 HR FRSC FOR REFUSE COMPACTOR ROOM

WALLS: 2 HOUR RATED DOORS: 1 1/2 HR FRSC GLAZED OPENING: 1 1/2 HR FIRE RATED GLAZING PER U.L.S. UL10B, UL10C

WALLS: 1 HOUR RATED DOORS: 3/4 HR FRSC

1 WALL TYPE
 -SEE DWG A500.00 FOR INTERIOR WALLS
 -SEE DWG A510.00 FOR EXTERIOR WALLS
 NOTE:
 SEE ELEVATION FOR CHANGES IN WALL FINISH.

ROOM NO.	SQ. FT.	OCC. CLASS	NO. OF OCC./ACTUAL	ROOM NAME	OCC. FACTOR	# REQ. EXITS

*DENOTES INCIDENTAL USE

ILLUMINATED EXIT LIGHT. SHADED AREA INDICATES FACE VIEWED. ARROW AS SHOWN.

F RECESSED FIRE EXTINGUISHER

SMOKE DETECTOR ELEVATOR RECALL

SMOKE DETECTOR CO2 DETECTOR

REF. FIRST FLOOR T.O. SLAB EL 0'-0" WHICH EQUALS 28.90' SURVEY EL. SHOWN AS (X.X)

FD FLOOR DRAIN

BUILDING CODE ANALYSIS AND NOTES

OCCUPANCY LOADS PER TABLE 1004.1.2:

OCCUPANCY	FACTOR (SF/OCC.)	OCC.	ACTUAL OCC.
RESIDENTIAL	200 GROSS	16	16
MAXIMUM OCCUPANTS:			16

EXIT CAPACITY PER TABLE 1005.1:

EXIT TYPE	WIDTH	FACTOR	MAX CAPACITY
STAIR A & B	44" Min	.37 / OCC.	146 OCC/STAIR
STAIR A & B DOOR	36"	.27 / OCC.	180 OCC/STAIR DOOR
CORRIDOR	44" Min	.27 / OCC.	220 OCC.

EXIT ACCESS TRAVEL DISTANCE 1015:
 MAXIMUM ALLOWED: 200' MAX. PROVIDED ON FLOOR: 56'-0"

DEAD END CORRIDOR 1016.3:
 MAXIMUM ALLOWED: 40' MAX. PROVIDED ON FLOOR: 23'-3"

Project
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 Owner
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NEW YORK STATE
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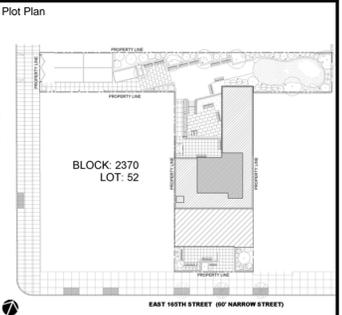
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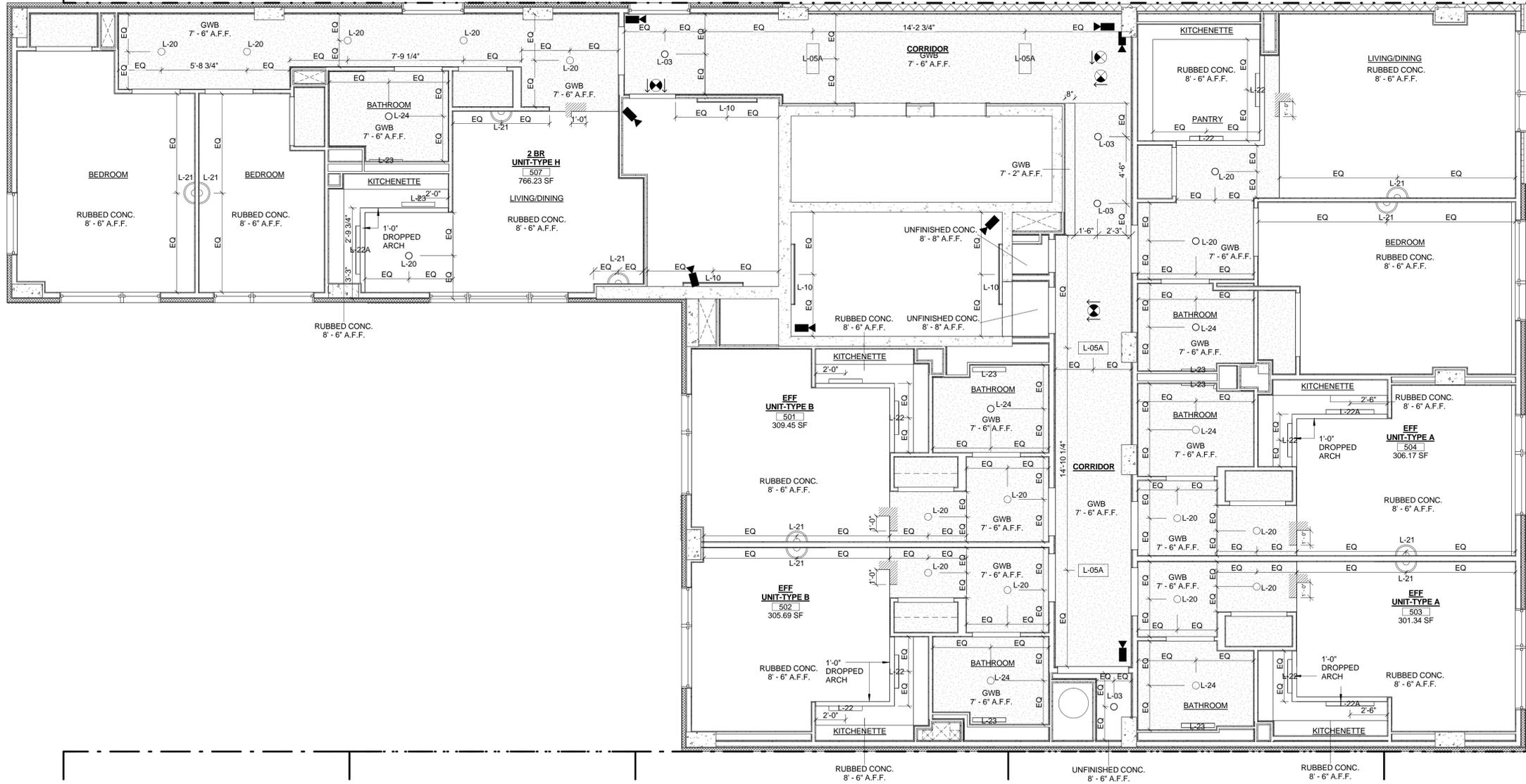
LANDSCAPE ARCHITECT:
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For Department of Buildings Use



1 TYPICAL FLOORS (5TH & 9TH) RCP
 1/4" = 1'-0"

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-01		MANF.: COOPER LIGHTING MODEL: NEO-RAY FENESTRA 244 LAMPING: (2) 28W T5	2' x 4' @ ACT CEILINGS	SLOTTED PERFORATION
L-02		MANF.: COOPER LIGHTING MODEL: NEO-RAY FENESTRA 242 LAMPING: (2) 14W T5	2' x 2' @ ACT CEILINGS	SLOTTED PERFORATION
L-03		MANF.: COOPER LIGHTING MODEL: PORTFOLIO L24A15 LED 1800 LUMEN, 3500K	4" DOWNLIGHT @ CORRIDORS, REFUSE & RECYCLE ROOMS	
L-04		MANF.: COOPER LIGHTING MODEL: NEO-RAY STRAIGHT & NARROW LED LED 2253 LUMEN, 37.5W, 3500K	4" RECESSED STRIP @ PUBLIC AREAS	SHIELDING: SATIN WHITE LENS FLANGLESS FSR AT SHEETROCK
L-04A		MANF.: COOPER LIGHTING MODEL: NEO-RAY STRAIGHT & NARROW LED LED 1600 LUMEN, 28.2W, 3500K	3" RECESSED STRIP @ PUBLIC AREAS	SHIELDING: SATIN WHITE LENS FLANGLESS FSR AT SHEETROCK
L-04D		MANF.: COOPER LIGHTING MODEL: NEO-RAY 23XR GEN2 LED 28W T5	4" RECESSED WALL WASH @ PUBLIC AREAS	FLANGLESS FSR AT SHEETROCK
L-05		MANF.: COOPER LIGHTING MODEL: METALUX - W/LEDS LED 5400 LUMEN, 65W, 3500K	4" SURFACE MOUNT @ CELLAR SERVICE AREAS	
L-05A		MANF.: COOPER LIGHTING MODEL: METALUX - W/LEDS LED 2700 LUMEN, 32W, 3500K	2" SURFACE MOUNT @ TYP. CORRIDORS	
L-06		MANF.: COOPER LIGHTING MODEL: NEO-RAY TRIAD 17-IP (2) 28W T5	SUSPENDED 8" LINEAR PENDANT @ EXERCISE ROOM	DC PENDANT ROUND PERFORATION

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-06A		MANF.: COOPER LIGHTING MODEL: NEO-RAY TRIAD 17-IP (2) 28W T5	SUSPENDED 8" LINEAR PENDANT @ EXERCISE ROOM	DC PENDANT ROUND PERFORATION
L-07		MANF.: COOPER LIGHTING MODEL: METALUX SLID 8600 LUMEN, 96.6W, 3500K	6" STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-07A		MANF.: COOPER LIGHTING MODEL: METALUX SLID 2400 LUMEN, 23.11W, 3500K	2" STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-07B		MANF.: COOPER LIGHTING MODEL: METALUX SLID 500 LUMEN, 49.8W, 3500K	4" STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-09		MANF.: COOPER LIGHTING MODEL: METALUX 8C (1) 14W T5	2" UTILITY WALL MOUNT @ CELLAR	
L-09A		MANF.: COOPER LIGHTING MODEL: METALUX 8C (1) 14W T5	4" UTILITY WALL MOUNT @ CELLAR, JANITOR CLOSETS	
L-10		MANF.: COOPER LIGHTING MODEL: SURELITES (2) 30W T8	4" SURFACE MOUNT, MOTION-ACTIVATED @ STAIRS	BLEVEL
L-11		MANF.: COOPER LIGHTING MODEL: SHAPER 801 SERIES (2) 25W T8	36" VERTICAL PUBLIC BATHROOM VANITY WALL LUMINAIRE	NATURAL ALUMINUM FINISH DAMP LOCATION LISTED 4" SHELF
L-12		MANF.: COOPER LIGHTING MODEL: PORTFOLIO C4026 (1) 28W TTT	4" RECESSED DOWNLIGHT @ PUBLIC BATHROOMS	DAMP LOCATION LISTED

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-21		MANF.: PROGRESS LIGHTING MODEL: P7121 (2) CF13	WALL MOUNT @ APT UNIT SLEEPING & LIVING AREAS	
L-22		MANF.: PROGRESS LIGHTING MODEL: P7114 (2) 17W T8	27" LINEAR FLOURESCENT @ UNIT KITCHENETTES	
L-22A		MANF.: PROGRESS LIGHTING MODEL: P7114 (2) 20W T8	30" LINEAR FLOURESCENT @ UNIT KITCHENETTES	
L-23		MANF.: PROGRESS LIGHTING MODEL: P7114 (2) 17W T8	27" VANITY LINEAR FLOURESCENT @ UNIT BATHROOMS	DAMP LOCATION LISTED
L-24		MANF.: COOPER LIGHTING MODEL: PORTFOLIO C4026 (1) 28W TTT	4" RECESSED DOWNLIGHT @ APT BATHROOMS	DAMP LOCATION LISTED
L-25		MANF.: PROGRESS LIGHTING MODEL: P7114 (2) 17W T8	27" LINEAR FLOURESCENT @ UNIT ALCOVES	
L-30		MANF.: COOPER LIGHTING MODEL: LUMIERE EON 303-W2 LED 17W 3000K	EXTERIOR WALL MOUNT UPDN LIGHT @ 1ST FL RECESSED FACADE	T4 OPTIC BLACK FINISH
L-31		MANF.: COOPER LIGHTING MODEL: LUMIERE EON 303-W1 LED 17W 3000K	EXTERIOR WALL MOUNT ON LIGHT @ 1ST FL REAR FACADES	T4 OPTIC BLACK FINISH
L-32		MANF.: COOPER LIGHTING MODEL: ALL-PRO FE LED 11W 3000K	EXTERIOR WALL MOUNT @ BULKHEADS	BRONZE FINISH
L-20		MANF.: COOPER LIGHTING MODEL: PORTFOLIO C4026 (1) 28W TTT	4" RECESSED DOWNLIGHT @ APT @ITS	

LEGEND AND LIGHTING NOTES	
KEY NOTES	LIGHTING NOTES
<p> SMOKE DETECTOR</p> <p> CARBON MONOXIDE DETECTOR</p> <p> SMOKE DETECTOR WITH ELEVATOR RECALL</p> <p> ILLUMINATED EXIT LIGHT</p> <p> SHADED AREA INDICATES FACE VIEWED, ARROW AS REQUIRED</p> <p> ELEVATION CHANGE</p> <p> SECURITY CAMERA</p> <p> GWB BOXOUT FOR SPRINKLER HEAD TYPICAL AT ALL UNITS TO BE KEPT AT MIN. DEPTH REQUIRED. COORDINATE WITH SPRINKLER DRAWINGS</p>	<ol style="list-style-type: none"> PROVIDE EMERGENCY BALLAST (WHERE AVAILABLE INTEGRAL TO THE FIXTURE) WHERE SHOWN ON ELECTRICAL DRAWINGS VOLTAGE AND BALLAST TO BE AS PER ELECTRICAL DRAWINGS / SPECIFICATIONS. ALL BALLASTS TO BE COMPATIBLE WITH OCCUPANCY AND DAYLIGHT SENSOR WERE REQUIRED. PROVIDE ALL ACCESSORIES FOR THE PROPER INSTALLATION AND OPERATION OF FIXTURES. ALL FIXTURES, BALLASTS, AND EMERGENCY BALLASTS TO BE APPROVED FOR USE IN NYC. ALL EXIT SIGN LETTERING TO BE RED AND 6" HIGH. MOUNTING AND TRIM TO BE AS REQUIRED FOR CEILING TYPE SCHEDULED. WIRING FOR LIGHTS LOCATED AT SKIM COATED CONCRETE CEILING TO BE RUN IN CONDUIT CAST IN THE FLOOR SLAB.

Drawing Title
TYPICAL FLOORS (5TH & 9TH) RCP

Sign & Seal	Job no. 12.08
	Drawn by JPH
	Checked by AM / TS
	Sheet scale As indicated
	Drawing No. A-141.00
Date 01/20/14	DOB sheet 18 OF 49
DOB NUMBER	220211955

Project
491 E. 165TH STREET
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Sponsor
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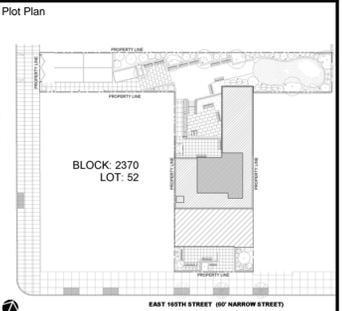
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Issuance Schedule

No.	Date	Description
12/16/2013	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
01/20/2014	01/20/2014	DOB SUBMISSION

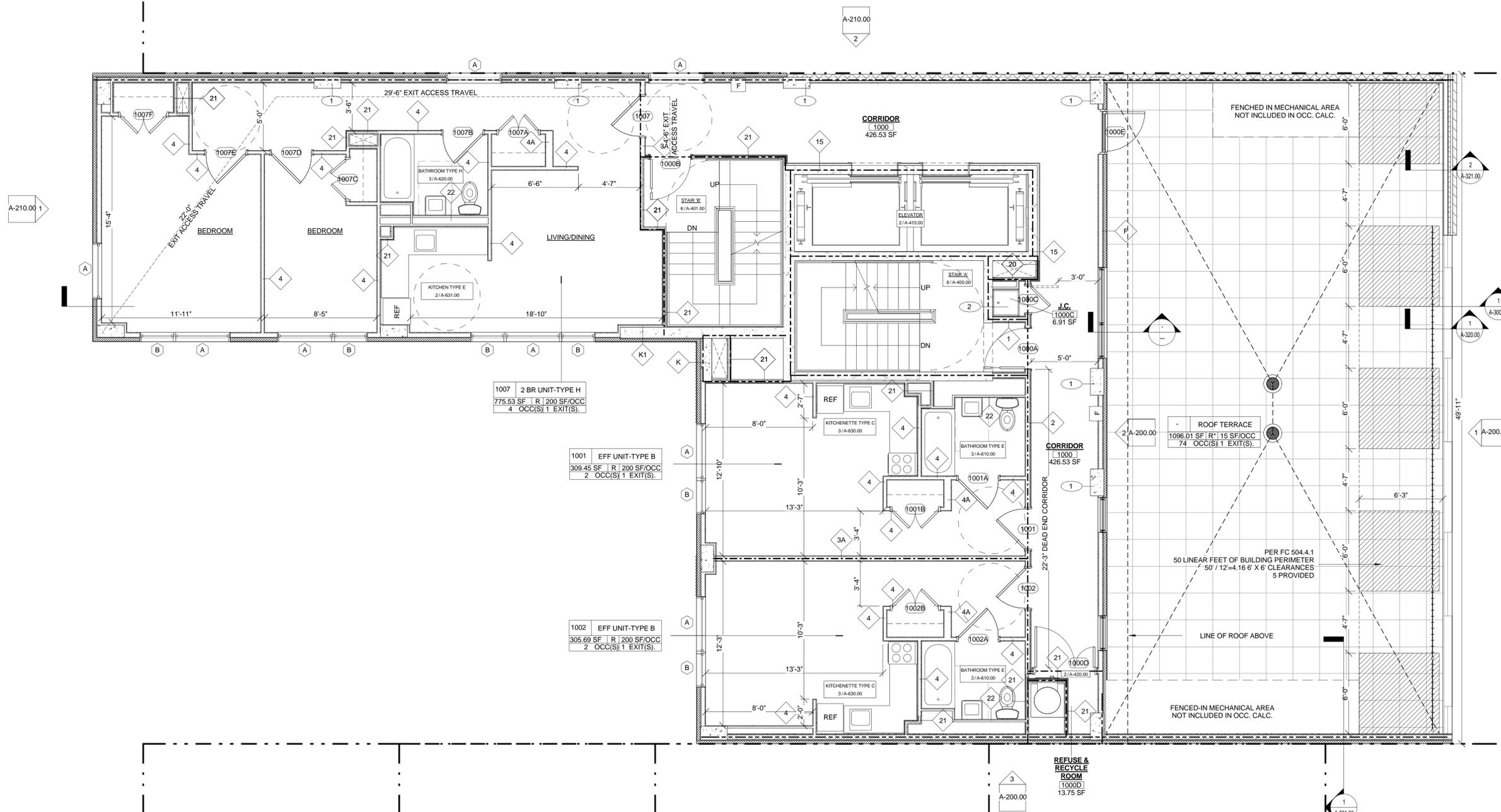
Drawing Title
TENTH FLOOR PLAN

Sign & Seal

Job no. 12.08
 Drawn by JPH
 Checked by AM / TS
 Sheet scale 1/4" = 1'-0"
 Drawing No. **A-150.00**

Date 01/20/14 DOB sheet 19 OF 49

DOB NUMBER
220211955



1 TENTH FLOOR PLAN
 1/4" = 1'-0"

SHEET NOTES

1 ARCHITECTURAL RUBBED CONCRETE WALL
 2 MOP BASIN AND FAUCET PER SPEC

KEY NOTES

1 WALLS: 3 HOUR RATED DOORS: 1 1/2 HR FRSC FOR REFUSE COMPACTOR ROOM
 2 WALLS: 2 HOUR RATED DOORS: 1 1/2 HR FRSC GLAZED OPENING: 1 1/2 HR FIRE RATED GLAZING PER UL9, UL10B, UL10C
 3 WALLS: 1 HOUR RATED DOORS: 3/4 HR FRSC

1 WALL TYPE
 -SEE DWG A500.00 FOR INTERIOR WALLS
 -SEE DWG A510.00 FOR EXTERIOR WALLS
 NOTE:
 SEE ELEVATION FOR CHANGES IN WALL FINISH.

ROOM NO. SQ. FT. OCC. CLASS NO. OF OCC. / ACTUAL

ROOM NAME OCC. FACTOR # REQ. EXITS

*DENOTES INCIDENTAL USE

LEGEND

ILLUMINATED EXIT LIGHT. SHADED AREA INDICATES FACE VIEWED. ARROW AS SHOWN.
 RECESSED FIRE EXTINGUISHER
 SMOKE DETECTOR ELEVATOR RECALL
 SMOKE DETECTOR CO2 DETECTOR
 REF. FIRST FLOOR T.O. SLAB EL. 0'-0" WHICH EQUALS 28.90' SURVEY EL. SHOWN AS (X,X)
 FLD FLOOR DRAIN

BUILDING CODE ANALYSIS AND NOTES

OCCUPANCY LOADS PER TABLE 1004.1.2:

OCCUPANCY	FACTOR (SF/OCC.)	OCC.	ACTUAL OCC.
RESIDENTIAL	200 GROSS	8	8
ROOF TERRACE	15 NET	74	74
MAXIMUM OCCUPANTS: 82			

EXIT CAPACITY PER TABLE 1005.1:

EXIT TYPE	WIDTH	FACTOR	MAX CAPACITY
STAIR A & B	44" Min	.37 / OCC.	146 OCC/STAIR
STAIR A & B DOOR	36"	.27 / OCC.	180 OCC/STAIR DOOR
CORRIDOR	44" Min	.27 / OCC.	220 OCC.

EXIT ACCESS TRAVEL DISTANCE 1015:
 MAXIMUM ALLOWED: 200' MAX. PROVIDED ON FLOOR: 56'-0"

DEAD END CORRIDOR 1016.3:
 MAXIMUM ALLOWED: 40' MAX. PROVIDED ON FLOOR: 23'-3"

Project
491 E. 165TH STREET
 BRONX, NEW YORK 10456

Owner
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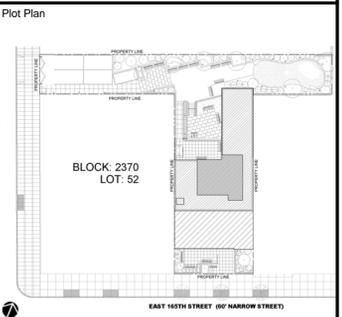
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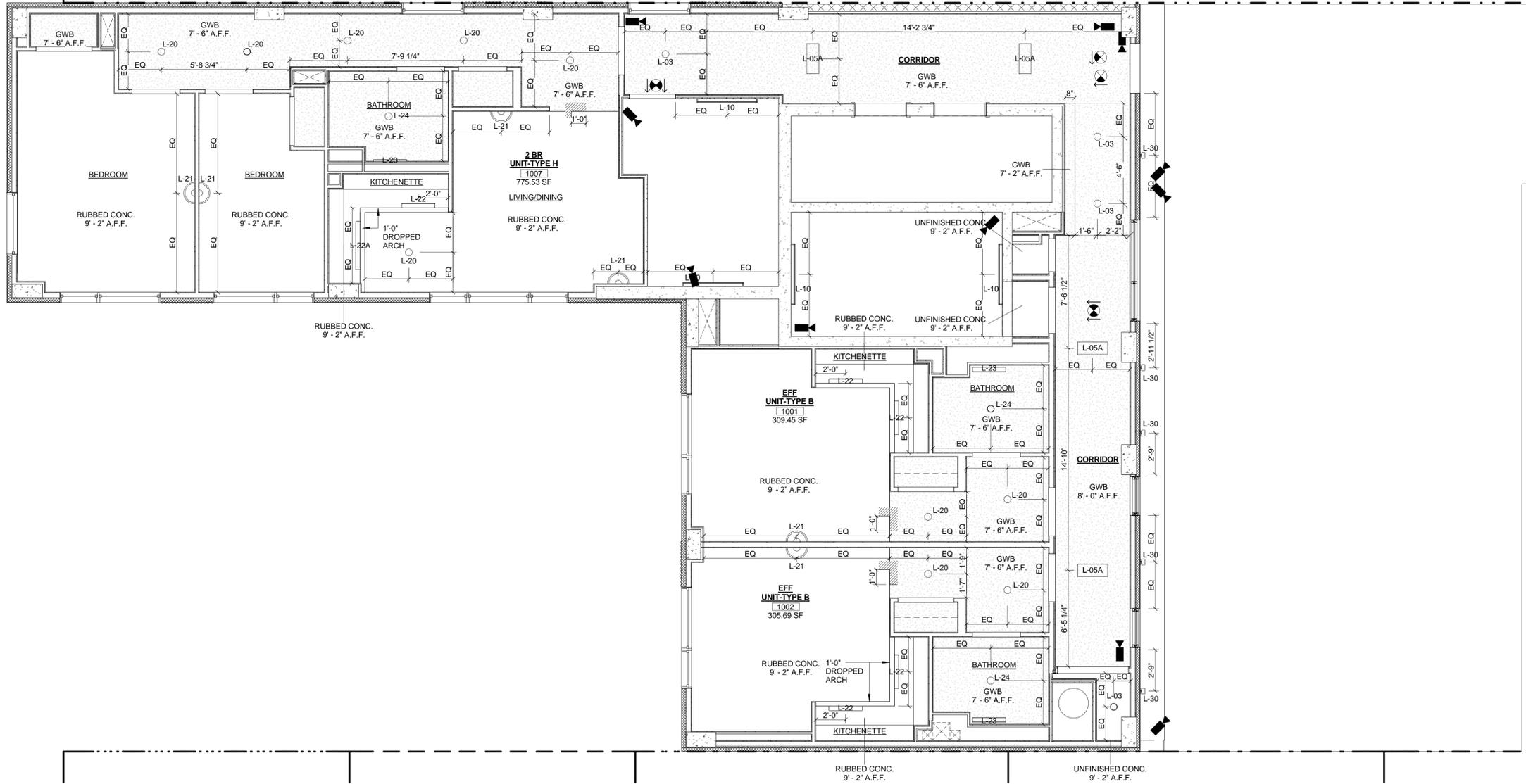
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For Department of Buildings Use



① TENTH FLOOR RCP
 1/4" = 1'-0"

LIGHTING FIXTURE SCHEDULE				LEGEND AND LIGHTING NOTES			
TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION
L-01		MANF.: COOPER LIGHTING MODEL: NEO-RAY FENESTRA 244 LAMPING: (2) 28W T5	2' x 4' @ ACT CEILINGS	L-06A		MANF.: COOPER LIGHTING MODEL: NEO-RAY TRIAD 17-IP LAMPING: (2) 28W T5	SUSPENDED LINEAR PENDANT @ EXERCISE ROOM
L-02		MANF.: COOPER LIGHTING MODEL: NEO-RAY FENESTRA 242 LAMPING: (2) 14W T5	2' x 2' @ ACT CEILINGS	L-07		MANF.: COOPER LIGHTING MODEL: METALUX LAMPING: SLED 2400 LUMEN, 96.4W, 3500K	8' STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE
L-03		MANF.: COOPER LIGHTING MODEL: PORTFOLIO LQ4A18 LAMPING: LED 1800 LUMEN, 3500K	4" DOWNLIGHT @ CORRIDORS, REFUSE & RECYCLE ROOMS	L-07A		MANF.: COOPER LIGHTING MODEL: METALUX SLED-BASE LAMPING: SLED 2400 LUMEN, 23.11W, 3500K	2' STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE
L-04		MANF.: COOPER LIGHTING MODEL: NEO-RAY STRAIGHT & NARROW LED LAMPING: LED 2225 LUMEN, 37.5W, 3500K	4" RECESSED STRIP @ PUBLIC AREAS	L-07B		MANF.: COOPER LIGHTING MODEL: METALUX SLED-BASE LAMPING: SLED 3000 LUMEN, 49.5W, 3500K	4" STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE
L-04A		MANF.: COOPER LIGHTING MODEL: NEO-RAY STRAIGHT & NARROW LED LAMPING: LED 1600 LUMEN, 28.2W, 3500K	3" RECESSED STRIP @ PUBLIC AREAS	L-09		MANF.: COOPER LIGHTING MODEL: METALUX 8C LAMPING: (1) 14W T5	2' UTILITY WALL MOUNT @ CELLAR
L-04D		MANF.: COOPER LIGHTING MODEL: NEO-RAY 23XR GEN2 LAMPING: (1) 28W T5	4" RECESSED WALL WASH @ PUBLIC AREAS	L-09A		MANF.: COOPER LIGHTING MODEL: METALUX 8C LAMPING: (1) 14W T5	4' UTILITY WALL MOUNT @ CELLAR, JANITOR CLOSETS
L-05		MANF.: COOPER LIGHTING MODEL: METALUX - W/LEDS LAMPING: LED 5400 LUMEN, 65W, 3500K	4" RECESSED WALL WASH @ PUBLIC AREAS	L-10		MANF.: COOPER LIGHTING MODEL: SURE LITES LAMPING: (2) 30W T8	4' SURFACE MOUNT, MOTION-ACTIVATED @ STAIRS
L-05A		MANF.: COOPER LIGHTING MODEL: METALUX - W/LEDS LAMPING: LED 5400 LUMEN, 32W, 3500K	2" SURFACE MOUNT @ TYP. CORRIDORS	L-11		MANF.: COOPER LIGHTING MODEL: SHAPER 801 SERIES LAMPING: (2) 25W T8	36" VERTICAL PUBLIC BATHROOM VANITY WALL LUMINAIRE
L-06		MANF.: COOPER LIGHTING MODEL: NEO-RAY TRIAD 17-IP LAMPING: (2) 28W T5	SUSPENDED LINEAR PENDANT @ EXERCISE ROOM	L-12		MANF.: COOPER LIGHTING MODEL: PORTFOLIO C4026 LAMPING: (1) 28W TTT	4" RECESSED DOWNLIGHT @ PUBLIC BATHROOMS
L-21		MANF.: PROGRESS LIGHTING MODEL: LAMPING: PRT114 LAMPING: (2) 17W T8	PROGRESS LIGHTING	L-20		MANF.: COOPER LIGHTING MODEL: PORTFOLIO C4026 LAMPING: (1) 28W TTT	COOPER LIGHTING
L-22		MANF.: PROGRESS LIGHTING MODEL: LAMPING: PRT114 LAMPING: (2) 17W T8	PROGRESS LIGHTING	L-22A		MANF.: PROGRESS LIGHTING MODEL: LAMPING: PRT114 LAMPING: (2) 20W T8	PROGRESS LIGHTING
L-23		MANF.: PROGRESS LIGHTING MODEL: LAMPING: PRT114 LAMPING: (2) 17W T8	PROGRESS LIGHTING	L-23		MANF.: COOPER LIGHTING MODEL: PORTFOLIO C4026 LAMPING: (1) 28W TTT	COOPER LIGHTING
L-24		MANF.: COOPER LIGHTING MODEL: PORTFOLIO C4026 LAMPING: (1) 28W TTT	COOPER LIGHTING	L-24		MANF.: COOPER LIGHTING MODEL: PORTFOLIO C4026 LAMPING: (1) 28W TTT	COOPER LIGHTING
L-25		MANF.: PROGRESS LIGHTING MODEL: LAMPING: PRT114 LAMPING: (2) 17W T8	PROGRESS LIGHTING	L-30		MANF.: COOPER LIGHTING MODEL: LUMERE EON 303-W2 LAMPING: LED 17W 3000K	COOPER LIGHTING
L-31		MANF.: COOPER LIGHTING MODEL: LUMERE EON 303-W1 LAMPING: LED 17W 3000K	COOPER LIGHTING	L-31		MANF.: COOPER LIGHTING MODEL: LUMERE EON 303-W1 LAMPING: LED 17W 3000K	COOPER LIGHTING
L-32		MANF.: COOPER LIGHTING MODEL: LUMERE EON 303-W1 LAMPING: LED 17W 3000K	COOPER LIGHTING	L-32		MANF.: COOPER LIGHTING MODEL: LUMERE EON 303-W1 LAMPING: LED 17W 3000K	COOPER LIGHTING
L-20		MANF.: COOPER LIGHTING MODEL: PORTFOLIO C4026 LAMPING: (1) 28W TTT	COOPER LIGHTING	L-20		MANF.: COOPER LIGHTING MODEL: PORTFOLIO C4026 LAMPING: (1) 28W TTT	COOPER LIGHTING

KEY NOTES		LIGHTING NOTES	
	SMOKE DETECTOR	1.	PROVIDE EMERGENCY BALLAST (WHERE AVAILABLE INTEGRAL TO THE FIXTURE) WHERE SHOWN ON ELECTRICAL DRAWINGS VOLTAGE AND BALLAST TO BE AS PER ELECTRICAL DRAWINGS / SPECIFICATIONS.
	CARBON MONOXIDE DETECTOR	2.	ALL BALLASTS TO BE COMPATIBLE WITH OCCUPANCY AND DAYLIGHT SENSOR WERE REQUIRED.
	SMOKE DETECTOR WITH ELEVATOR RECALL	3.	PROVIDE ALL ACCESSORIES FOR THE PROPER INSTALLATION AND OPERATION OF FIXTURES. ALL FIXTURES, BALLASTS, AND EMERGENCY BALLASTS TO BE APPROVED FOR USE IN NYC. ALL EXIT SIGN LETTERING TO BE RED AND 6" HIGH.
	ILLUMINATED EXIT LIGHT	4.	MOUNTING AND TRIM TO BE AS REQUIRED FOR CEILING TYPE SCHEDULED.
	SHADED AREA INDICATES FACE VIEWED, ARROW AS REQUIRED	5.	WIRING FOR LIGHTS LOCATED AT SKIM COATED CONCRETE CEILING TO BE RUN IN CONDUIT CAST IN THE FLOOR SLAB.
	ELEVATION CHANGE	6.	
	SECURITY CAMERA	7.	
	GWB BOXOUT FOR SPRINKLER HEAD TYPICAL AT ALL UNITS TO BE KEPT AT MIN. DEPTH REQUIRED. COORDINATE WITH SPRINKLER DRAWINGS	8.	

Issuance Schedule		
No.	Date	Description
12/16/2013	DESIGN DEVELOPMENT SUBMITTAL	
01/20/2014	DOB SUBMISSION	

Drawing Title
TENTH FLOOR RCP

Sign & Seal	Job no. 12.08
	Drawn by JPH
	Checked by AM / TS
	Sheet scale As indicated
	Drawing No. A-151.00
Date 01/20/14	DOB sheet 20 OF 49
DOB NUMBER 220211955	

Project
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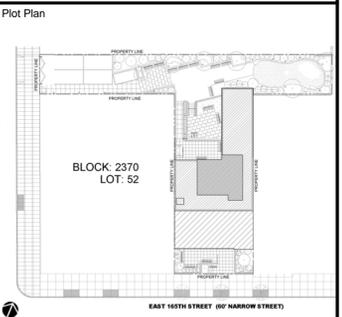
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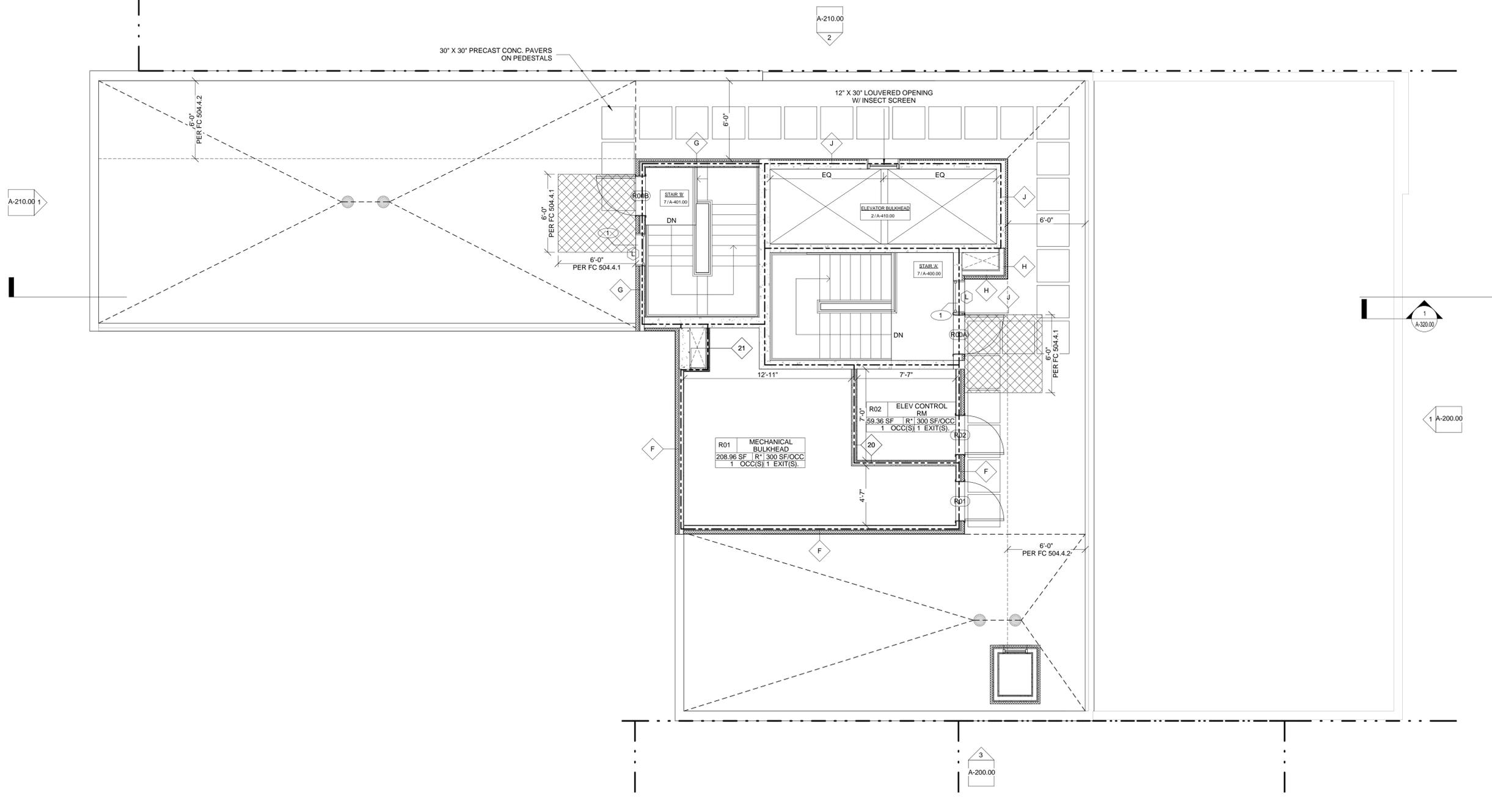


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Issuance Schedule		
No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
ROOF & BULKHEAD PLAN

Sign & Seal	Job no.	12.08
	Drawn by	JPH
Date	Checked by	AM / TS
	Sheet scale	1/4" = 1'-0"
DOB NUMBER	Drawing No.	A-160.00
	Date	01/20/14
	DOB sheet	21 OF 49
		220211955



1 ROOF PLAN
 1/4" = 1'-0"

SHEET NOTES

KEY NOTES

1 STAIR SHAFT VENTILATION PER B.C. 910.5.2
 24 SQ. IN. LOUVERED VENT REQUIRED
 48 SQ. IN. 1/8" PLAIN GLASS REQUIRED

LEGEND

WALLS: 3 HOUR RATED DOORS: 1 1/2 HR FRSC FOR REFUSE COMPACTOR ROOM

WALLS: 2 HOUR RATED DOORS: 1 1/2 HR FRSC GLAZED OPENING: 1 1/2 HR FIRE RATED GLAZING PER UL9, UL10B, UL10C

WALLS: 1 HOUR RATED DOORS: 3/4 HR FRSC

1 WALL TYPE
 -SEE DWG A500.00 FOR INTERIOR WALLS
 -SEE DWG A510.00 FOR EXTERIOR WALLS
 NOTE:
 SEE ELEVATION FOR CHANGES IN WALL FINISH.

ROOM NO.	SQ. FT.	OCC. CLASS	NO. OF OCC.	ACTUAL	ROOM NAME	OCC. FACTOR	# REQ. EXITS

*DENOTES INCIDENTAL USE

BUILDING CODE ANALYSIS AND NOTES

OCCUPANCY LOADS PER TABLE 1004.1.2:

OCCUPANCY	FACTOR (SF/OCC.)	OCC.	ACTUAL OCC.
ACCESSORY STO. AND MECH.	300 GROSS	2	2
MAXIMUM OCCUPANTS:			2

EXIT CAPACITY PER TABLE 1005.1:

EXIT TYPE	WIDTH	FACTOR	MAX CAPACITY
STAIR A & B	44" Min	.37 / OCC.	146 OCC/STAIR
STAIR A & B DOOR	36"	.27 / OCC.	180 OCC/STAIR DOOR
CORRIDOR	44" Min	.27 / OCC.	220 OCC.

ILLUMINATED EXIT LIGHT. SHADED AREA INDICATES FACE VIEWED. ARROW AS SHOWN.

RECESSED FIRE EXTINGUISHER

SMOKE DETECTOR ELEVATOR RECALL

SMOKE DETECTOR CO2 DETECTOR

REF. FIRST FLOOR T.O. SLAB EL 0'-0" WHICH EQUALS 28.90' SURVEY EL. SHOWN AS (X.X)

FD FLOOR DRAIN

C:\Users\jph\My Documents\LOCAL (E:\606) 491 E 165th Street_Sheet 21 - Comment.rvt

Project
491 E. 165TH STREET
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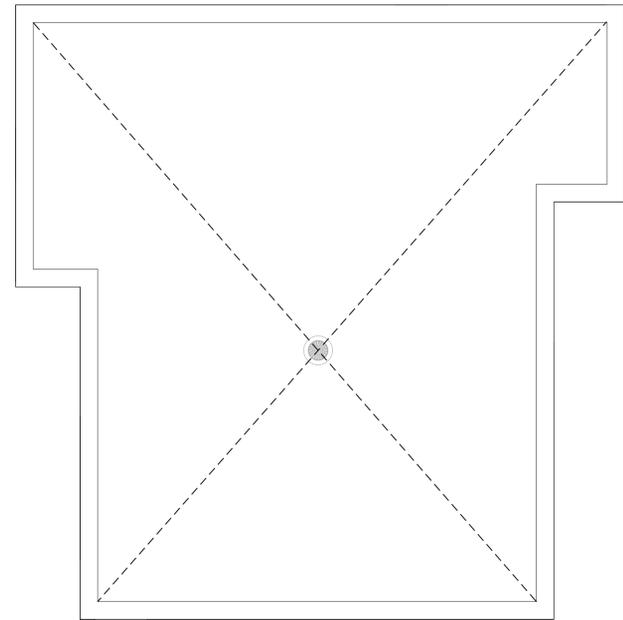
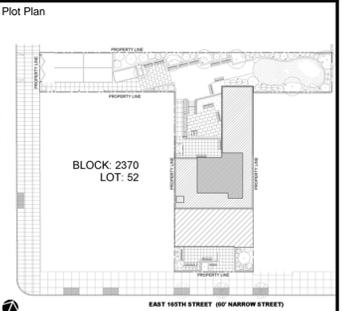
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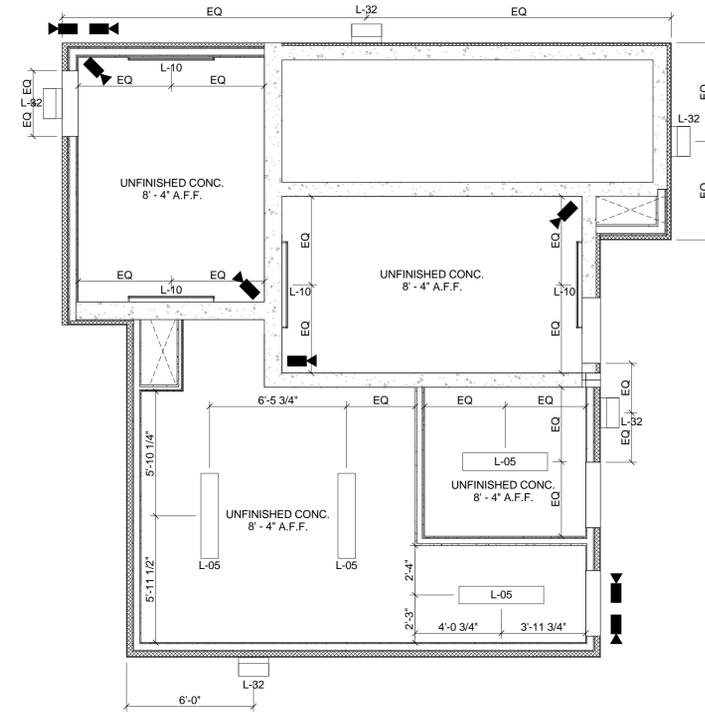
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1 BULKHEAD ROOF PLAN
 1/4" = 1'-0"



2 BULKHEAD RCP
 1/4" = 1'-0"

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Issuance Schedule		
No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
BULKHEAD ROOF PLAN & BULKHEAD RCP

Sign & Seal	Job no. 12.08
	Drawn by JPH
	Checked by AM / TS
	Sheet scale As indicated
	Drawing No. A-161.00
Date 01/20/14	DOB sheet 22 OF 49
DOB NUMBER 220211955	

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES	TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-01	[Symbol]	MANF.: COOPER LIGHTING MODEL: NEO-RAY FENESTRA 244 LAMPING: (2) 28W T5	2' x 4' @ ACT CEILINGS	SLOTTED PERFORATION	L-06A	[Symbol]	MANF.: COOPER LIGHTING MODEL: NEO-RAY TRIAD 17-IP LAMPING: (2) 28W T5	SUSPENDED 4' LINEAR PENDANT @ EXERCISE ROOM	DC PENDANT ROUND PERFORATION
L-02	[Symbol]	MANF.: COOPER LIGHTING MODEL: NEO-RAY FENESTRA 242 LAMPING: (2) 14W T5	2' x 2' @ ACT CEILINGS	SLOTTED PERFORATION	L-07	[Symbol]	MANF.: COOPER LIGHTING MODEL: METALUX SLED 8600 LUMEN, 96.6W, 3500K	6' STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-03	[Symbol]	MANF.: COOPER LIGHTING MODEL: PORTFOLIO LD4A18 LAMPING: LED 1800 LUMEN, 3500K	4" DOWNLIGHT @ CORRIDORS, REFUSE & RECYCLE ROOMS		L-07A	[Symbol]	MANF.: COOPER LIGHTING MODEL: METALUX SLED 2400 LUMEN, 23.11W, 3500K	2' STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-04	[Symbol]	MANF.: COOPER LIGHTING MODEL: NEO-RAY STRAIGHT & NARROW LED LAMPING: LED 2223 LUMEN, 37.5W, 3500K	4" RECESSED STRIP @ PUBLIC AREAS	SHIELDING: SATIN WHITE LENS FLANGLESS FSR AT SHEETROCK	L-07B	[Symbol]	MANF.: COOPER LIGHTING MODEL: METALUX SLED 4000 LUMEN, 49.8W, 3500K	4' STRIP COVE LIGHTING @ LOBBY, OFFICES, VESTIBULE	PROVIDE ONE SPECULAR REFLECTOR ON BOTTOM SIDE OF COVE.
L-04A	[Symbol]	MANF.: COOPER LIGHTING MODEL: NEO-RAY STRAIGHT & NARROW LED LAMPING: LED 1660 LUMEN, 28.2W, 3500K	3" RECESSED STRIP @ PUBLIC AREAS	SHIELDING: SATIN WHITE LENS FLANGLESS FSR AT SHEETROCK	L-09	[Symbol]	MANF.: COOPER LIGHTING MODEL: METALUX RC LAMPING: (1) 14W T5	2' UTILITY WALL MOUNT @ CELLAR	
L-04D	[Symbol]	MANF.: COOPER LIGHTING MODEL: NEO-RAY 23XR GEN2 LAMPING: (1) 28W T5	4" RECESSED WALL WASH @ PUBLIC AREAS	FLANGLESS FSR AT SHEETROCK	L-09A	[Symbol]	MANF.: COOPER LIGHTING MODEL: METALUX RC LAMPING: (1) 14W T5	4' UTILITY WALL MOUNT @ CELLAR, JANITOR CLOSETS	
L-05	[Symbol]	MANF.: COOPER LIGHTING MODEL: METALUX - W/LEED LAMPING: LED 5400 LUMEN, 65W, 3500K	4" SURFACE MOUNT @ CELLAR SERVICE AREAS		L-10	[Symbol]	MANF.: COOPER LIGHTING MODEL: SURE LITES LAMPING: (2) 30W T8	4" SURFACE MOUNT, MOTION-ACTIVATED @ STAIRS	BLEVEL
L-05A	[Symbol]	MANF.: COOPER LIGHTING MODEL: METALUX - W/LEED LAMPING: LED 2700 LUMEN, 32W, 3500K	2" SURFACE MOUNT @ TYP. CORRIDORS		L-11	[Symbol]	MANF.: COOPER LIGHTING MODEL: SHAPER 801 SERIES LAMPING: (2) 25W T8	36" VERTICAL PUBLIC BATHROOM VANITY WALL LUMINAIRE	NATURAL ALUMINUM FINISH (DAMP LOCATION LISTED 4' SHELF)
L-06	[Symbol]	MANF.: COOPER LIGHTING MODEL: NEO-RAY TRIAD 17-IP LAMPING: (2) 28W T5	SUSPENDED 4' LINEAR PENDANT @ EXERCISE ROOM	DC PENDANT ROUND PERFORATION	L-12	[Symbol]	MANF.: COOPER LIGHTING MODEL: PORTFOLIO C4026 LAMPING: (1) 28W T5	4" RECESSED DOWNLIGHT @ PUBLIC BATHROOMS	DAMP LOCATION LISTED

TYPE	SYMBOL	FIXTURE TYPE / MODEL / MANF.	DESCRIPTION / LOCATION	NOTES
L-21	[Symbol]	MANF.: PROGRESS LIGHTING MODEL: P7121 LAMPING: (2) 15W T5	WALL MOUNT @ APT UNIT SLEEPING & LIVING AREAS	
L-22	[Symbol]	MANF.: PROGRESS LIGHTING MODEL: P7114 LAMPING: (2) 17W T8	27" LINEAR FLOURESCENT @ UNIT KITCHENETTES	
L-22A	[Symbol]	MANF.: PROGRESS LIGHTING MODEL: P7114 LAMPING: (2) 20W T8	30" LINEAR FLOURESCENT @ UNIT KITCHENETTES	
L-23	[Symbol]	MANF.: PROGRESS LIGHTING MODEL: P7114 LAMPING: (2) 17W T8	27" VANITY LINEAR FLOURESCENT @ UNIT BATHROOMS	DAMP LOCATION LISTED
L-24	[Symbol]	MANF.: COOPER LIGHTING MODEL: PORTFOLIO C4026 LAMPING: (1) 28W T5	4" RECESSED DOWNLIGHT @ APT BATHROOMS	DAMP LOCATION LISTED
L-25	[Symbol]	MANF.: PROGRESS LIGHTING MODEL: P7114 LAMPING: (2) 17W T8	27" LINEAR FLOURESCENT @ UNIT ALCOVES	
L-30	[Symbol]	MANF.: COOPER LIGHTING MODEL: LUMERE EON 303-W2 LAMPING: LED 17W 3000K	EXTERIOR WALL MOUNT UP/DN LIGHT @ 1ST FL RECESSED FACADE	T4 OPTIC BLACK FINISH
L-31	[Symbol]	MANF.: COOPER LIGHTING MODEL: LUMERE EON 303-W1 LAMPING: LED 17W 3000K	EXTERIOR WALL MOUNT ON LIGHT @ 1ST FL REAR FACADES	T4 OPTIC BLACK FINISH
L-32	[Symbol]	MANF.: COOPER LIGHTING MODEL: ALL-PRO FFE LAMPING: LED 17W 3000K	EXTERIOR WALL MOUNT @ BULKHEADS	BRONZE FINISH
L-20	[Symbol]	MANF.: COOPER LIGHTING MODEL: PORTFOLIO C4026 LAMPING: (1) 28W T5	4" RECESSED DOWNLIGHT @ APT UNITS	

LEGEND AND LIGHTING NOTES	
KEY NOTES	LIGHTING NOTES
SYMBOL DESCRIPTION SMOKE DETECTOR CARBON MONOXIDE DETECTOR SMOKE DETECTOR WITH ELEVATOR RECALL ILLUMINATED EXIT LIGHT SHADED AREA INDICATES FACE VIEWED, ARROW AS REQUIRED ELEVATION CHANGE SECURITY CAMERA GWB BOXOUT FOR SPRINKLER HEAD TYPICAL AT ALL UNITS TO BE KEPT AT MIN. DEPTH REQUIRED, COORDINATE WITH SPRINKLER DRAWINGS	1. PROVIDE EMERGENCY BALLAST (WHERE AVAILABLE INTEGRAL TO THE FIXTURE) WHERE SHOWN ON ELECTRICAL DRAWINGS VOLTAGE AND BALLAST TO BE AS PER ELECTRICAL DRAWINGS / SPECIFICATIONS. 2. ALL BALLASTS TO BE COMPATIBLE WITH OCCUPANCY AND DAYLIGHT SENSOR WERE REQUIRED. 3. PROVIDE ALL ACCESSORIES FOR THE PROPER INSTALLATION AND OPERATION OF FIXTURES. ALL FIXTURES, BALLASTS, AND EMERGENCY BALLASTS TO BE APPROVED FOR USE IN NYC. ALL EXIT SIGN LETTERING TO BE RED AND 6" HIGH. 4. MOUNTING AND TRIM TO BE AS REQUIRED FOR CEILING TYPE SCHEDULED. 5. WIRING FOR LIGHTS LOCATED AT SKIM COATED CONCRETE CEILING TO BE RUN IN CONDUIT CAST IN THE FLOOR SLAB.

3/10/2014 2:17:17 PM

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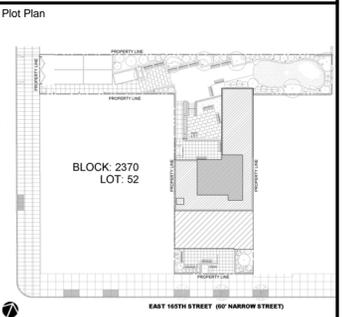
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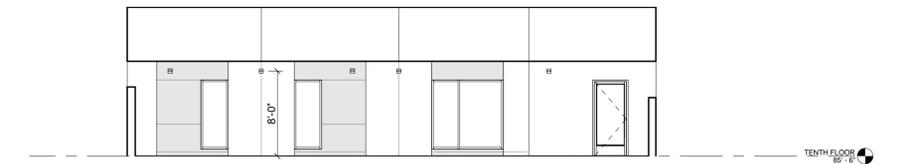
Issuance Schedule		
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Drawing Title
SOUTH & WEST ELEVATIONS

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 Checked by AM / TS
 Sheet scale As indicated
 Drawing No.
A-200.00

Date 01/20/14 DOB sheet 23 OF 49

DOB NUMBER
220211955



② SOUTH ELEVATION @ 10TH FL TERRACE
 1/8" = 1'-0"



③ WEST ELEVATION (WITH REAR YARD)
 1/8" = 1'-0"

① SOUTH ELEVATION (STREET FACADE)
 1/8" = 1'-0"

SHEET NOTES

KEY NOTES

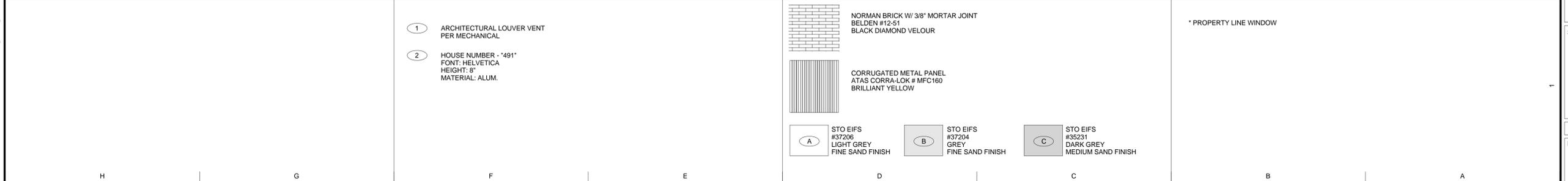
LEGEND

BUILDING CODE ANALYSIS AND NOTES

- ① ARCHITECTURAL LOUVER VENT PER MECHANICAL
- ② HOUSE NUMBER - '491'
 FONT: HELVETICA
 HEIGHT: 8"
 MATERIAL: ALUM.

- NORMAN BRICK W/ 3/8" MORTAR JOINT
 BELDEN #12-51
 BLACK DIAMOND VELOUR
- CORRUGATED METAL PANEL
 ATAS CORRA-LOK # MFC160
 BRILLIANT YELLOW
- ① STO EIFS #37206
 LIGHT GREY FINE SAND FINISH
- ② STO EIFS #37204
 DARK GREY FINE SAND FINISH
- ③ STO EIFS #35231
 DARK GREY MEDIUM SAND FINISH

* PROPERTY LINE WINDOW



3/10/2014 2:17:33 PM

Project
491 E. 165TH STREET
 BRONX, NEW YORK 10456
 Owner
PSCH, INC / CHRISTA
 40 ELMONT ROAD, ELMONT, NY 11003
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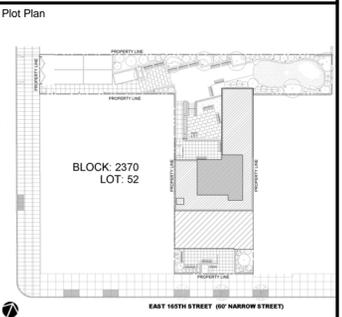
MEP ENGINEER
EMTG CONSULTANTS, INC
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CIVIL ENGINEER
MICHAEL WEIN, PE
 135 COUNTRY CLUB DR, MONROE TWP, NJ 08831

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DESIGN 2147, LTD
 52 DIAMOND STREET, BROOKLYN, NY 11222

ESTIMATOR
CHAM ESTIMATING SERVICE
 1 VANDERWATER CT, EAST BRUNSWICK, NJ 08816



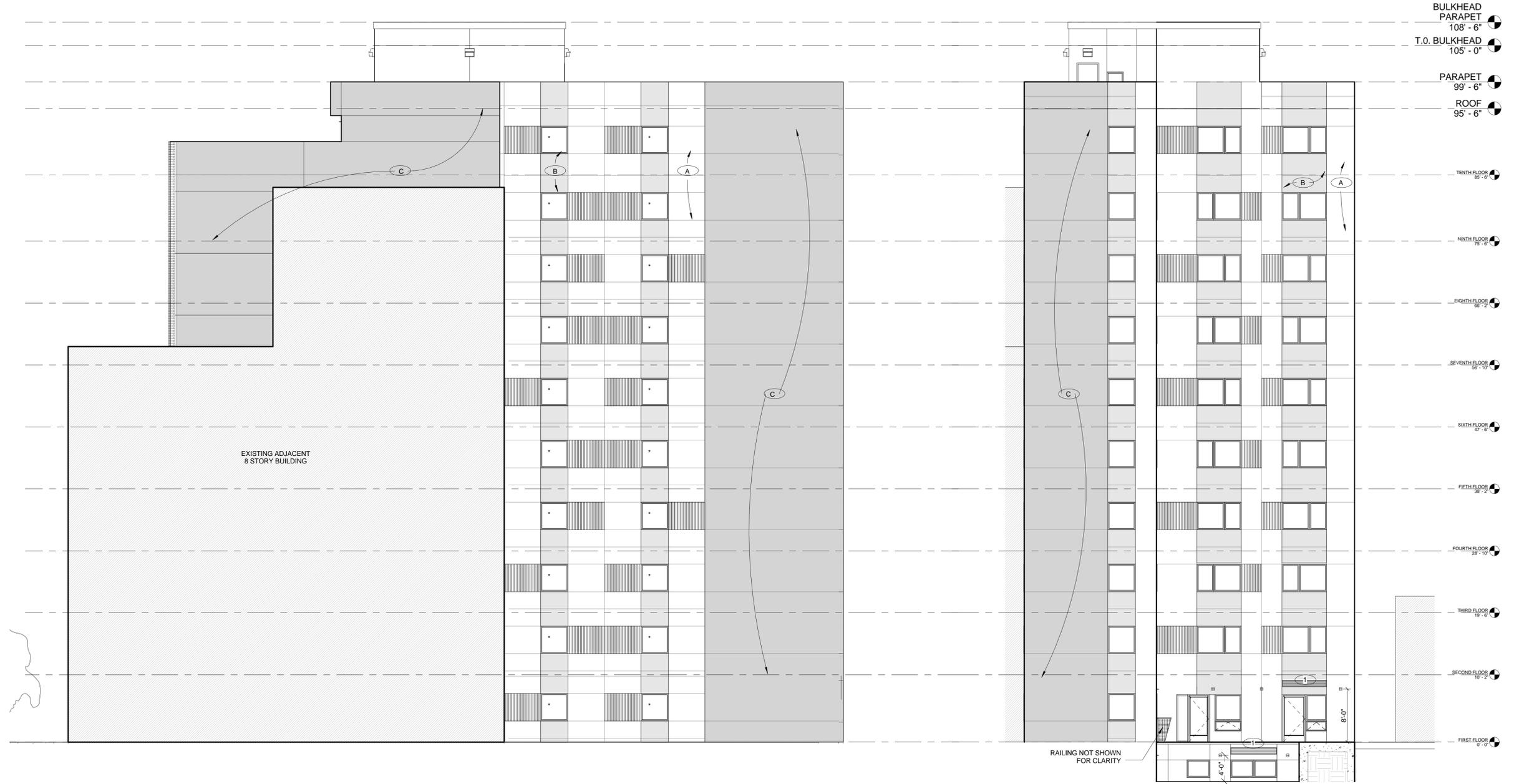
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Issuance Schedule		
No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
NORTH & EAST ELEVATIONS

Sign & Seal	Job no.	12.08
	Drawn by	JPH
	Checked by	AM / TS
	Sheet scale	As indicated
	Drawing No.	A-210.00
Date	01/20/14	DOB sheet 24 OF 49

DOB NUMBER
220211955



2 EAST ELEVATION
 1/8" = 1'-0"

1 NORTH ELEVATION
 1/8" = 1'-0"

SHEET NOTES

KEY NOTES

LEGEND

BUILDING CODE ANALYSIS AND NOTES

- 1 ARCHITECTURAL LOUVER VENT PER MECHANICAL
- 2 HOUSE NUMBER - '491' FONT: HELVETICA HEIGHT: 8" MATERIAL: ALUM.

NORMAN BRICK W/ 3/8" MORTAR JOINT BELDEN #12-51 BLACK DIAMOND VELOUR

CORRUGATED METAL PANEL ATAS CORRA-LOK # MFC160 BRILLIANT YELLOW

STO EIFS #37206 LIGHT GREY FINE SAND FINISH **STO EIFS #37204 GREY FINE SAND FINISH** **STO EIFS #35231 DARK GREY MEDIUM SAND FINISH**

* PROPERTY LINE WINDOW

H
G

F
E

D
C

B
A

C:\Users\jph\My Documents\LOCAL (E:\165th Street)_JPH_Locum.rvt



1 SECTION A-A
1/8" = 1'-0"

Project
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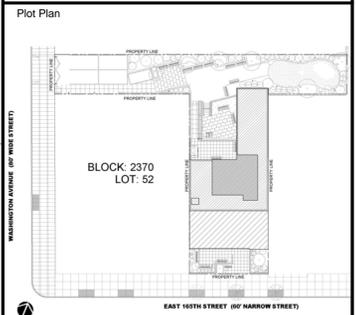
MEP ENGINEER
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 115 W 30TH STREET STE 202, NEW YORK, NY 10001

CIVIL ENGINEER
MICHAEL WEIN, PE
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DESIGN 2147, LTD
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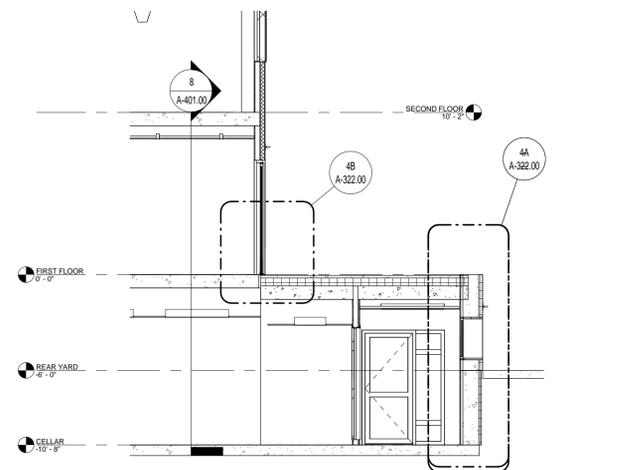
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BUILDING SECTION A-A

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	Checked by	AM / TS
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Drawing No.		A-300.00

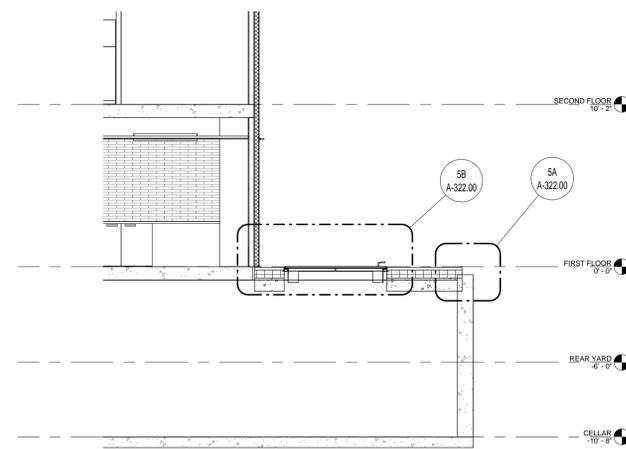
Date 01/20/14 DOB sheet 25 OF 49

DOB NUMBER
220211955

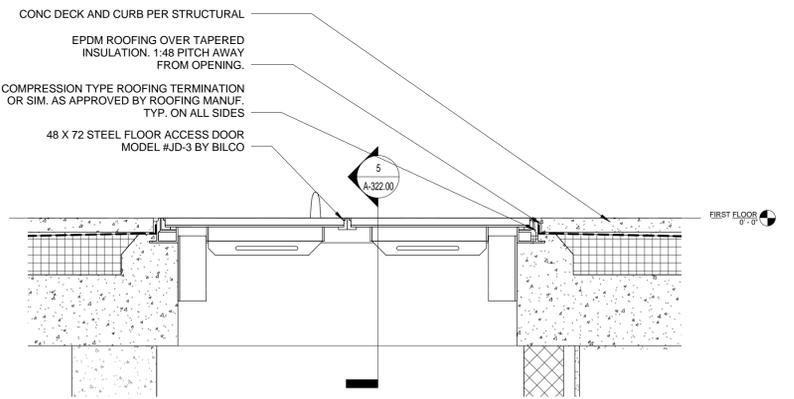
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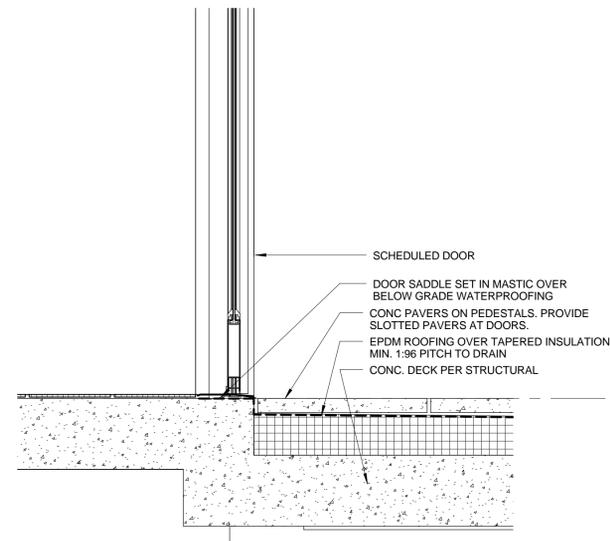
4 Section 4
3/16" = 1'-0"



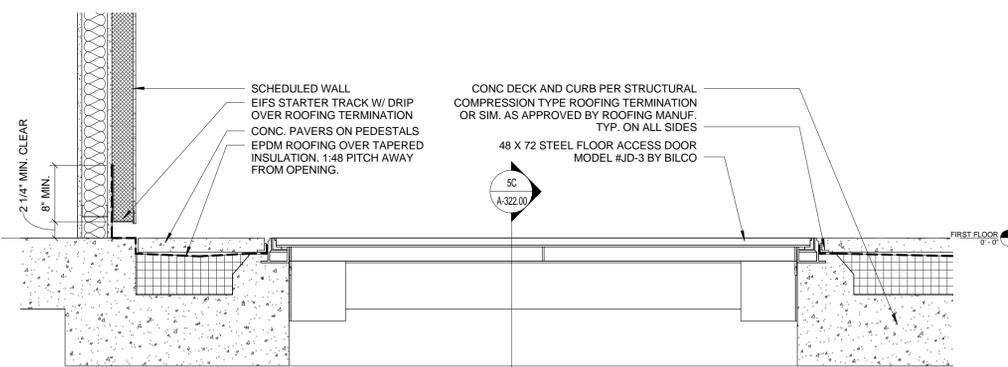
5 Section 5
3/16" = 1'-0"



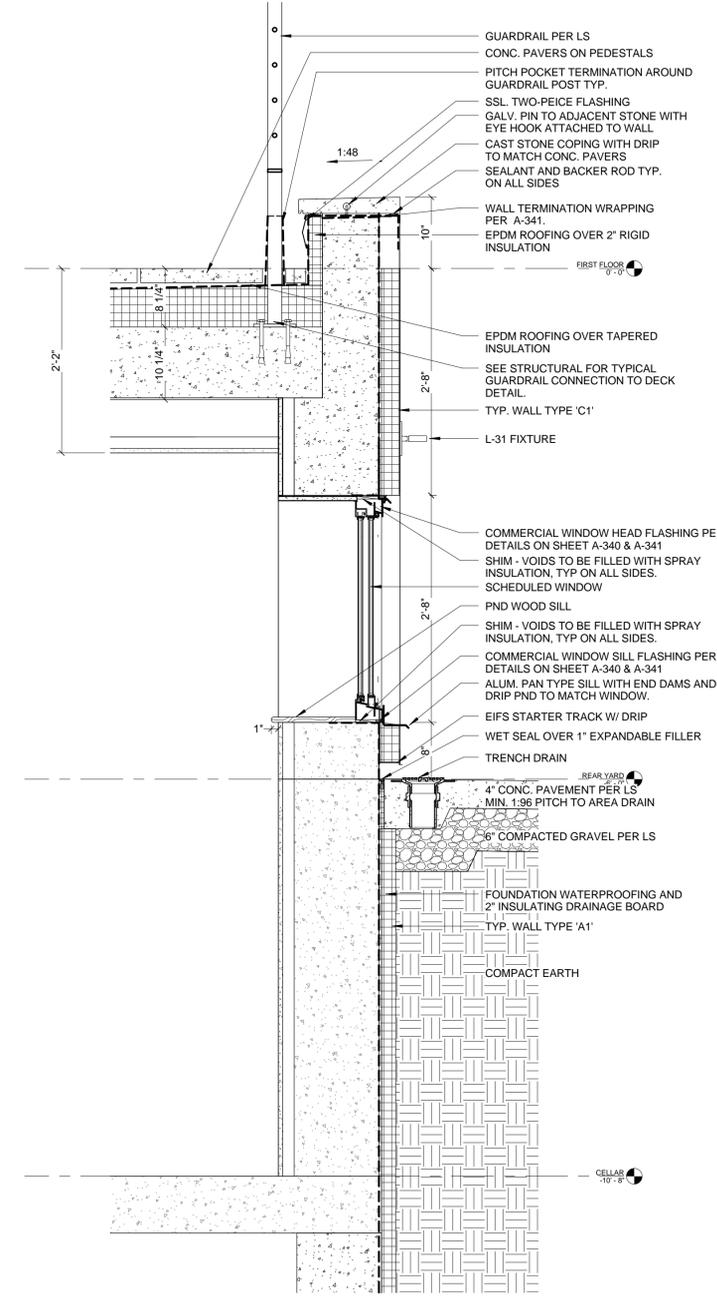
5C DETAIL SECTION 5C
1" = 1'-0"



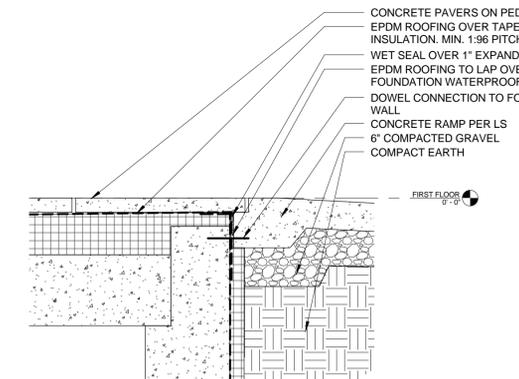
4B DETAIL SECTION 4B
1" = 1'-0"



5B DETAIL SECTION 5B
1" = 1'-0"



4A DETAIL SECTION 4A
1" = 1'-0"



5A DETAIL SECTION 5A
1" = 1'-0"

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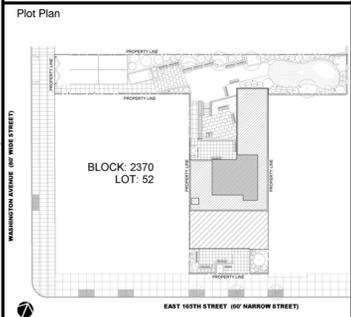
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MICHAEL WEIN, PE
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DESIGN 2147, LTD
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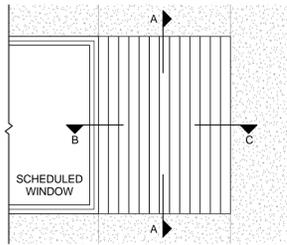
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No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
WALL SECTIONS & DETAILS

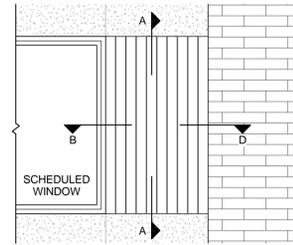
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Checked by AM / TS
Sheet scale As indicated
Drawing No.
A-322.00

Date 01/20/14 DOB sheet 28 OF 49

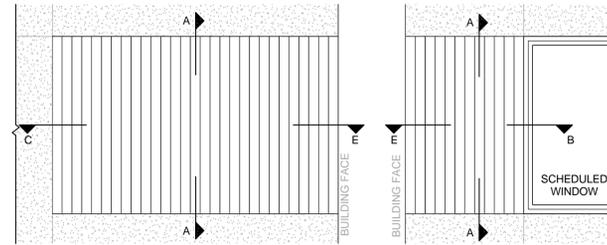
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220211955



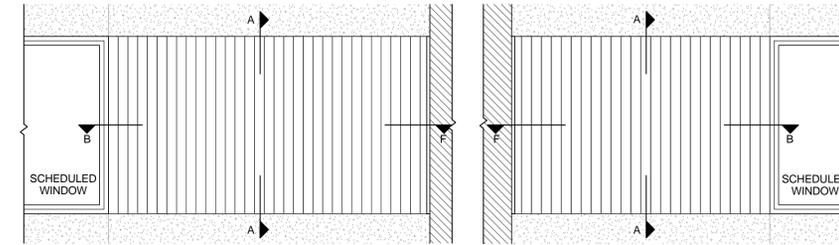
METAL PANEL WALL - ELEV @ EIFS RETURN
1/2" = 1'-0"



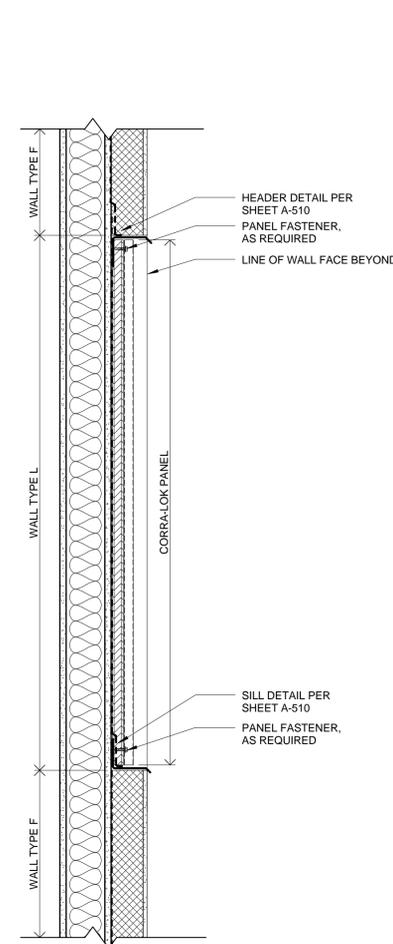
METAL PANEL WALL - ELEV @ BRICK RETURN
1/2" = 1'-0"



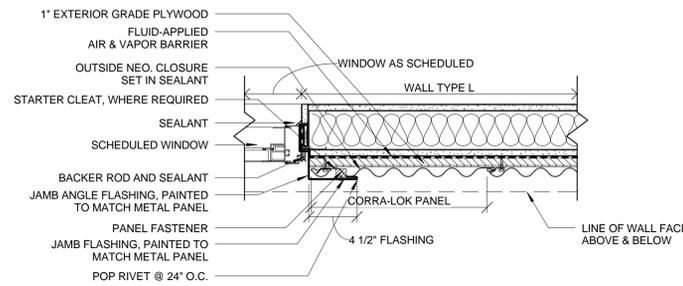
METAL PANEL WALL - ELEV @ OUTSIDE CORNER
1/2" = 1'-0"



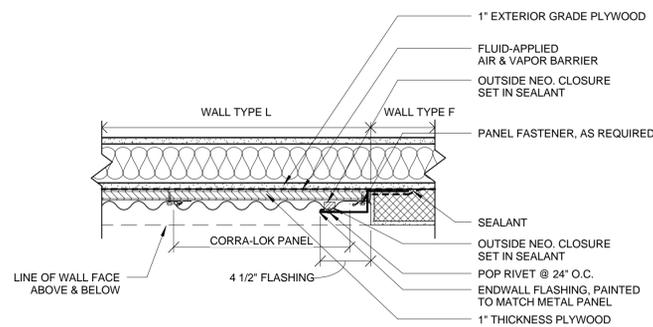
METAL PANEL WALL - ELEV @ INSIDE CORNER
1/2" = 1'-0"



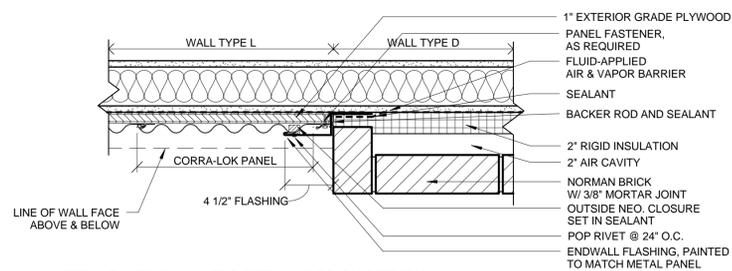
METAL PANEL WALL - TYP SECTION
1 1/2" = 1'-0"



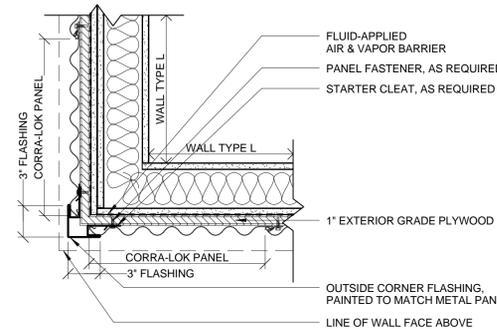
METAL PANEL WALL - TYP DETAIL @ WINDOW JAMB
1 1/2" = 1'-0"



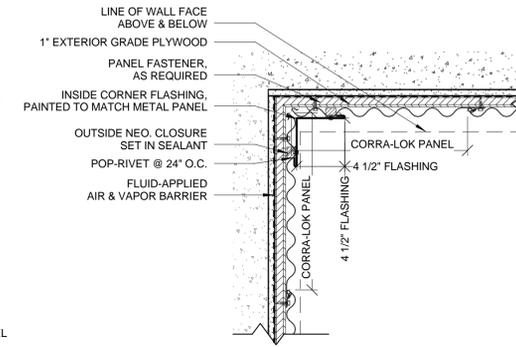
METAL PANEL WALL - TYP DETAIL @ EIFS RETURN
1 1/2" = 1'-0"



METAL PANEL WALL - TYP DETAIL @ BRICK RETURN
1 1/2" = 1'-0"



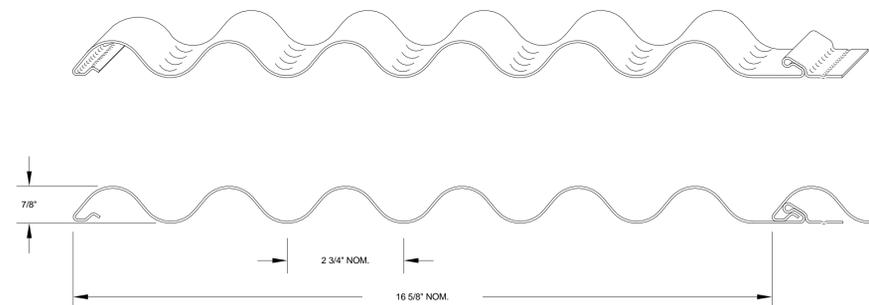
METAL PANEL WALL - TYP DETAIL @ OUTSIDE CORNER
1 1/2" = 1'-0"



METAL PANEL WALL - TYP DETAIL @ INSIDE CORNER
1 1/2" = 1'-0"

NOTES:

- PANELS TO BE CORRA-LOK, #MFC160, BY ATAS INTERNATIONAL.
- PANELS ARE TO BE INSTALLED IN VERTICAL ORIENTATION.
- STANDARD PANEL DIMENSIONS ARE 7/8" DEEP BY 16 5/8" WIDE.
- PANELS TO BE FASTENED TOGETHER TO FORM TOTAL WIDTH, VARYING BY FACADE LOCATION & ELEVATION. PROVIDE SHOP DRAWINGS FOR APPROVAL.
- PANELS TO PAINTED: COLOR: BRILLIANT YELLOW, TEXTURE: SMOOTH.
- PROVIDE MOCKUP OF ONE WALL ASSEMBLY, INTERSECTING WITH WINDOW AND EIFS HEAD & SILL, FOR REVIEW AND APPROVAL.



METAL WALL PANEL DETAIL
6" = 1'-0"

Project
491 E. 165TH STREET
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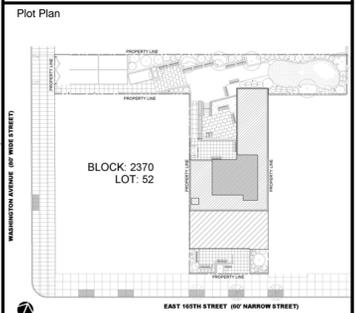
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EMTG CONSULTANTS, INC
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CIVIL ENGINEER
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Drawing Title
TYPICAL METAL PANEL WALL DETAILS

Sign & Seal
Job no. 12.08
Drawn by JPH
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Sheet scale As indicated
Drawing No. **A-323.00**

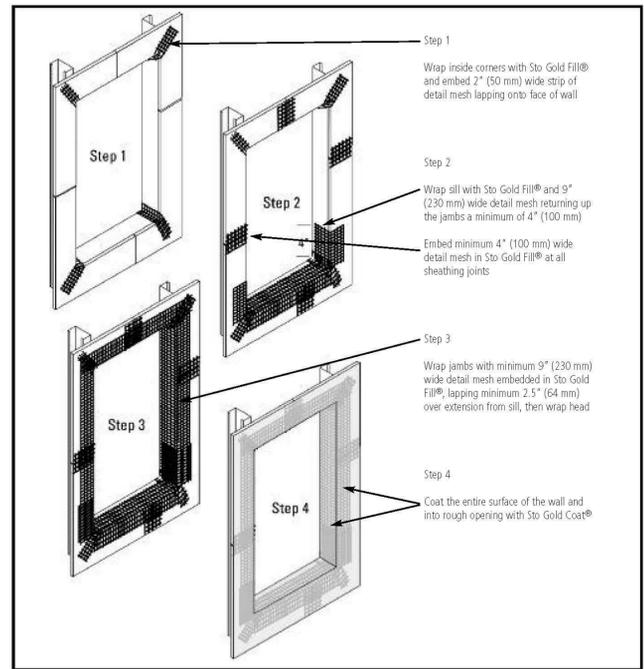
Date 01/20/14 DOB sheet

DOB NUMBER

220211955

StoTherm® NExT
Preparation of Rough Opening

Detail No.: 10.23a
Date: November 2001



- Notes:
- 1) Prepare opening prior to the installation of the window or mechanical equipment. Create a slope to the exterior at the sill with a sill wedge.
 - 2) Incorporate flashing as illustrated in 10.23b and 10.23c or as per other details where flashing is shown (e.g. 10.25).
 - 3) The complete installation of window or mechanical equipment should include an air seal between the object and the StoGuard™ protection inboard of the outer sealant joint.

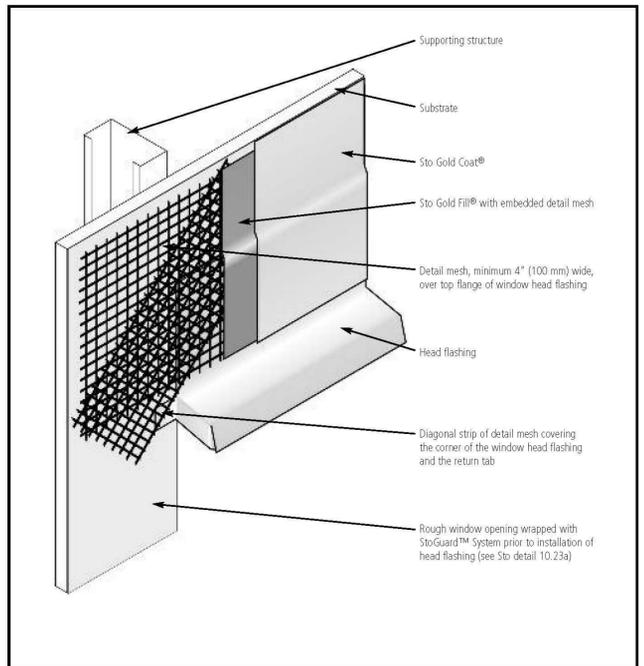
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Sto details are illustrations of construction. They are guidelines, intended for use by the design/construction professional, to assist in developing project specific details. They should be modified where necessary to accommodate individual project conditions. Refer to appropriate Sto specification for design requirements. Refer to local building code for any special requirements.

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StoTherm® NExT
Installation at Head Flashing

Detail No.: 10.23b
Date: November 2001



- Notes:
- 1) Provide head flashing as required by local building codes and window manufacturer.
 - 2) Coordinate StoGuard™ installation sequence with window installer and other related trades.

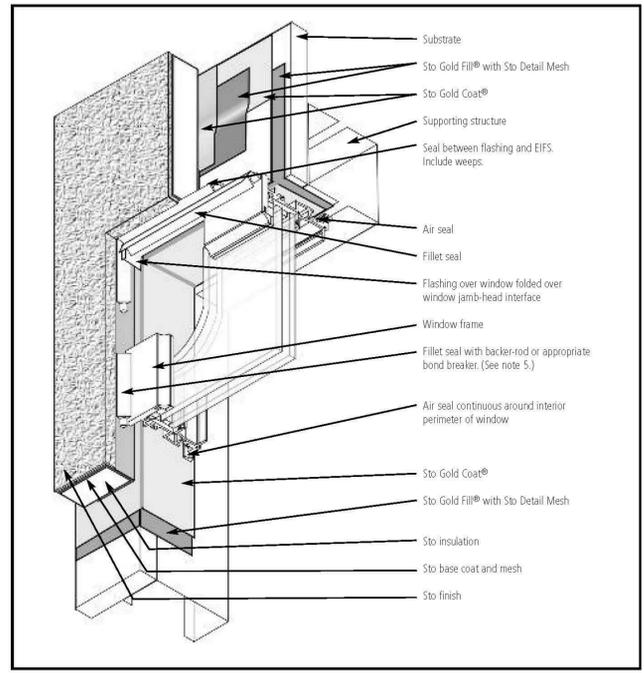
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StoTherm® NExT
Commercial Window Head

Detail No.: 10.24b
Date: November 2001



- Notes:
- 1) Provide a mock-up installation and test using materials and substrates associated with the project.
 - 2) Provide flashing installed over the window to direct water away from the window. Verify requirements for head flashing with local codes and window manufacturer. If not required, seal between window head and EIFS. (See Sto details 10.23a and 10.23c.)
 - 3) Protect rough opening against water penetration by wrapping with Sto Gold Fill with Sto Detail Mesh and Sto Gold Coat. Direct any water penetration to the exterior at or above the sill pan flashing. (See Sto details 10.25b and 10.26a.)
 - 4) Provide continuous air barrier connection around the perimeter of the window to reduce: leaking, condensation related to air movement, and sound and insect intrusion.
 - 5) Verify suitability of fillet seal configuration. Consult sealant and window manufacturer.

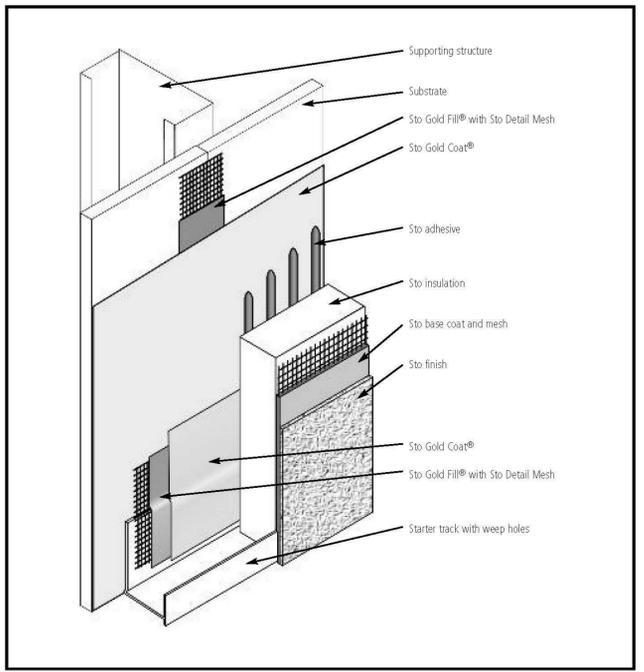
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StoTherm® NExT
System Components

Detail No.: 10.00
Date: November 2001

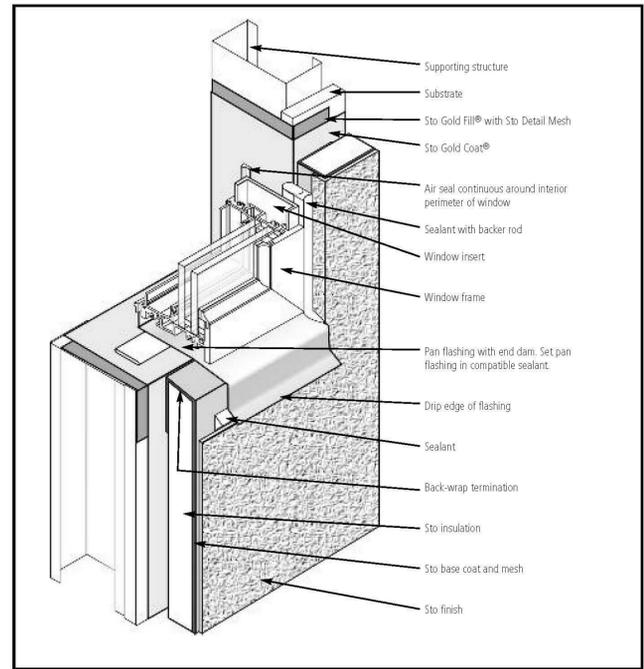


- Notes:
- Detail shows the components of a StoTherm® Exterior Insulation and Finish System (EIFS) with StoGuard™ Moisture Protection.
- StoGuard™:
- 1) Sto Gold Fill with Sto Detail Mesh
 - 2) Sto Gold Coat
- StoTherm®:
- 1) Sto adhesive
 - 2) Sto insulation
 - 3) Sto base coat
 - 4) Sto mesh
 - 5) Sto finish

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StoTherm® NExT
Commercial Window Sill

Detail No.: 10.26a
Date: November 2001



- Notes:
- 1) Provide a mock-up installation and test using materials and substrates associated with the project.
 - 2) Protect rough opening against water penetration by wrapping with Sto Gold Fill with Sto Detail Mesh and Sto Gold Coat. Direct any water penetration to the exterior at or above the sill pan flashing. (See Sto details 10.23a and 10.24a.)
 - 3) Provide continuous air barrier connection around the perimeter of the window to reduce: leaking, condensation related to air movement and sound and insect intrusion.
 - 4) Provide leak-proof sill pan flashing with end and back dams to catch any water penetration and direct it to the exterior of the wall assembly.
 - 5) Provide window insert to optimize sealant configuration.

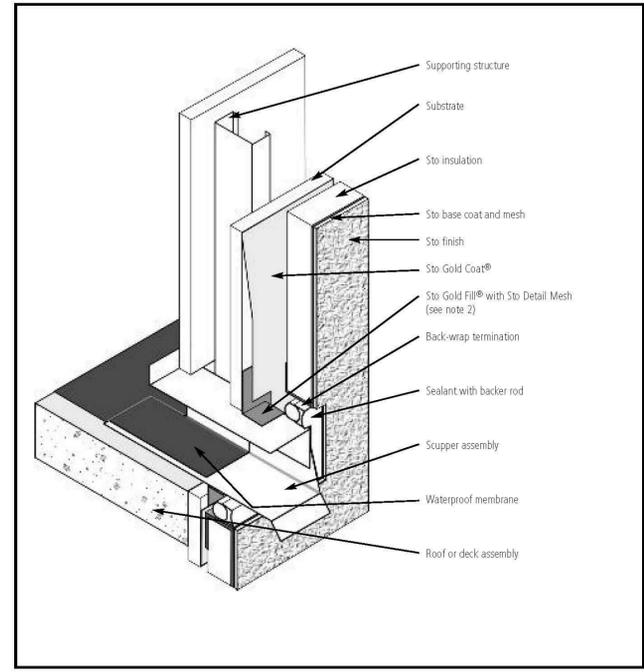
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StoTherm® NExT
Scupper Penetration

Detail No.: 10.17b
Date: November 2001



- Notes:
- 1) Provide leak-proof scupper assembly and installation to direct water away from the wall surface.
 - 2) Provide barrier membrane in lieu of Sto Gold Fill at penetration where joint between sheathing and penetrating element exceeds 1/8" (3 mm). Lap barrier membrane over Sto Gold Coat.

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Project
491 E. 165TH STREET
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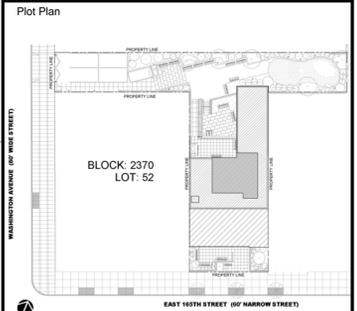
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Drawing Title
TYPICAL EIFS DETAILS

Sign & Seal

Job no. 12.08
Drawn by JPH
Checked by AM / TS
Sheet scale

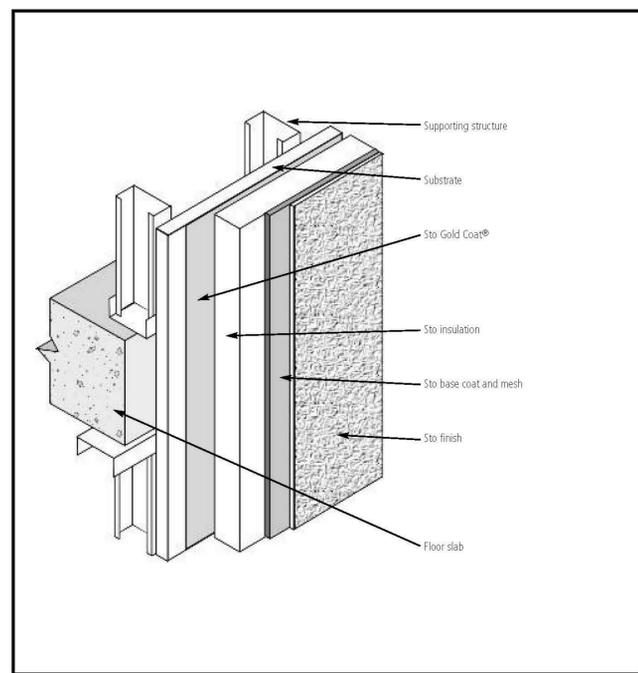
Drawing No.
A-340.00

Date 01/20/14 DOB sheet 29 OF 49

DOB NUMBER
220211955

StoTherm® NExT
Floor Line without Joint

Detail No.: 10.40
Date: November 2001



- Notes:
- 1) Restrict the use of this detail to low or medium rise construction with no floor line deflection.
 - 2) The maximum allowable sheathing span at the floor line is 4' (200 mm) or as recommended by the sheathing manufacturer.
 - 3) Offset sheathing joints from floor line minimum 8" (200 mm).

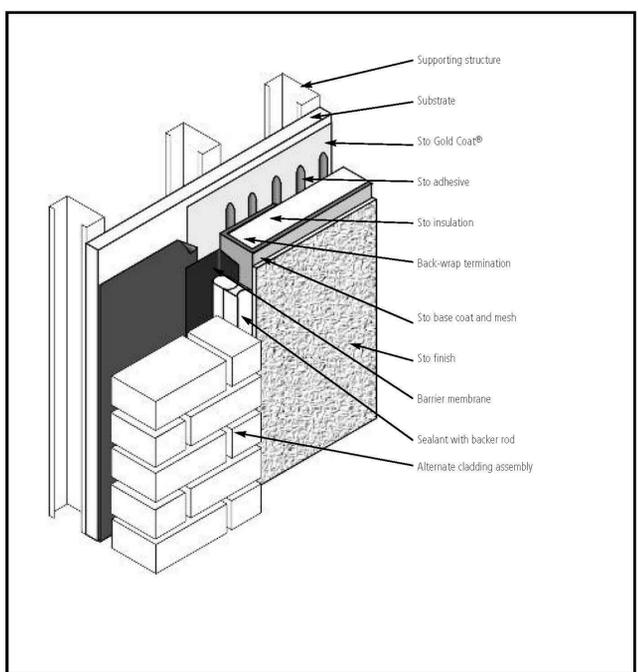
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StoTherm® NExT
Vertical Joint at Dissimilar Material

Detail No.: 10.50
Date: November 2001



- Notes:
- 1) Determine installation sequence in advance of construction. Coordinate substrates to ensure the proper installation of materials.
 - 2) Barrier membrane isolates the potentially wet environment behind the alternate cladding from the EIFS.
 - 3) Provide minimum 3/4" (20 mm) joint between the EIFS and the alternate cladding. Provide drainage for the joint assembly.

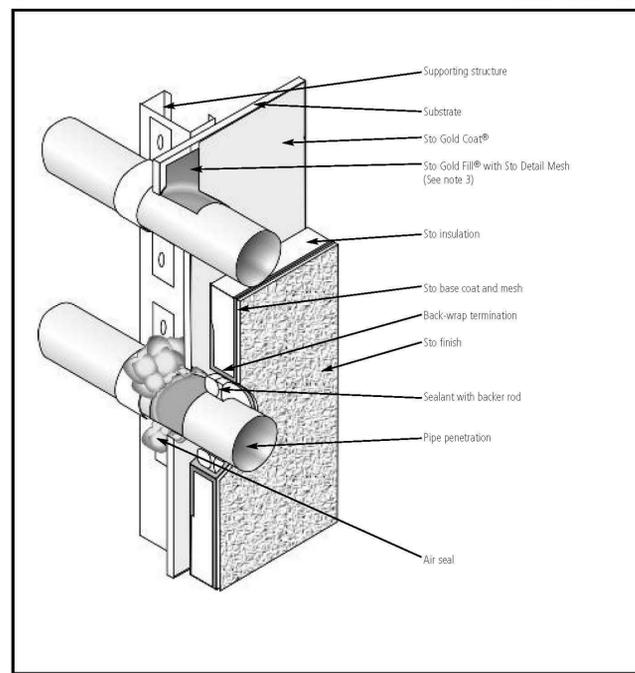
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Sto details are illustrations of construction. They are guidelines, intended for use by the design/construction professional, to assist in developing project specific details. They should be modified where necessary to accommodate individual project conditions. Refer to appropriate Sto specification for design requirements. Refer to local building code for any special requirements.

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StoTherm® NExT
System Prepared for Penetration

Detail No.: 10.70
Date: November 2001



- Notes:
- 1) Detail assumes pipe is installed prior to the EIFS or that its location has been identified.
 - 2) Prepare an opening in the EIFS with a joint of 1/2" (13 mm) around the penetration and provide sealant with a closed cell backer rod.
 - 3) Provide air seal around the interior side of the penetration to reduce the pressure difference across the outside sealant.

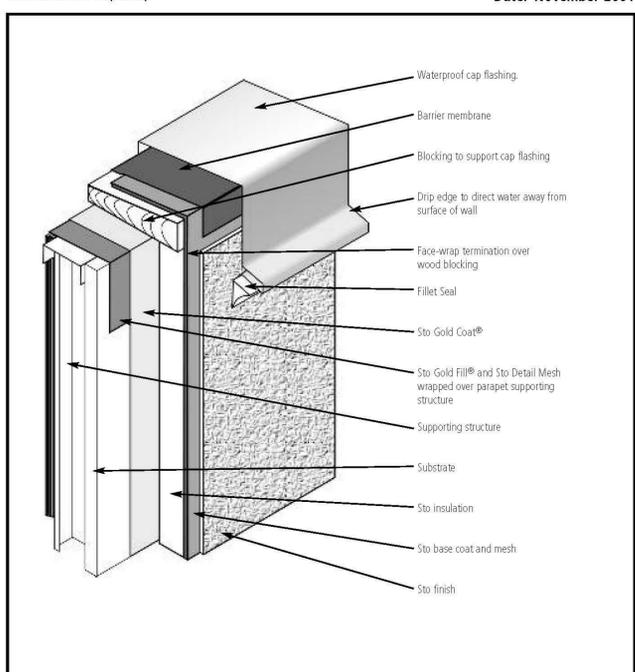
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www.stocorp.com 33

StoTherm® NExT
Termination at Parapet Cap

Detail No.: 10.60
Date: November 2001



- Notes:
- 1) Provide a barrier membrane over the parapet and integrate it with the roofing or deck waterproofing assembly. This provides air barrier continuity over the parapet and secondary weather protection under the cap flashing.
 - 2) Provide minimum 1.5" (38 mm) overlap of flashing over face of EIFS. Increase overlap with building height.
 - 3) Install StoGuard™ System over the parapet supporting structure lapping onto compatible sheathing.

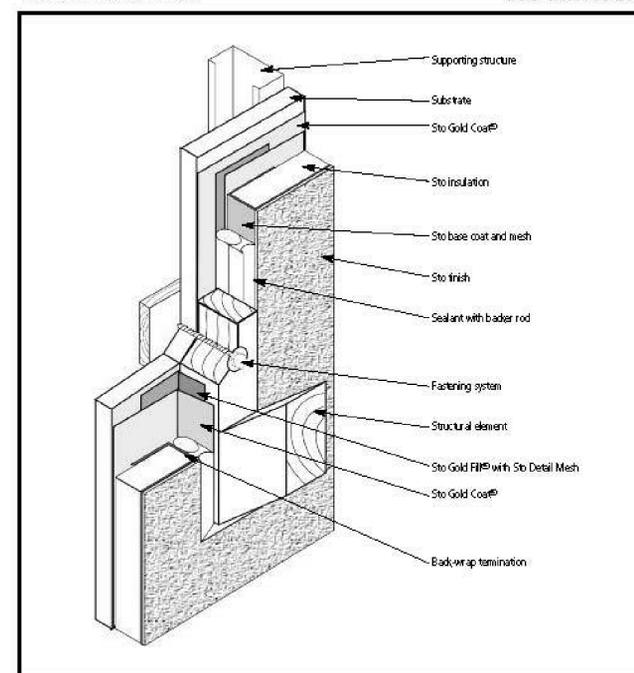
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StoTherm® NExT
Structural Connection to Substrate

Detail No.: 10.81a
Date: November 2001



- Notes:
- 1) Fasten structural element to the structure over an application of Sto Gold Coat®.
 - 2) Terminate the EIFS 1/2" (13 mm) away from the structural element to allow for the installation of its sealant and backer rod.

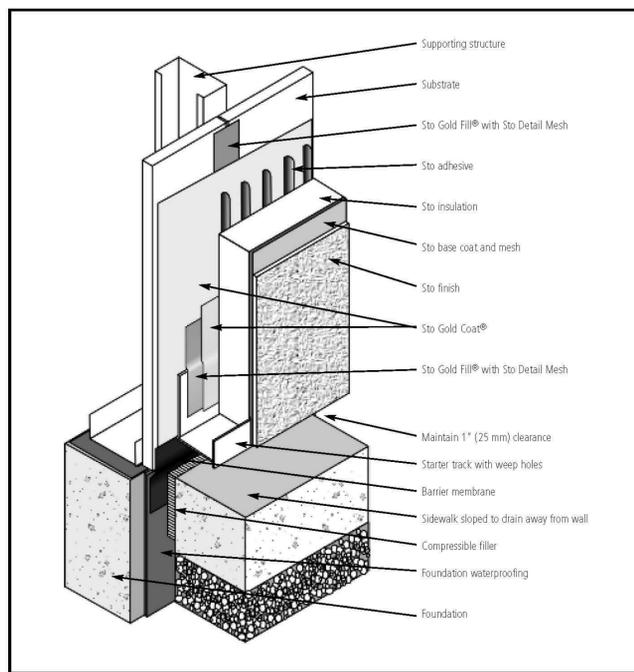
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StoTherm® NExT
Termination at Protected Sidewalk

Detail No.: 10.11
Date: November 2001



- Notes:
- 1) Restrict the use of this detail to weather-protected walls.
 - 2) Provide a positive slope of sidewalk away from the wall.
 - 3) Protect wall assembly from rising damp.
 - 4) Provide ultra-high impact resistance (Sto detail 1.00a) to a minimum height of 6'-0" (1.8 m) above finished grade at areas accessible to heavy pedestrian traffic and other areas exposed to abnormal stress or impact.

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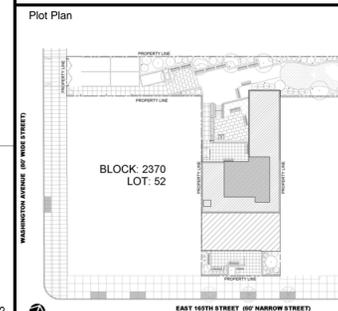
MEP ENGINEER
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115 W 30TH STREET STE 202, NEW YORK, NY 10001

CIVIL ENGINEER
MICHAEL WEIN, PE
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1 VANDERWATER CT, EAST BRUNSWICK, NJ 08816



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Issuance Schedule		
No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
TYPICAL EIFS DETAILS II

Sign & Seal
Job no. 12.08
Drawn by JPH
Checked by AM / TS
Sheet scale

Drawing No.
A-341.00

Date 01/20/14 DOB sheet 30 OF 49

DOB NUMBER
220211955

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 BRONX, NEW YORK 10456
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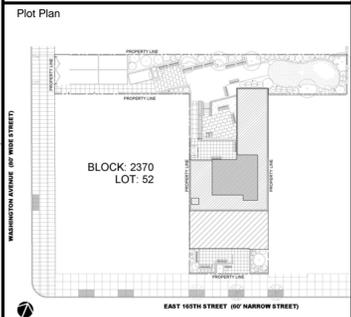
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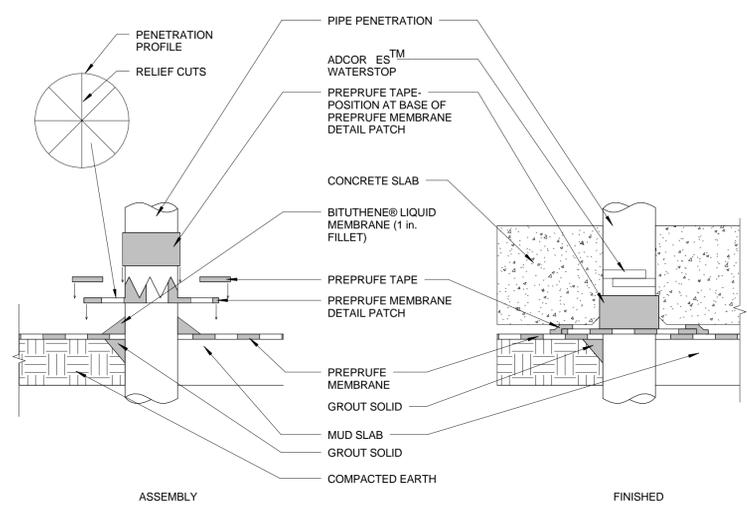


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Issuance Schedule		
No.	Date	Description
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	01/20/2014	DOB SUBMISSION

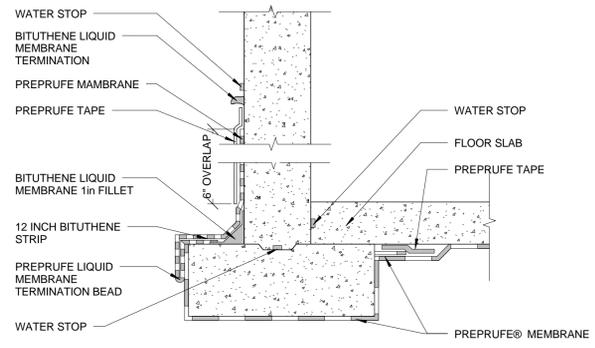
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TYPICAL WATERPROOFING DETAILS

Sign & Seal	Job no. 12.08
	Drawn by JPH
	Checked by AM / TS
	Sheet scale As indicated
	Drawing No. A-343.00
Date 01/20/14	DOB sheet 32 OF 49
DOB NUMBER 220211955	



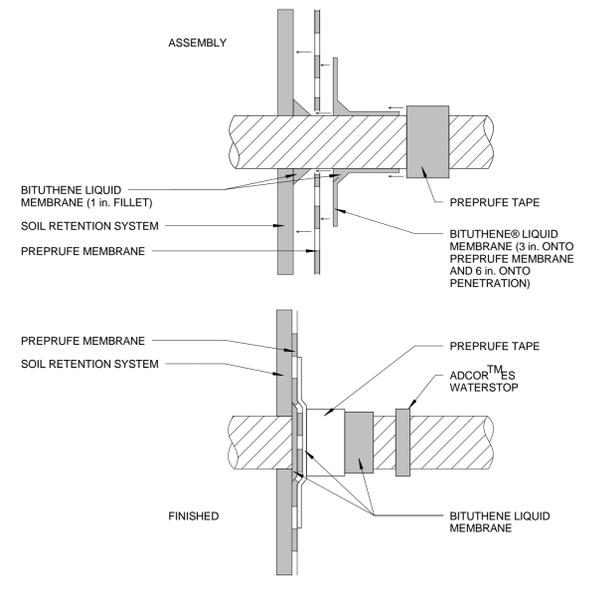
FOOTNOTE: ALL PENETRATIONS TO BE GROUTED. A MINIMUM OF 6 INCHES IS REQUIRED BETWEEN PENETRATIONS TO ENSURE DETAILING. AVOID PLACEMENT OF MULTIPLE PENETRATIONS.

7 PIPE PENETRATION FOR WALL OR SLAB
 SCALE: N.T.S.

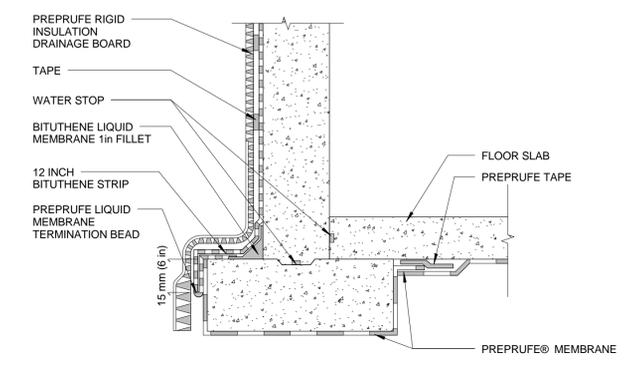


*NOTE: IF A MUDSLAB IS NOT USED, THE SUBSTRATE TO ACCEPT THE BITUTHENE LIQUID MEMBRANE MUST BE GROUTED SOLID TO PROVIDE AN ACCEPTABLE SUBSTRATE FOR THE LIQUID MEMBRANE.

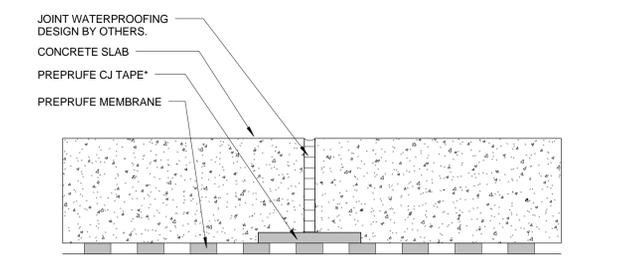
6 WALL TERMINATION
 SCALE: 3" = 1'-0"



5 REBAR, DOWEL AND ALL-THREAD PENETRATION
 SCALE: 3" = 1'-0"

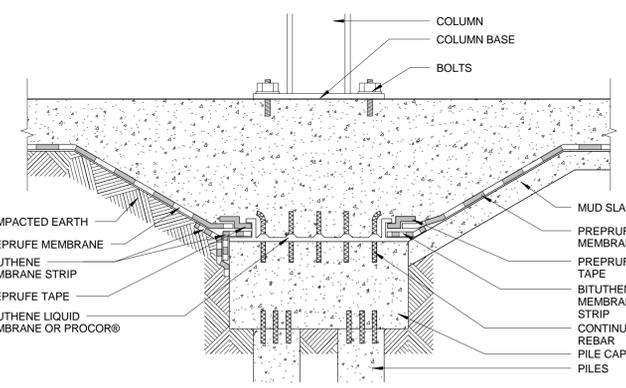


4 FOUNDATION WALL
 SCALE: 3" = 1'-0"

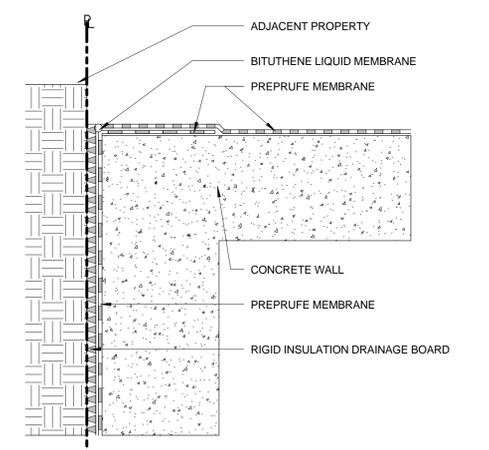


*NOTES: FOR JOINTS WITH EXPECTED MOVEMENT NOT TO EXCEED 13 mm (0.5 in.).

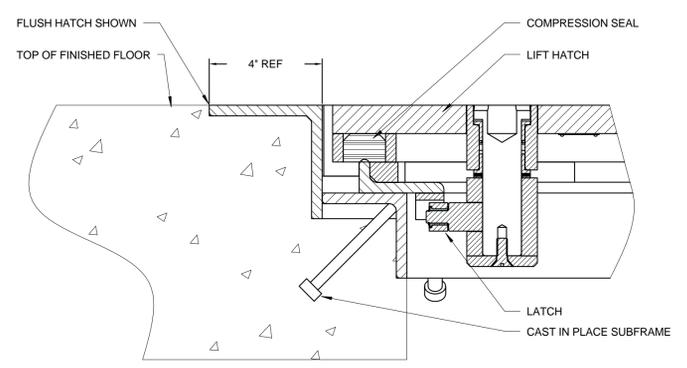
3 PLAN / SECTION AT JOINT
 SCALE: 3" = 1'-0"



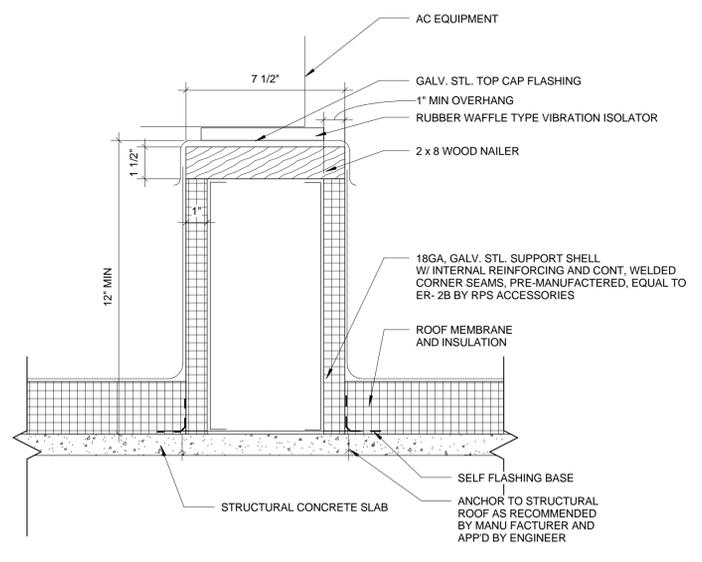
2 PILE CAP DETAIL
 SCALE: 3" = 1'-0"



1 PLAN / SECTION OF CORNER
 SCALE: 3" = 1'-0"



9 HATCH DOOR DETAIL @ GREASE TRAP & LINT INTERCEPTOR
 SCALE: 1" = 1'-0"



8 ROOF TOP EQUIPMENT CURB
 SCALE: 3" = 1'-0"

H G F E D C B A

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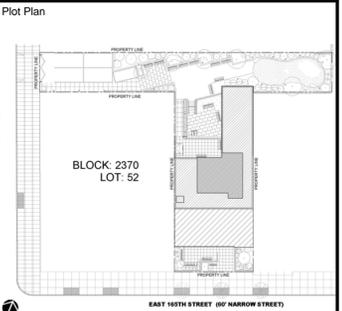
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	01/20/2014	DOB SUBMISSION

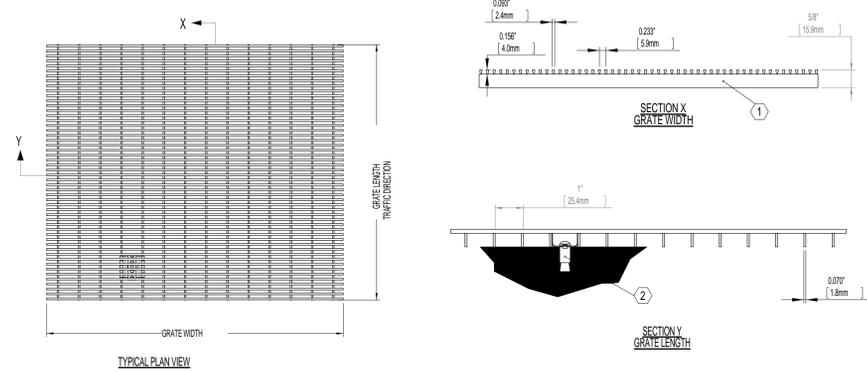
Drawing Title
TYPICAL INTERIOR DETAILS

Sign & Seal
 Job no. 12.08
 Drawn by JPH
 Checked by AM / TS
 Sheet scale As indicated
 Drawing No.
A-350.00

Date 01/20/14 DOB sheet 33 OF 49

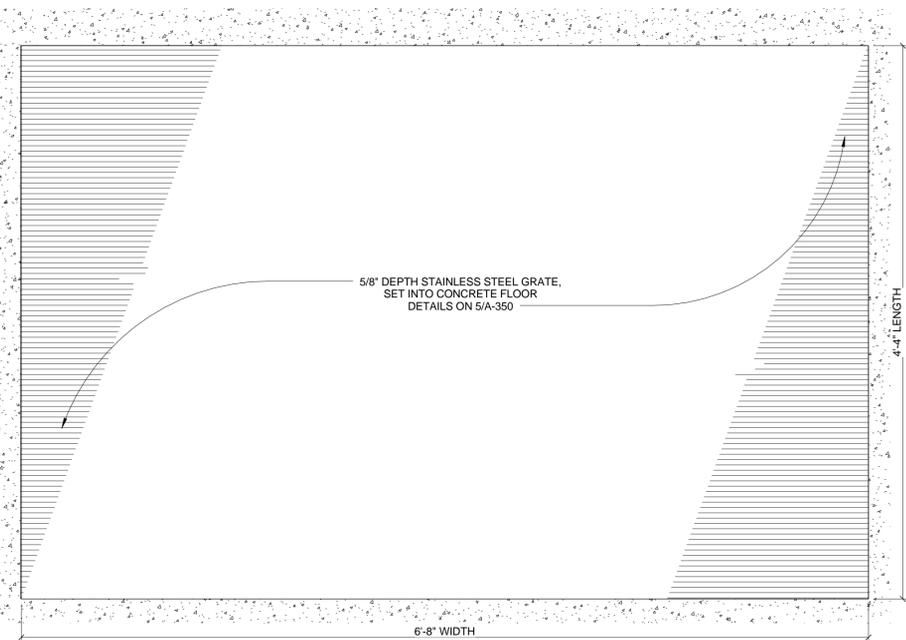
DOB NUMBER

220211955

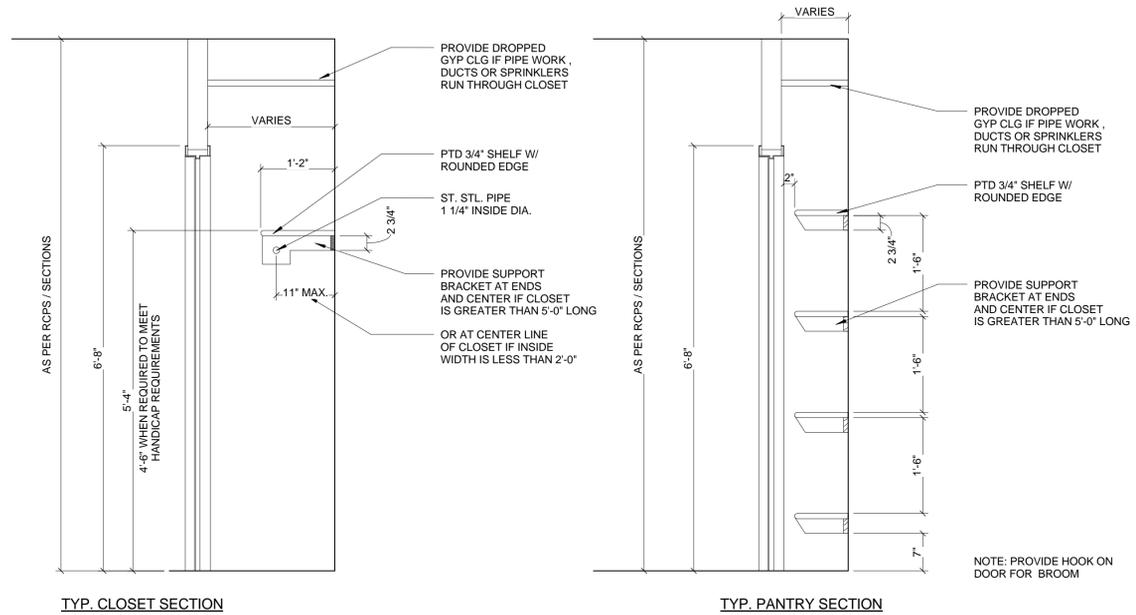


- Notes:
- Grates are made of type 304 stainless steel and are 5/8" (15.9mm) deep. Wire is 302 x 150 (2.4mm x 4.0mm), spaced 2.0" (5.0mm) O.C. with welded 201 (1.0mm) thick support rods spaced 1" (25.4mm) O.C.
 - Field installed hidden lockdown assembly with concrete anchor.
 - Grate surface wires must run perpendicular to traffic direction.
 - Frame options:
 * SS-5052F stainless steel angle frame, level bed, cast in place.
 * SS-5052D stainless steel angle frame, level bed, mechanically fastened.
 * F-1 aluminum recessed frame, level bed, cast in place.
 - Additional information can be found in the product specification and is considered part of this document.

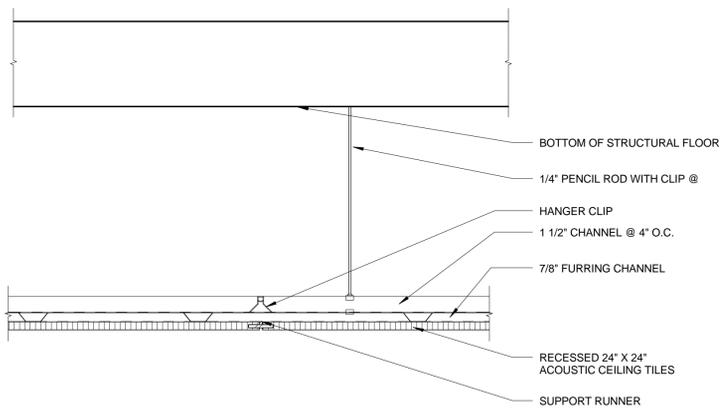
5 RECESSED ENTRY FLOOR GRATE - DETAILS
 6" = 1'-0"



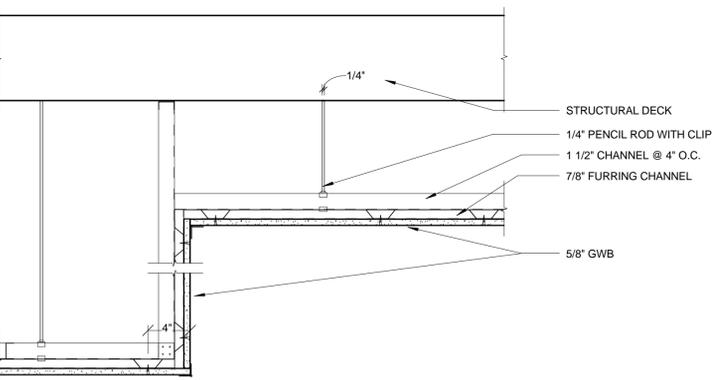
4 RECESSED ENTRY FLOOR GRATE @ VESTIBULE
 1 1/2" = 1'-0"



3 TYP. CLOSET & PANTRY DETAILS
 3/4" = 1'-0"



2 SUSPENDED ACOUSTICAL CEILING
 1 1/2" = 1'-0"



1 DROPPED GYP. CEILING DETAIL
 1 1/2" = 1'-0"

C:\Users\jph\My Documents\LOCAL RESOURCES\ETG\491 E. 165th Street.dwg - JPH - 12/16/13

Project
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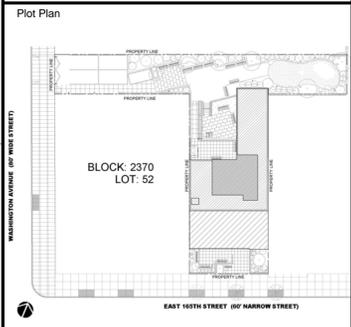
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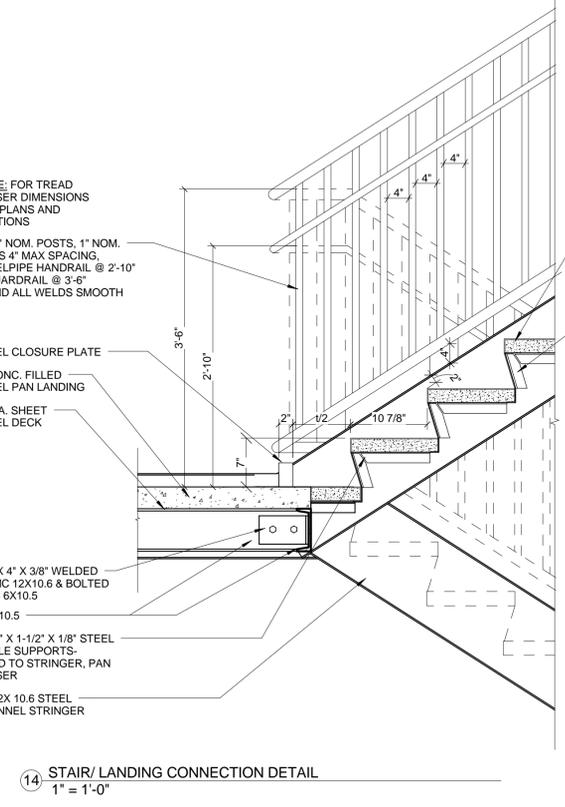
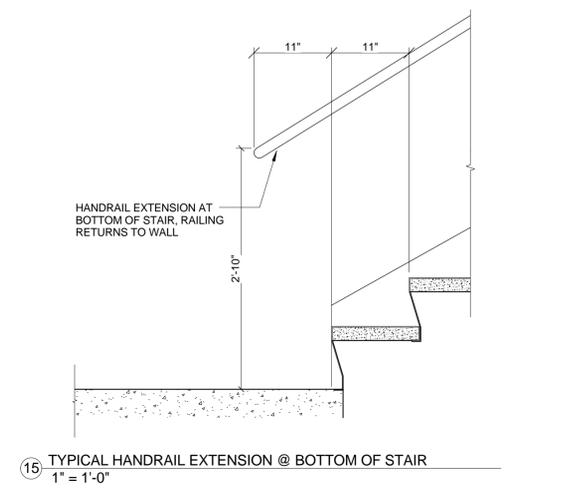
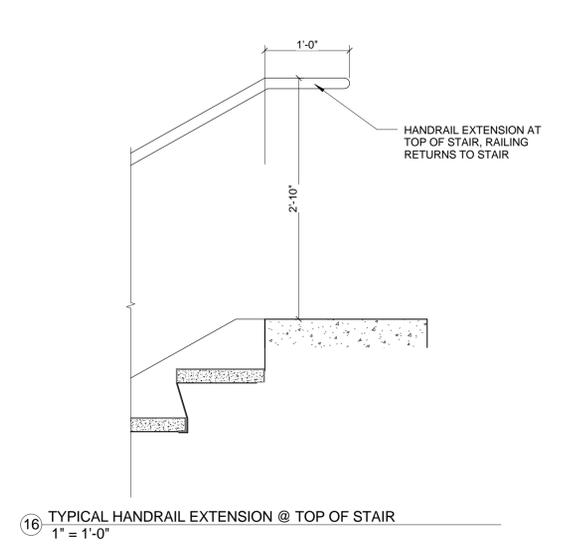
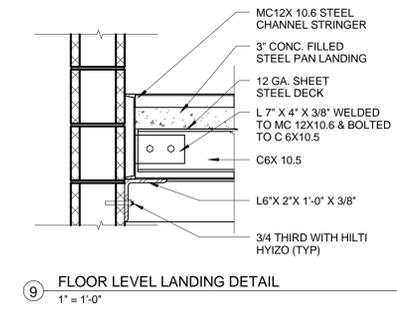
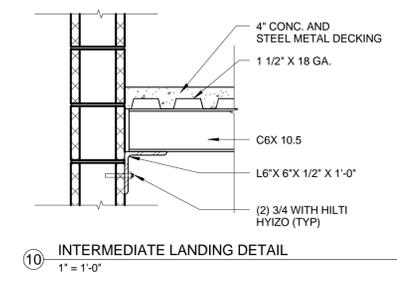
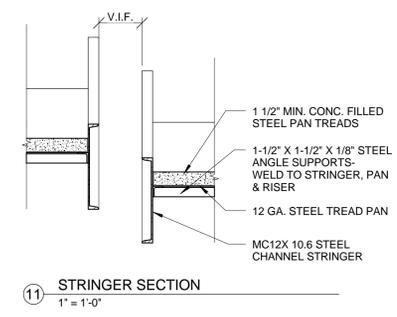
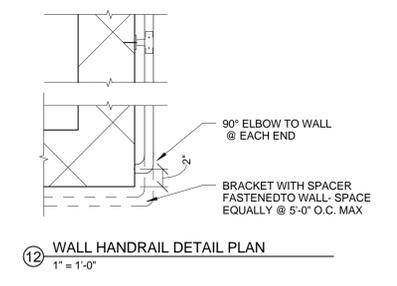
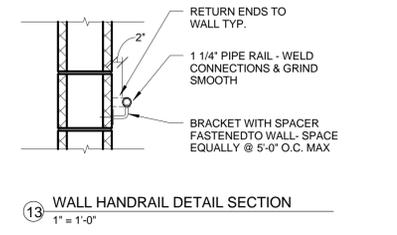
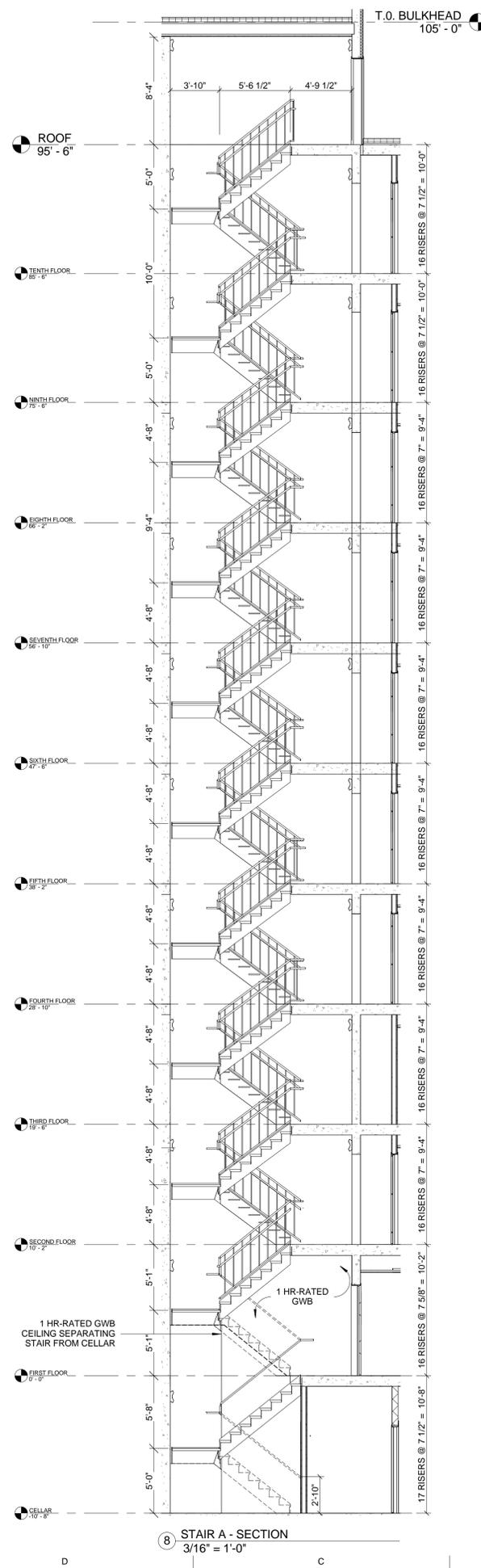
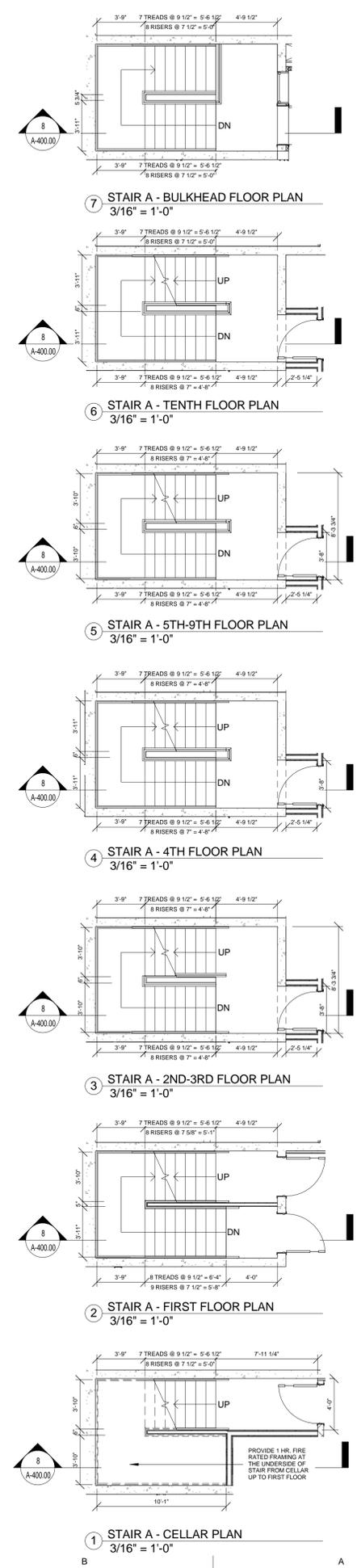
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Issuance Schedule		
No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
STAIR 'A' PLANS & SECTION & STAIR DETAILS

Sign & Seal	Job no. 12.08
	Drawn by JPH
	Checked by AM / TS
	Sheet scale As indicated
	Drawing No. A-400.00

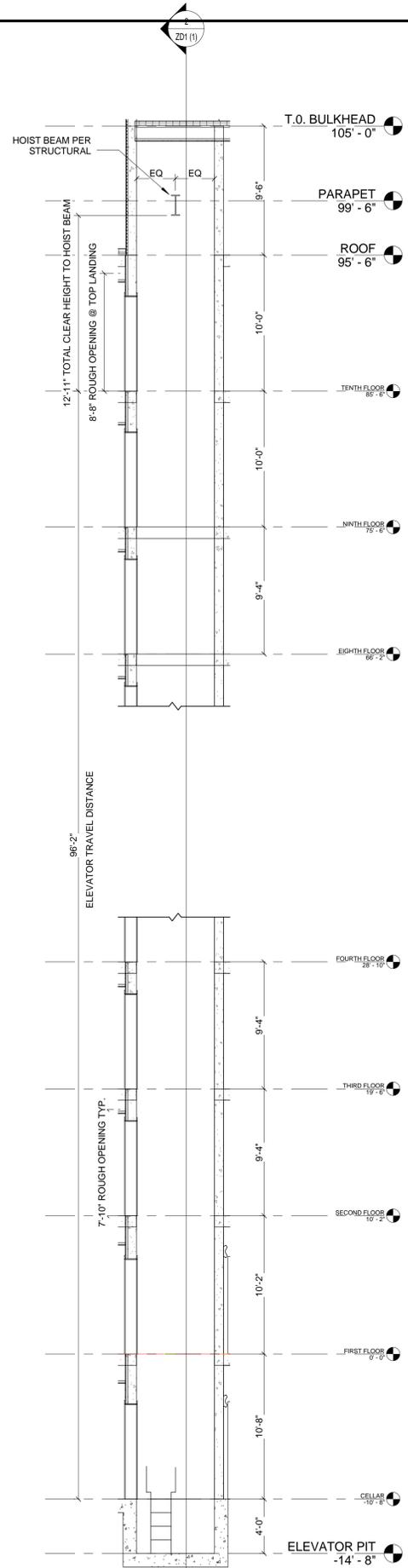
Date 01/20/14	DOB sheet 34 OF 49
DOB NUMBER 220211955	



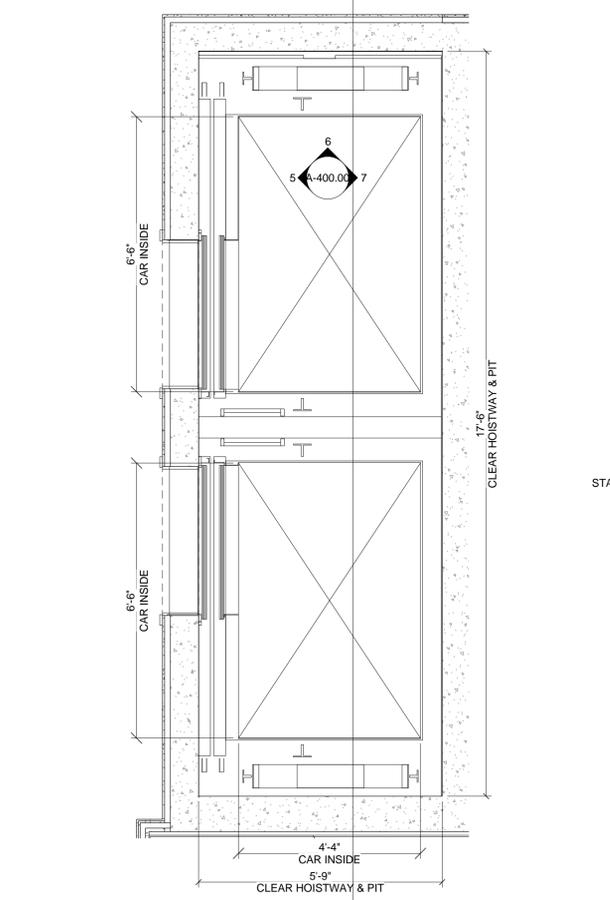
NOTE: FOR TREAD & RISER DIMENSIONS SEE PLANS AND SECTIONS

- 1 1/4" NOM. POSTS, 1" NOM. RAILS 4" MAX SPACING, STEEL PIPE HANDRAIL @ 2'-10" & GUARDRAIL @ 3'-6" GRIND ALL WELDS SMOOTH
- 1 1/2" MIN. CONC. FILLED STEEL PAN TREADS
- 1-1/2" X 1-1/2" X 1/8" STEEL ANGLE SUPPORTS WELDED TO STRINGER, PAN & RISER
- 12 GA. STEEL TREAD PAN
- MC12X 10.6 STEEL CHANNEL STRINGER
- 4" CONC. AND STEEL METAL DECKING
- 1 1/2" X 18 GA. C6X 10.5
- L6" X 6" X 1/2" X 1'-0"
- (2) 3/4 WITH HILTI HYIZO (TYP)
- 1 HR-RATED GWB CEILING SEPARATING STAIR FROM CELLAR
- 1 HR-RATED GWB
- 12 GA. SHEET STEEL DECK
- L 7" X 4" X 3/8" WELDED TO MC 12X10.6 & BOLTED TO C 6X10.5
- C6X 10.5
- 1-1/2" X 1-1/2" X 1/8" STEEL ANGLE SUPPORTS WELDED TO STRINGER, PAN & RISER
- MC12X 10.6 STEEL CHANNEL STRINGER
- 3" CONC. FILLED STEEL PAN LANDING
- 12 GA. SHEET STEEL DECK
- L 7" X 4" X 3/8" WELDED TO MC 12X10.6 & BOLTED TO C 6X10.5
- C6X 10.5
- L6" X 2" X 1'-0" X 3/8"
- 3/4 THIRD WITH HILTI HYIZO (TYP)

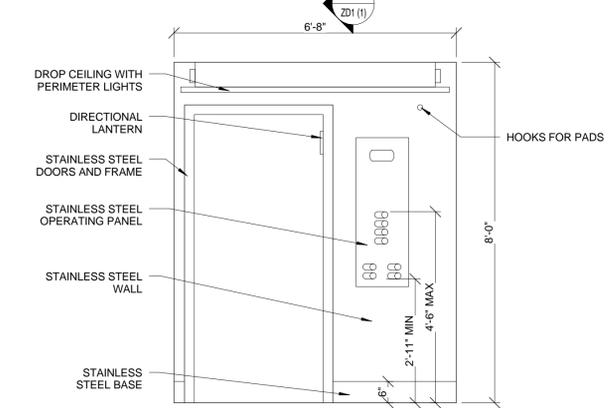
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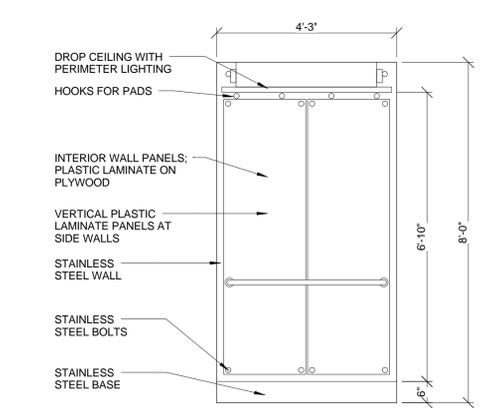
1 ELEVATOR SECTION
3/16" = 1'-0"



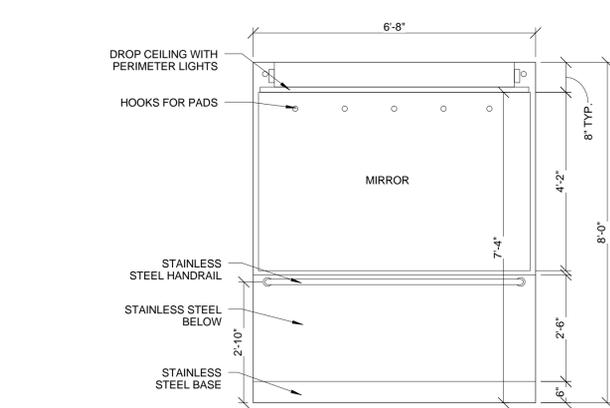
2 ELEVATOR PLAN
1/2" = 1'-0"



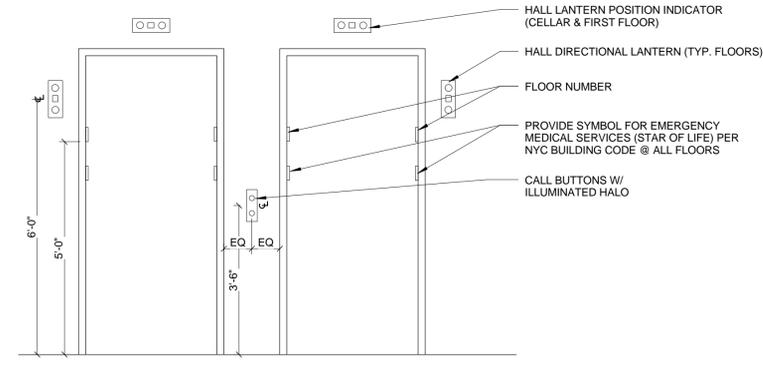
5 CAB - INTERIOR ELEVATION A
1/2" = 1'-0"



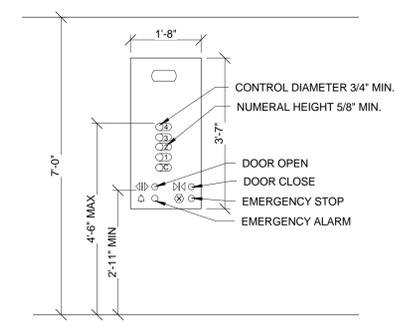
6 CAB - INTERIOR SIDE ELEVATION B - HORIZONTAL PANELS
1/2" = 1'-0"



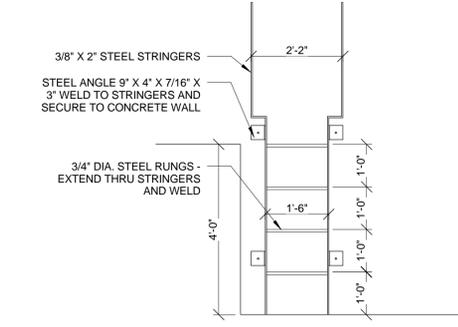
7 CAB - INTERIOR ELEVATION C - MIRRORED BACK
1/2" = 1'-0"



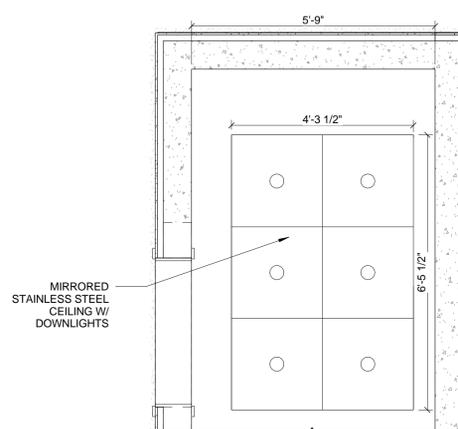
88 CORRIDOR ELEVATION
1/2" = 1'-0"



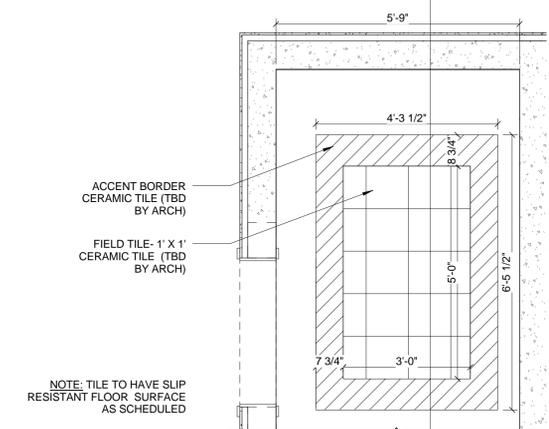
9 ELEVATOR CONTROL PANEL
1/2" = 1'-0"



10 PIT LADDER DETAIL
1/2" = 1'-0"



3 ELEVATOR CAB RCP
1/2" = 1'-0"



4 ELEVATOR CAB PLAN
1/2" = 1'-0"

Project
491 E. 165TH STREET
BRONX, NEW YORK 10456
Owner
PSCH, INC / CHRISTA
40 ELMONT ROAD, ELMONT, NY 11003
Sponsor
NEW YORK STATE
OFFICE OF MENTAL HEALTH

Architect
UAI URBAN ARCHITECTURAL INITIATIVES
233 Broadway, Suite 2150 New York, NY 10279
T: 212.979.1510 F: 212.979.1797 www.uai-ny.com

STRUCTURAL ENGINEER
YSRAEL A. SEINUK, PC
228 E 45TH STREET, NEW YORK, NY 10017

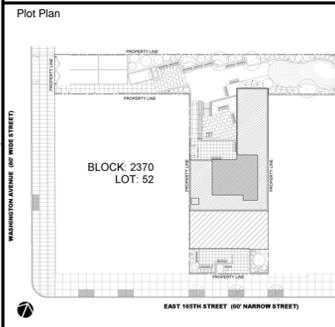
MEP ENGINEER
EMTG CONSULTANTS, INC
115 W 30TH STREET STE 202, NEW YORK, NY 10001

CIVIL ENGINEER
MICHAEL WEIN, PE
135 COUNTRY CLUB DR, MONROE TWP, NJ 08831

LANDSCAPE ARCHITECT:
LIZ FARRELL LANDSCAPE ARCHITECTURE, PLLC
523 6TH AVENUE, BROOKLYN, NY 11215

CODE CONSULTANT
DESIGN 2147, LTD
52 DIAMOND STREET, BROOKLYN, NY 11222

ESTIMATOR
CHAM ESTIMATING SERVICE
1 VANDERWATER CT, EAST BRUNSWICK, NJ 08816



For Department of Buildings Use

Issuance Schedule		
No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
ELEVATOR SECTION & DETAILS

Sign & Seal
Job no. 12.08
Drawn by JPH
Checked by AM / TS
Sheet scale As indicated
Drawing No.
A-410.00

Date 01/20/14 DOB sheet 36 OF 49
DOB NUMBER

220211955

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Project
491 E. 165TH STREET
 BRONX, NEW YORK 10456
 Owner
PSCH, INC / CHRISTA
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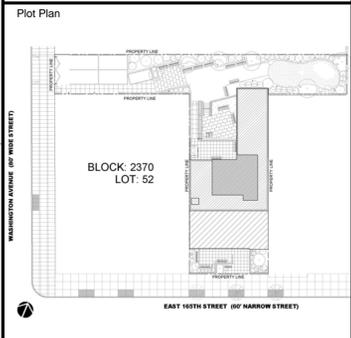
MEP ENGINEER
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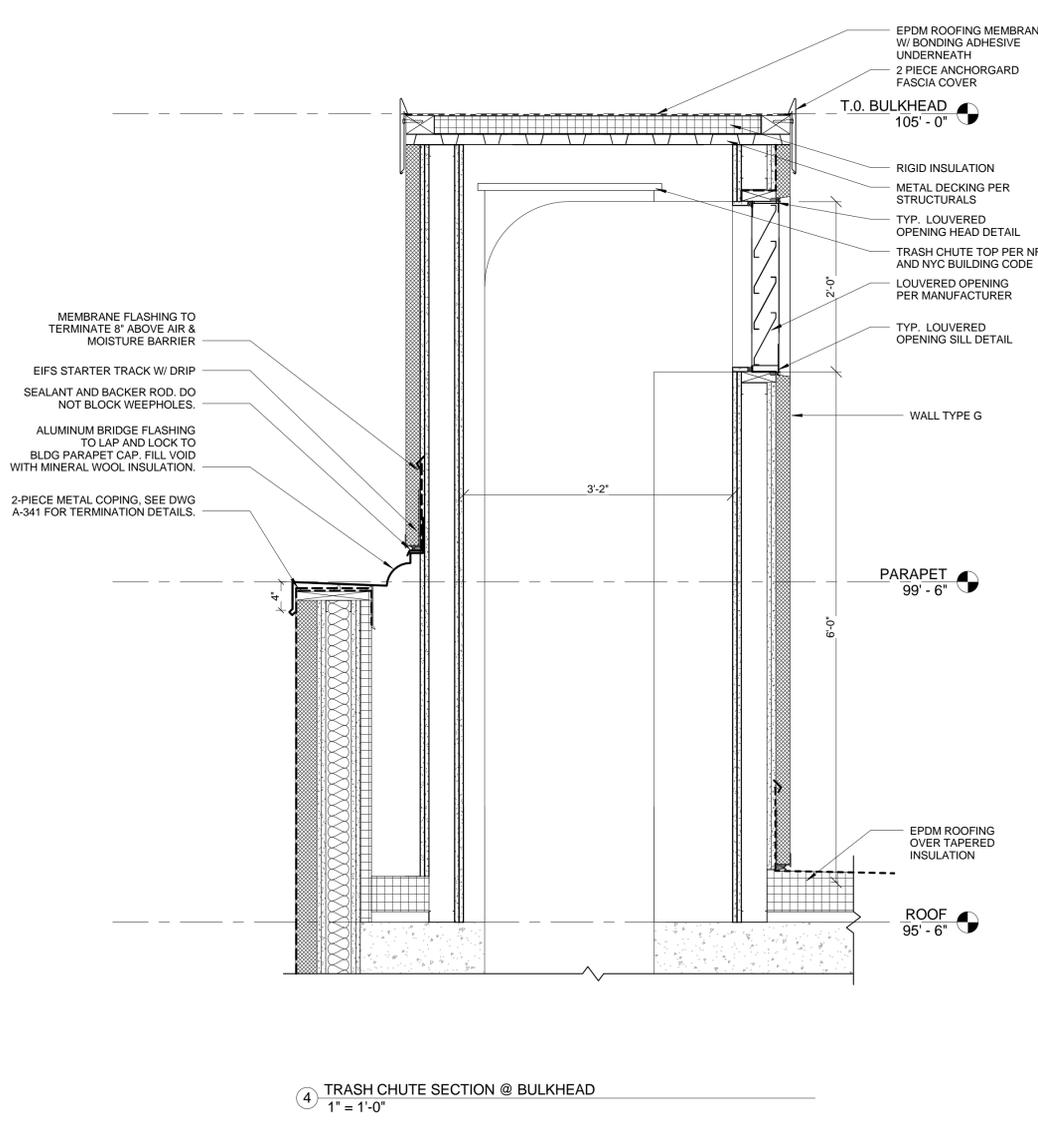
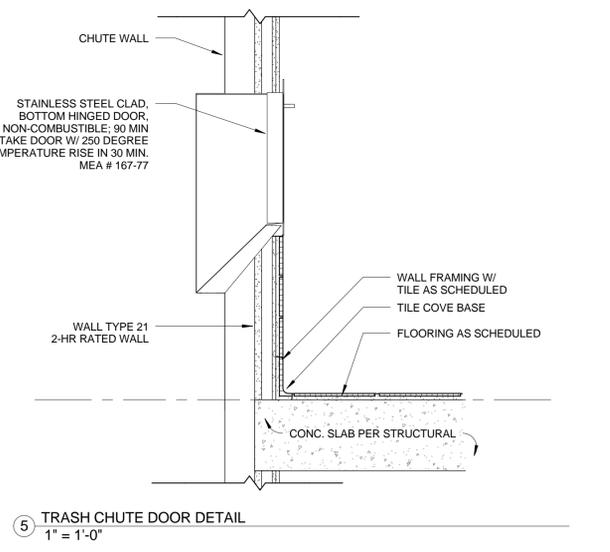
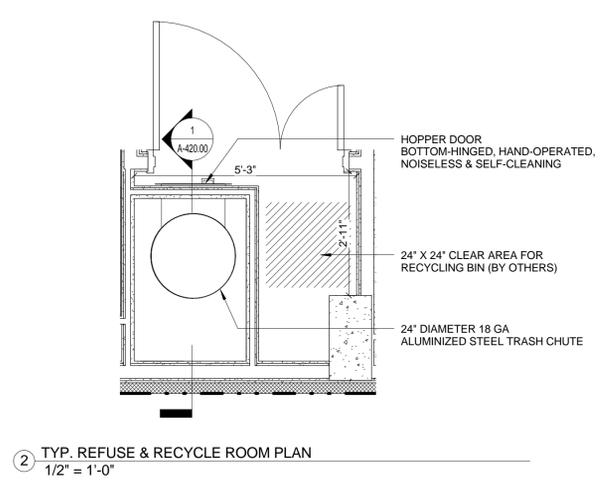
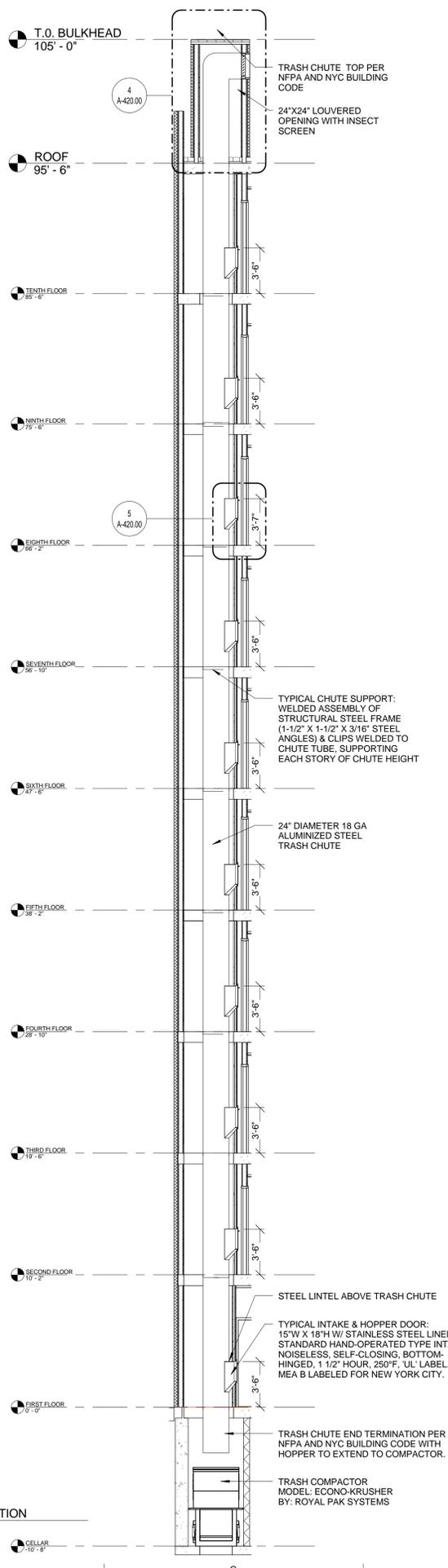


For Department of Buildings Use

Issuance Schedule		
No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
TRASH CHUTE SECTION & DETAILS

Sign & Seal	Job no.	12.08
	Drawn by	JPH
Date	Checked by	AM / TS
	Sheet scale	As indicated
DOB NUMBER	Drawing No.	A-420.00
	Date	01/20/14
	DOB sheet	37 OF 49
220211955		



H G F E D C B A

SHEET NOTES

SCHEDULED WALL DETAILS ARE BASIC MATERIAL AND COMPONENTS OF TYPICAL SCHEDULED WALLS. REFER TO MANUFACTURERS DETAILS, UL DETAILS, DETAIL SHEETS AND SPECIFICATION FOR FURTHER DETAILS FOR SPECIFIC AREAS SUCH AS TRIMS, TERMINATION, PENETRATIONS AND APPLICATIONS.

- PROVIDED 5/8" THICK MOISTURE RESISTANT GYP. BD. AT ALL BATHROOMS, KITCHENS, WINDOW RETURN WALLS, ETC. AS SHOWN IN DETAILS. FIRECODE MR. BOARD REQUIRED AT RATED PARTITIONS, 5/8" CEMENTITIOUS BACKER BOARD REQUIRED AT FULL WALL OF TUB SURROUND, AND OTHER "WET AREAS"
- REFER TO FINISH DETAILS FOR CEILING DETAILS.
- ALL LOAD BEARING WALLS TO BE RATED AS PER CONSTRUCTION CLASSIFICATION. REFER TO STRUCTURAL DWGS FOR LOAD BEARING WALLS.
- USE 1" TYPE S DRYWALL SCREWS @ 8" O.C. AT VERTICAL JOINTS AND 12" O.C. AT FLOOR AND CEILING RUNNERS AND INTERMEDIATE STUDS.
- STAGGER GYP. BD. JOINTS AT 24" ON EACH SIDE AND ON OPPOSITE SIDES.
- PROVIDE FIRE STOPPING AT ALL OPENINGS AND UNDERSIDE OF JOISTS.
- LIMITING HEIGHT SCHEDULE:

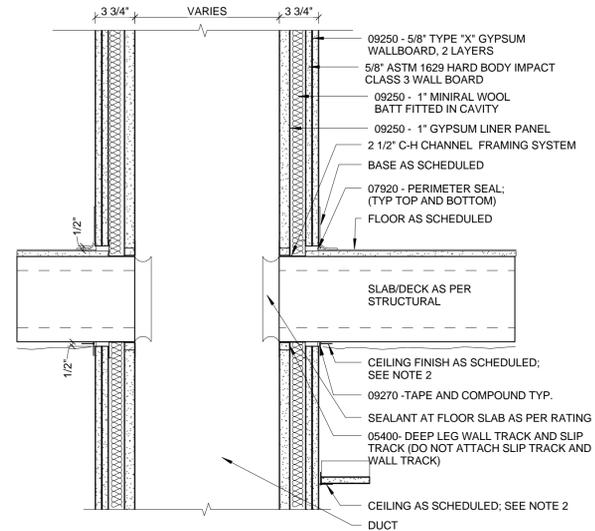
U.S.C. METAL STUD SIZE	MAX. PARTITION HEIGHT
1-5/8"	9'
2-1/2"	12'
3-5/8"	18'

- ALL SPECIFIED MATERIALS TO HAVE U.L. CLASSIFICATION MARKING.
- METAL FRAMING TO BE STEEL NOT ALUMINUM.
- ALL INTERIOR WALL STUDS AND FURRING MEMBERS TO BE 24-35 GA. GALV. STEEL UNLESS OTHERWISE NOTED IN DETAILS OR SPECIFICATIONS.
- ALL STUDS AND FURRING MEMBERS AT 16" O.C. UNLESS OTHERWISE NOTED OR REQUIRED TO MEET DEFLECTION RATING.
- USE 5/8" THICK GYP. BD. (TYPE X IN AREA INDICATED AS RATED IN PARTITION TYPES) AT ALL WALLS, CEILINGS, FOYERS, CLOSETS, ARCHWAY TO KITCHEN, IN ALL ROOMS OF APARTMENTS, PUBLIC SPACES AND COMMERCIAL SPACES.
- FIRE OR SMOKE RATED PARTITIONS TO BE CONTINUOUS FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE ALL OPENINGS (DOORS), PENETRATIONS (DUCTS, PIPES) CONNECTIONS AND JOINTS (CAULKING AND INSULATION) SHALL BE RATED TO MAINTAIN PARTITION'S RATING.
- FIRE OR SMOKE RATED PARTITIONS SHALL BE UL LABELED AND SHALL CONFORM TO THE CODE REQUIREMENTS.
- PROVIDE 3" THERMAFIBER SAFB (SOUND ATTENUATION FIRE BLANKET) INSULATION AT ALL DEMISING WALLS, PLUMBING RISERS, MECHANICAL RISERS, BEARING METALWOOD STUD WALLS, AND BATHROOM WALLS (MEA 208-82-M).
- PROVIDE FIRE RATING AS NOTED ON PLANS.
- CMU BLOCK SHALL HAVE THE FOLLOWING MIN. EQUIVALENT THICKNESS TO ACHIEVE THE REQUIRED FIRE RATING

FIRE RATING	1 HR.	2 HR.	3 HR.	4 HR.
	3.80	4.78	5.60	

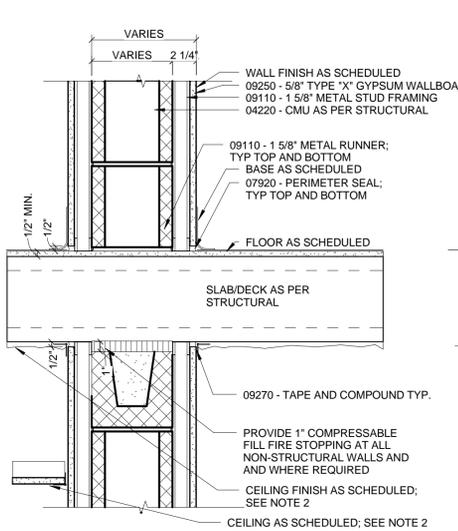
PROVIDE SOLID OR SOLID FILL BLOCK WHERE REQUIRED TO ACHIEVE FIRE RATING

- MEMBRANE PENETRATION AND THROUGH PENETRATION OF FIRE-RESISTANCE- RATED WALLS, INCLUDING RECESSED RECEPTACLE BOXES, ETC. SHALL BE PROTECTED IN ACCORDANCE WITH NYC BUILDING CODE 712.3



21 DUCT ENCLOSURE / SHAFTWALL*
2 HR RATED UL #415, BSA 542-68-SM 1-1/2" = 1'-0"

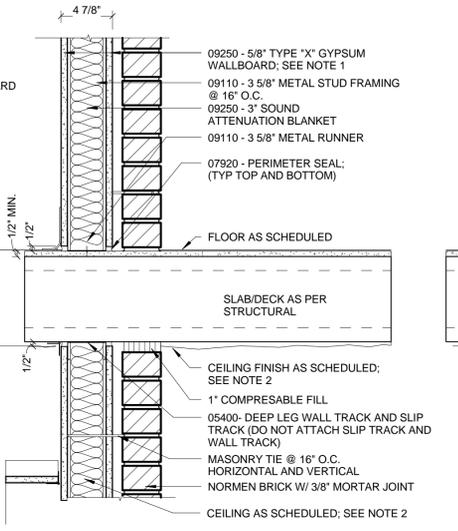
*Elevator and stair assembly shall be tested by an approved testing agency to ASTM C1629, Soft Body Impact Classification Level 2. Wall assemblies shall be anchored to structural members and shall comply with the structural requirements of the building code. The installation shall be subject to special inspection.



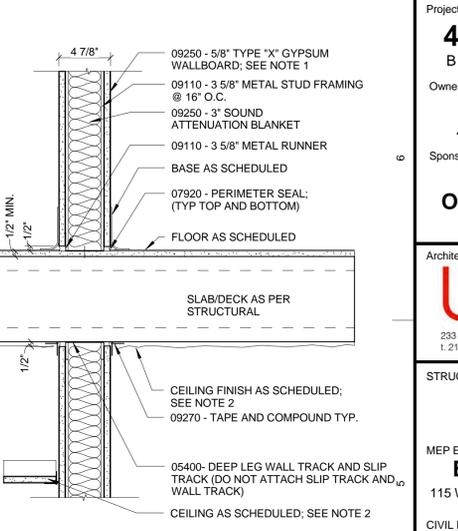
12A LOAD BEARING MASONRY WALL - 6" CMU (W/ GWB FINISH BOTH SIDES)
3 HR FIRE RATING
3 HR WHERE NOTED ON PLAN

12B LOAD BEARING MASONRY WALL - 8" CMU (W/ GWB FINISH BOTH SIDES)
3 HR FIRE RATING
3 HR WHERE NOTED ON PLAN

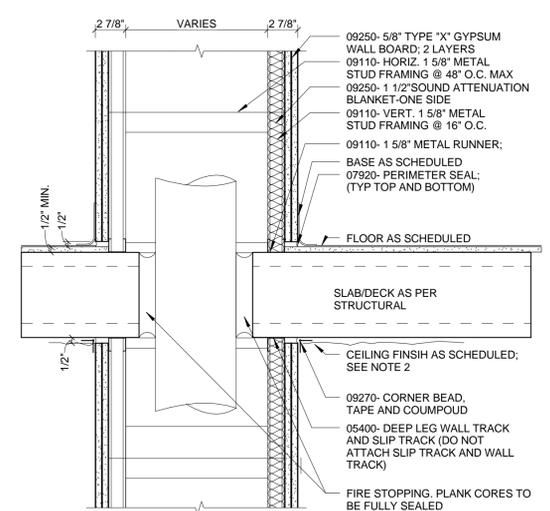
12C LOAD BEARING MASONRY WALL - 12" CMU (W/ GWB FINISH BOTH SIDES)
2 HR FIRE RATING, STC 52 1-1/2" = 1'-0"



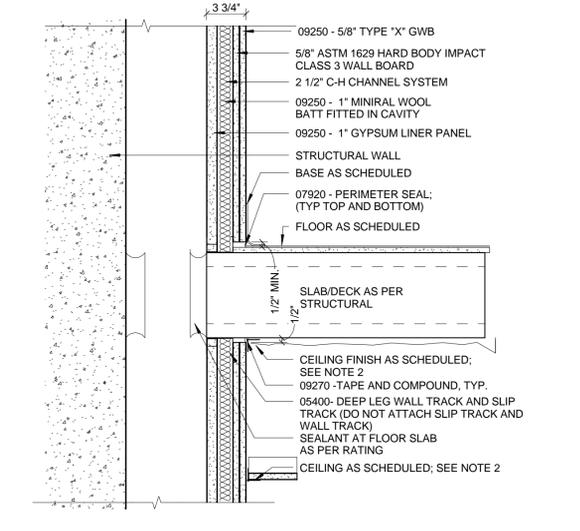
5 NON-LOAD BEARING STUD WALL WITH BRICK VENEER
1 HR RATED UL #419, STC 52 1-1/2" = 1'-0"



3A NON-LOAD BEARING STUD WALL (BTWN APTS)
1 HR RATED UL #419, STC 52 1-1/2" = 1'-0"

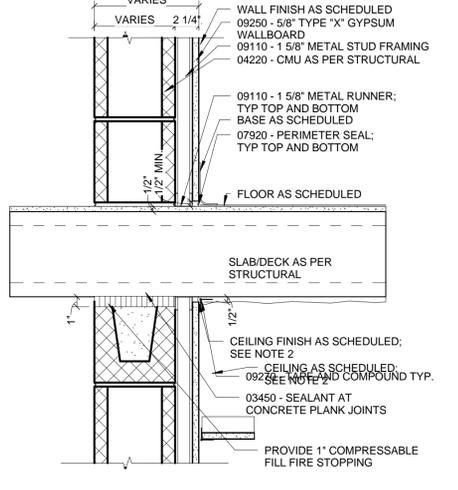


23 CHASE ENCLOSURE
2 HR RATED UL #420, STC 57 1-1/2" = 1'-0"



20 DUCT ENCLOSURE / SHAFTWALL AT STRUCTURAL WALL*
2 HR RATED UL #415, BSA 542-68-SM 1-1/2" = 1'-0"

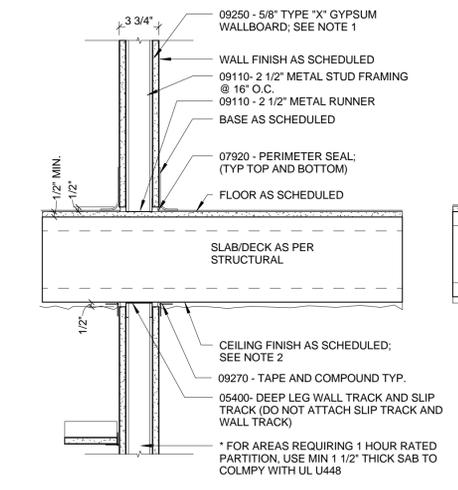
*Elevator and stair assembly shall be tested by an approved testing agency to ASTM C1629, Soft Body Impact Classification Level 2. Wall assemblies shall be anchored to structural members and shall comply with the structural requirements of the building code. The installation shall be subject to special inspection.



11A MASONRY WALL 6" CMU - (W/ GWB FINISH ONE SIDE)
2 HR FIRE RATING
3 HR WHERE NOTED ON PLAN

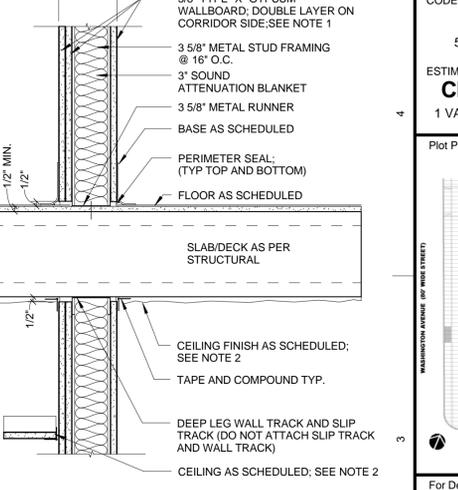
11B MASONRY WALL 8" CMU - (W/ GWB FINISH ONE SIDE)
2 HR FIRE RATING
3 HR WHERE NOTED ON PLAN

11C MASONRY WALL 12" CMU - (W/ GWB FINISH ONE SIDE)
2 HR FIRE RATING
3 HR WHERE NOTED ON PLAN

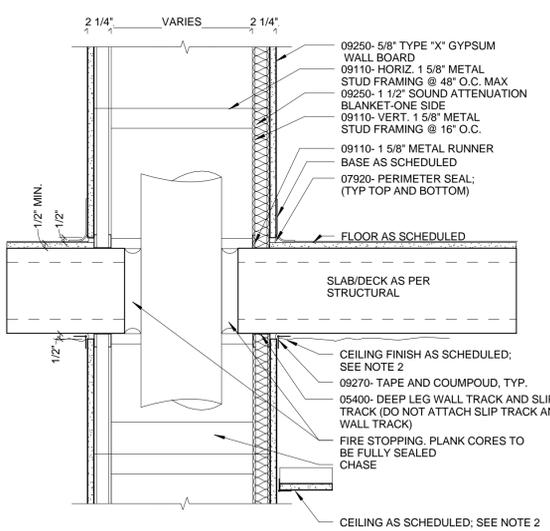


4 NON-LOAD BEARING STUD WALL (APT. PARTITION)
UNRATED, * 1 HOUR RATED UL U448 WHERE NOTED.

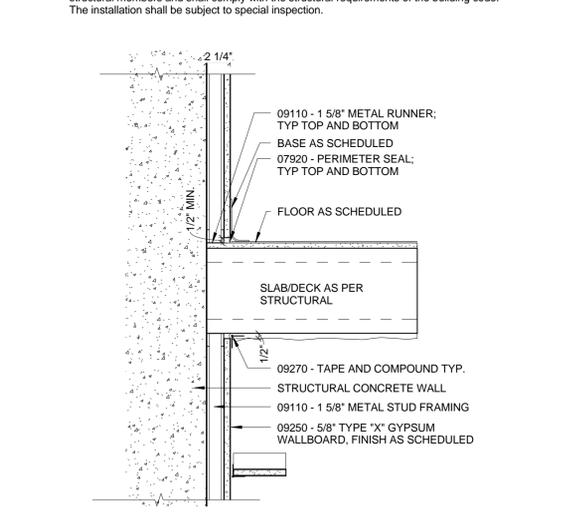
4A NON-LOAD BEARING STUD WALL (6\"/>



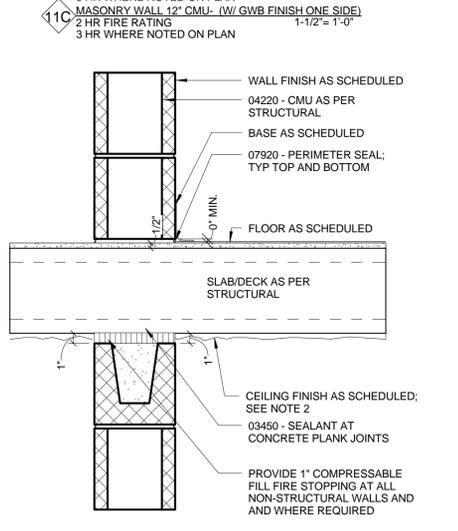
2 NON-LOAD BEARING STUD WALL (@ CORRIDORS)
1 HR RATED UL #419, STC 52 1-1/2" = 1'-0"



22 CHASE ENCLOSURE
1 HR RATED UL #420, BSA 945-83-SM 1-1/2" = 1'-0"



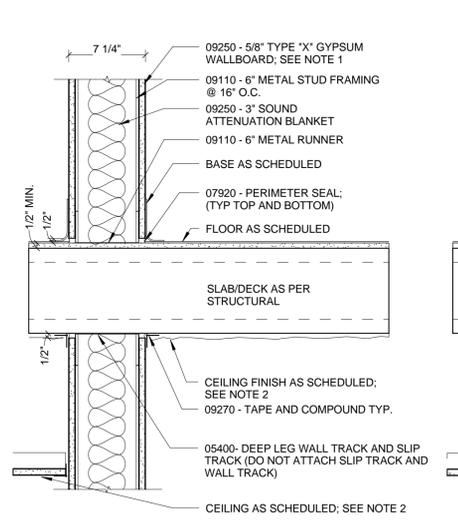
15 MASONRY WALL 6\"/>



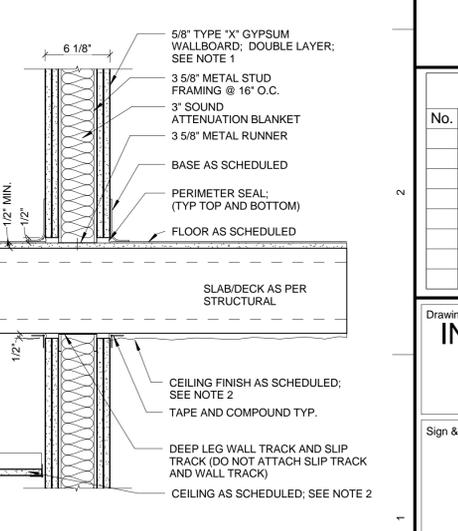
10A MASONRY WALL 6\"/>

10B MASONRY WALL 8\"/>

10C MASONRY WALL 12\"/>



3B NON-LOAD BEARING STUD WALL (BTWN APTS)
1 HR RATED UL #419, STC 52 1-1/2" = 1'-0"



1 NON-LOAD BEARING STUD WALL (@ EXIT PASSAGEWAYS)
2 HR RATED UL #411, STC 52 1-1/2" = 1'-0"

Project
491 E. 165TH STREET
BRONX, NEW YORK 10456

Owner
PSCH, INC / CHRISTA
40 ELMONT ROAD, ELMONT, NY 11003

Sponsor
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OFFICE OF MENTAL HEALTH

Architect
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STRUCTURAL ENGINEER
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228 E 45TH STREET, NEW YORK, NY 10017

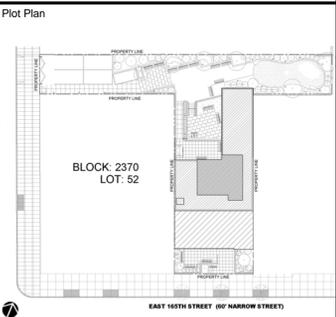
MEP ENGINEER
EMTG CONSULTANTS, INC
115 W 30TH STREET STE 202, NEW YORK, NY 10001

CIVIL ENGINEER
MICHAEL WEIN, PE
135 COUNTRY CLUB DR, MONROE TWP, NJ 08831

LANDSCAPE ARCHITECT:
LIZ FARRELL LANDSCAPE
ARCHITECTURE, PLLC
523 6TH AVENUE, BROOKLYN, NY 11215

CODE CONSULTANT
DESIGN 2147, LTD
52 DIAMOND STREET, BROOKLYN, NY 11222

ESTIMATOR
CHAM ESTIMATING SERVICE
1 CHAMWATER CT, EAST BRUNSWICK, NJ 08816



For Department of Buildings Use

Issuance Schedule		
No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
INTERIOR PARTITION SCHEDULE

Job no.	12.08
Drawn by	JPH
Checked by	AM / TS
Sheet scale	As indicated
Drawing No.	A-500.00

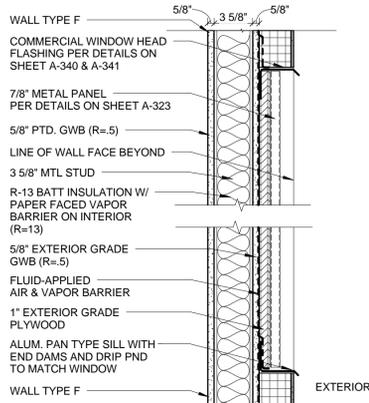
Date 01/20/14 DOB sheet 38 OF 49
DOB NUMBER
220211955

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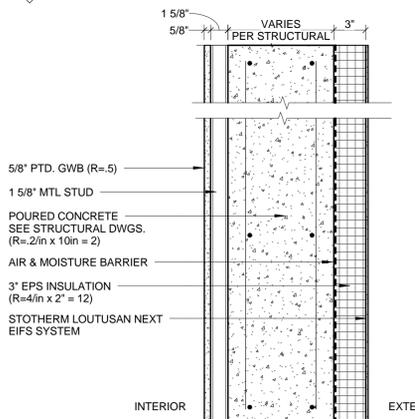
SHEET NOTES:

SCHEDULED WALL DETAILS ARE BASIC MATERIAL AND COMPONENTS OF TYPICAL SCHEDULED WALLS. REFER TO DETAIL SHEETS AND SPECIFICATION FOR FURTHER DETAILS FOR SPECIFIC AREAS SUCH AS TRIMS, TERMINATION, PENETRATIONS AND APPLICATIONS.

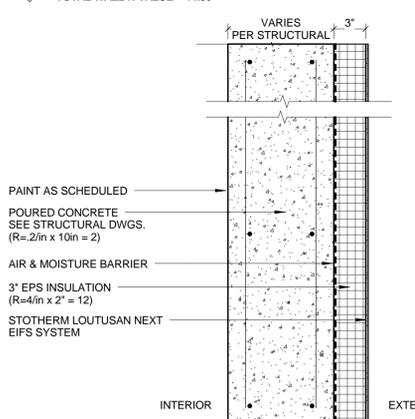
- PROVIDED 5/8" THICK MOISTURE RESISTANT GYP. BD. AT ALL BATHROOMS, KITCHENS, WINDOW RETURN WALLS, ETC. AS SHOWN IN DETAILS. FIRE CODE MFR. BOARD REQUIRED AT RATED PARTITIONS. 5/8" CEMENTITIOUS BACKER BOARD REQUIRED AT FULL WALL OF TUB SURROUND, AND OTHER "WET AREAS"
- REFER TO FINISH DETAILS FOR CEILING, FLOORING AND BASE MATERIAL DETAILS.
- ALL LOAD BEARING WALLS TO BE RATED AS PER CONSTRUCTION CLASSIFICATION. REFER TO STRUCTURAL DWGS FOR LOAD BEARING WALLS.
- USE 1" TYPE S DRYWALL SCREWS 8" O.C. AT VERTICAL JOINTS AND 12" O.C. AT FLOOR AND CEILING RUNNERS AND INTERMEDIATE STUDS.
- STAGGER GYP. BD. JOINTS AT 24" ON EACH SIDE AND ON OPPOSITE SIDES.
- PROVIDE FIRE STOPPING AT ALL OPENINGS AND UNDERSIDE OF JOISTS.
- ALL STUDS AND FURRING MEMBERS AT 16" O.C. UNLESS OTHERWISE NOTED OR REQUIRED TO MEET DEFLECTION RATING.
- USE 5/8" THICK GYP. BD. (TYPE X IN AREA INDICATED AS RATED IN PARTITION TYPES) AT ALL WALLS, CEILINGS, FOYERS, CLOSETS, ARCHWAY TO KITCHEN, IN ALL ROOMS OF APARTMENTS, PUBLIC SPACES AND COMMERCIAL SPACES.
- FIRE OR SMOKE RATED PARTITIONS TO BE CONTINUOUS FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE ALL OPENINGS (DOORS), PENETRATIONS (DUCTS, PIPES) CONNECTIONS AND JOINTS (CAULKING AND INSULATION) SHALL BE RATED TO MAINTAIN PARTITION'S RATING.
- FIRE OR SMOKE RATED PARTITIONS SHALL BE UL LABELED AND SHALL CONFORM TO THE CODE REQUIREMENTS.
- PROVIDE 3" THERMAFIBER SAFB (SOUND ATTENUATION FIRE BLANKET) INSULATION AT ALL DEMISING WALLS, PLUMBING RISERS, MECHANICAL RISERS, BEARING METALWOOD STUD WALLS, AND BATHROOM WALLS (MEA 209-62.4).
- PROVIDE FIRE RATING AS NOTED ON PLANS.
- USE BLIND SIDE WATERPROOFING AT NEIGHBORING BUILDINGS AND WHERE ACCESS IS LIMITED.
- COLD FORMED EXTERIOR WALL FRAMING, WINDOW AND CLADDING SYSTEMS TO MEET PERFORMANCE SPECIFICATIONS AND BUILDING CODE. GO TO SUBMIT SHOP DRAWINGS PREPARED BY A LICENSED ARCHITECT OR ENGINEER SHOWING FULL COMPONENT DESIGN AND CALCULATIONS DEMONSTRATING CONFORMANCE.



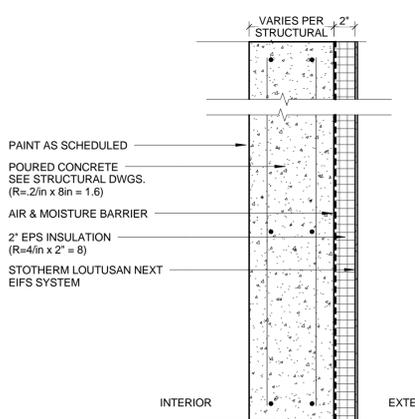
L TYPICAL METAL PANEL WALL
TOTAL WALL R VALUE = 14.00
1-1/2" = 1'-0"



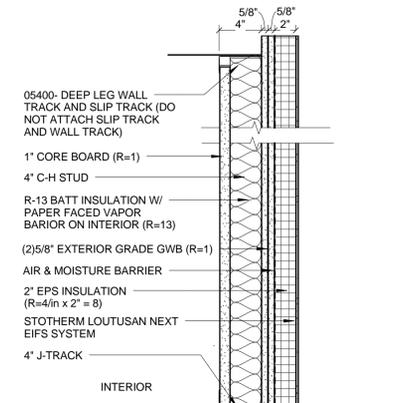
K1 TYPICAL ABOVE-GRADE CONCRETE WALL W/ EIFS
(W/ METAL STUD & GWB FINISH ON ONE SIDE)
TOTAL WALL R VALUE = 14.50
1-1/2" = 1'-0"



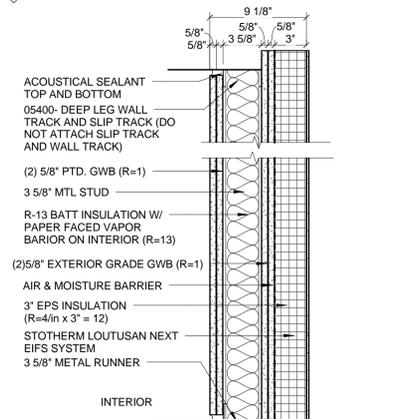
K TYPICAL ABOVE-GRADE CONCRETE WALL W/ EIFS
TOTAL WALL R VALUE = 14.00
1-1/2" = 1'-0"



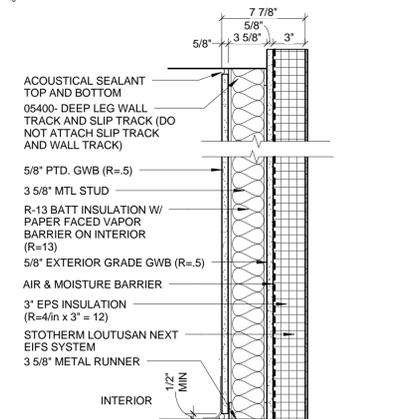
J TYPICAL ABOVE-GRADE CONCRETE WALL W/ EIFS
TOTAL WALL R VALUE = 9.60
1-1/2" = 1'-0"



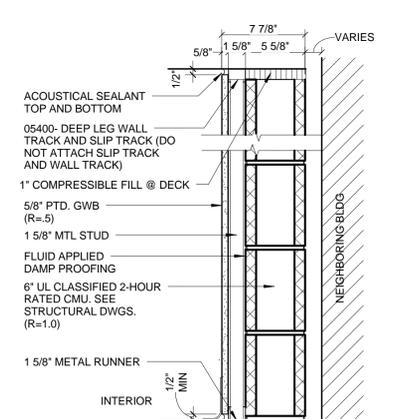
H TYPICAL EIFS SHAFTWALL
TOTAL WALL R VALUE = 23.00
1-1/2" = 1'-0"



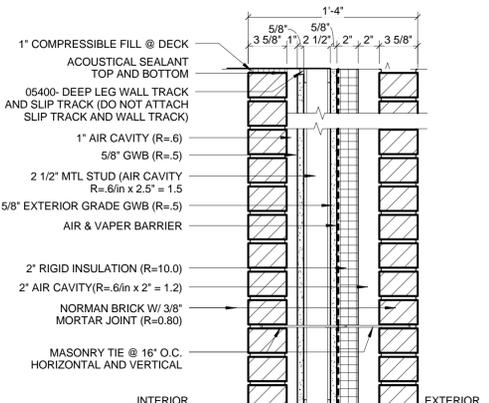
G TYPICAL 2-HR EIFS WALL ON METAL STUD
TOTAL WALL R VALUE = 27.00
1-1/2" = 1'-0"



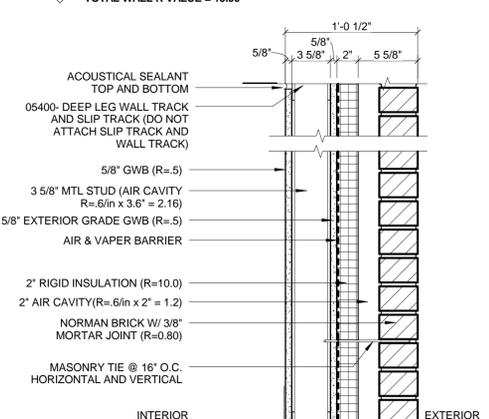
F TYPICAL EIFS WALL ON METAL STUD
TOTAL WALL R VALUE = 26.00
1-1/2" = 1'-0"



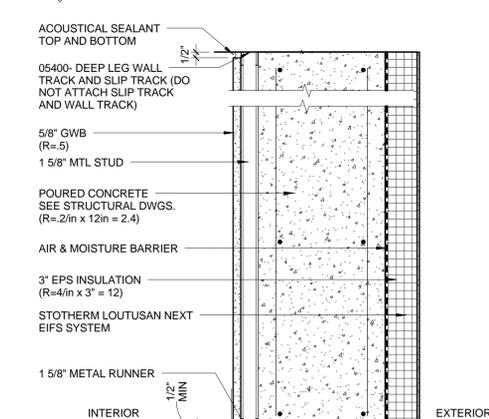
E TYPICAL CMU PROPERTY LINE WALL AT ADJACENT BUILDING
TOTAL WALL R VALUE = 14.40
1-1/2" = 1'-0"



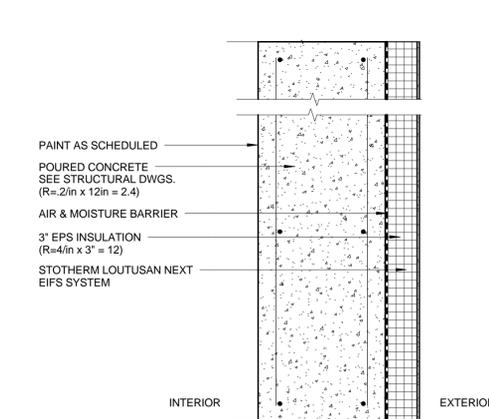
D1 TYPICAL TWO SIDED BRICK WALL
TOTAL WALL R VALUE = 15.90
1-1/2" = 1'-0"



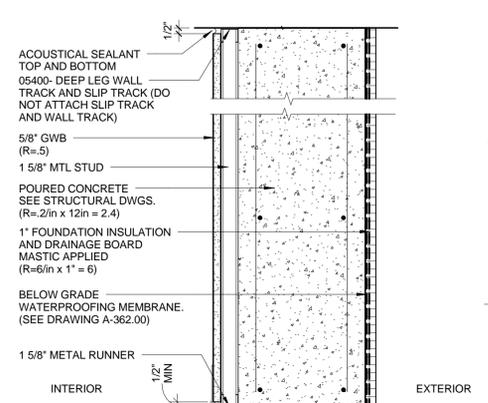
D TYPICAL BRICK WALL
TOTAL WALL R VALUE = 15.16
1-1/2" = 1'-0"



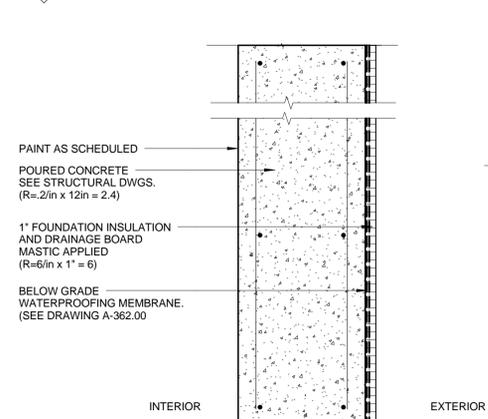
C1 TYPICAL ABOVE-GRADE FOUNDATION WALL W/ EIFS
(W/ GWB FINISH ON ONE SIDE)
TOTAL WALL R VALUE = 14.90
1-1/2" = 1'-0"



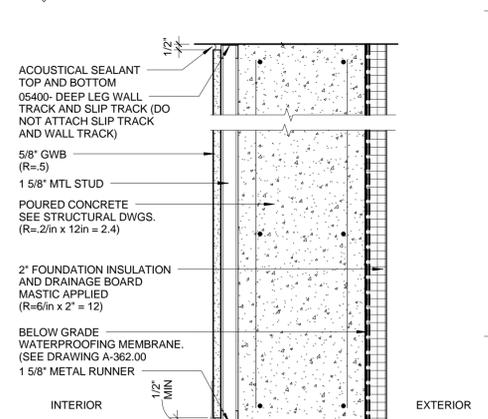
C TYPICAL ABOVE-GRADE FOUNDATION WALL W/ EIFS
TOTAL WALL R VALUE = 14.40
1-1/2" = 1'-0"



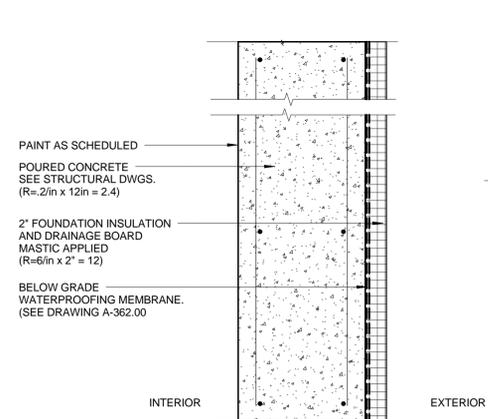
B1 TYPICAL FOUNDATION WALL (W/ GWB FINISH ON ONE SIDE)
TOTAL WALL R VALUE = 8.90
1-1/2" = 1'-0"



B TYPICAL FOUNDATION WALL @ NEIGHBORING WALL
TOTAL WALL R VALUE = 8.40
1-1/2" = 1'-0"



A1 TYPICAL FOUNDATION WALL (W/ GWB FINISH ON ONE SIDE)
TOTAL WALL R VALUE = 14.90
1-1/2" = 1'-0"



A TYPICAL FOUNDATION WALL
TOTAL WALL R VALUE = 14.40
1-1/2" = 1'-0"

Project
491 E. 165TH STREET
BRONX, NEW YORK 10456

Owner
PSCH, INC / CHRISTA
40 ELMONT ROAD, ELMONT, NY 11003

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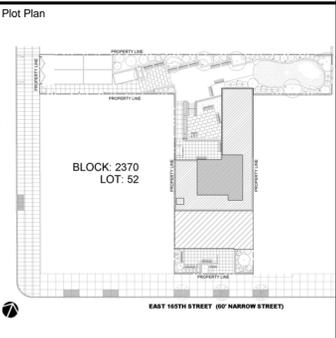
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CIVIL ENGINEER
MICHAEL WEIN, PE
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EXTERIOR PARTITION SCHEDULE

Sign & Seal	Job no.	12.08
	Drawn by	JPH
	Checked by	AM / TS
	Sheet scale	1 1/2" = 1'-0"
Drawing No.		A-510.00
Date	01/20/14	DOB sheet 39 OF 49
DOB NUMBER		220211955

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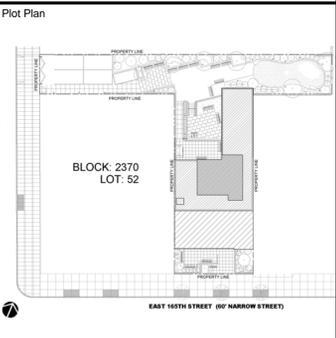
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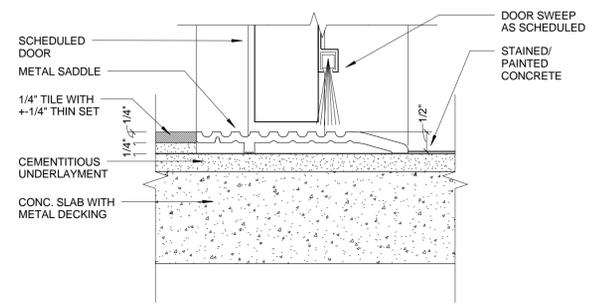
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Drawing Title
DOOR DETAILS I

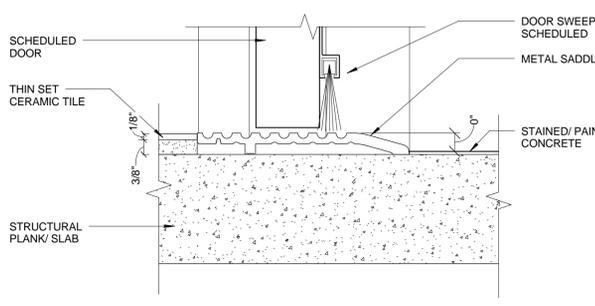
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 Checked by AM / TS
 Sheet scale 6" = 1'-0"
 Drawing No.
A-521.00

Date 01/20/14 DOB sheet

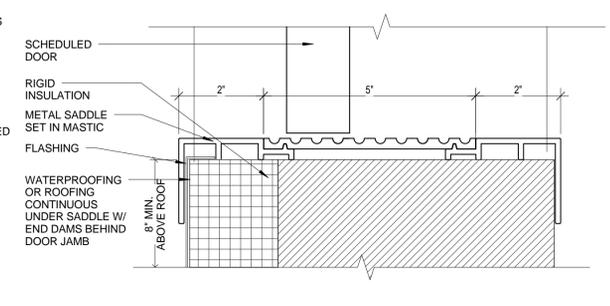
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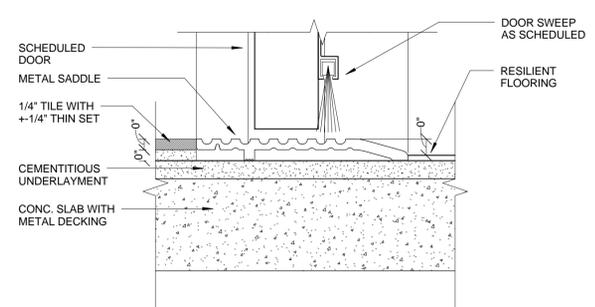
12 SADDLE DETAIL @ TILE FLOORING TO STAINED / PAINTED CONCRETE
 6" = 1'-0"



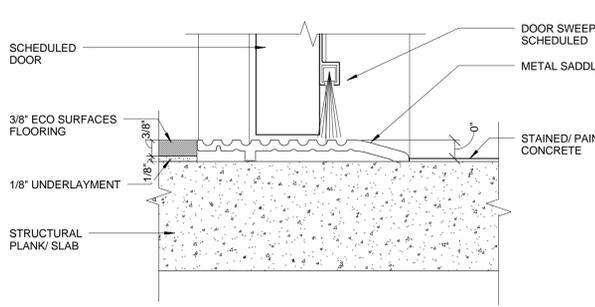
8 SADDLE DETAIL @ TILE FLOORING TO STAINED / PAINTED CONCRETE
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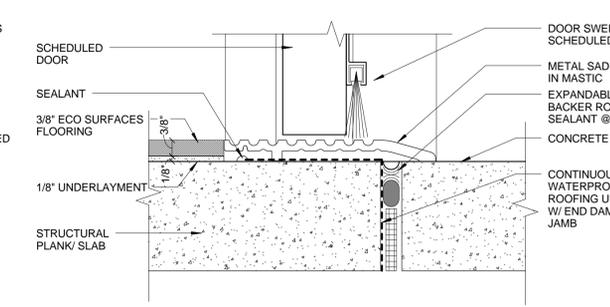
4 SADDLE DETAIL @ ROOF BULKHEAD
 6" = 1'-0"



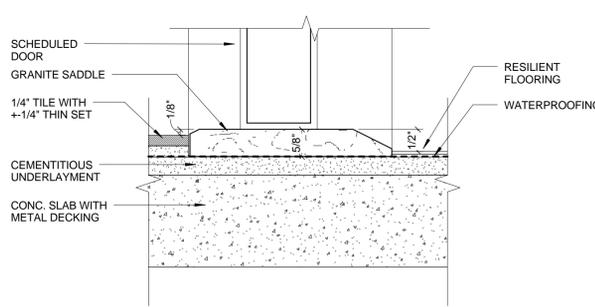
11 SADDLE DETAIL @ TILE FLOORING TO RESILIENT FLOORING
 6" = 1'-0"



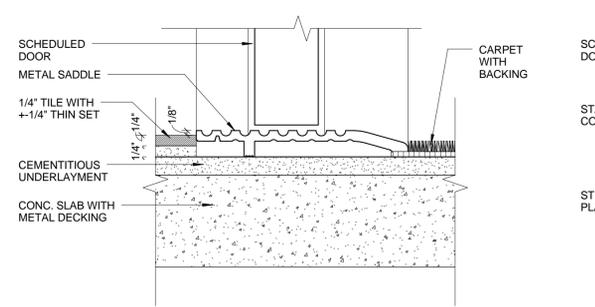
7 SADDLE DETAIL @ ECO SURFACE FLOORING TO STAINED / PAINTED CONCRETE
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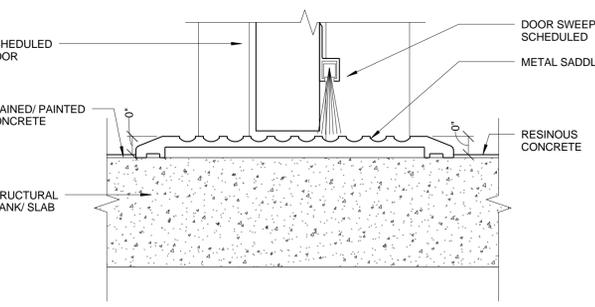
3 SADDLE DETAIL @ ECO SURFACE FLOORING TO CONC. PAVERS @ EXTERIOR DOOR
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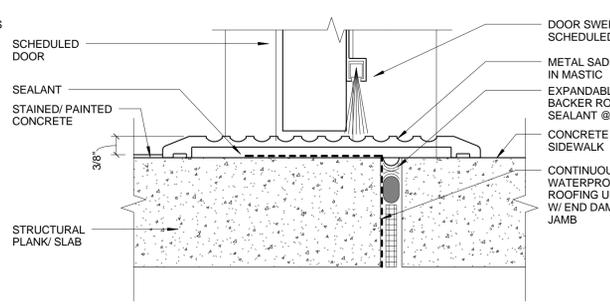
14 SADDLE DETAIL @ TILE FLOORING TO RESILIENT FLOORING
 6" = 1'-0"



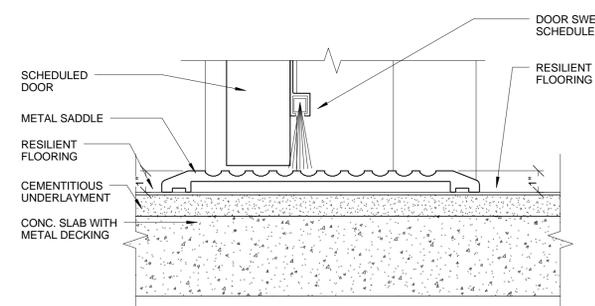
10 SADDLE DETAIL @ TILE FLOORING TO CARPET
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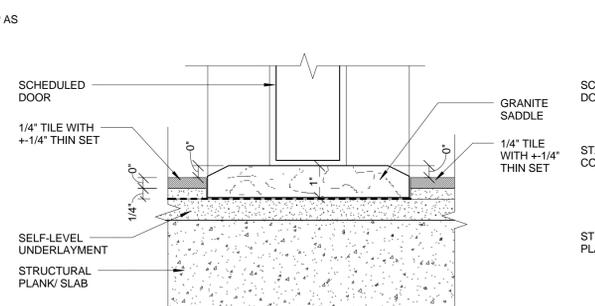
6 SADDLE DETAIL @ STAINED CONC. TO RESINOUS CONC.
 6" = 1'-0"



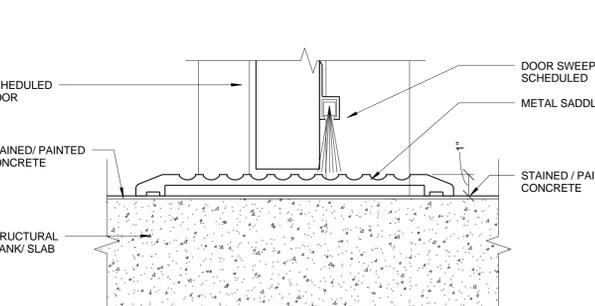
2 SADDLE DETAIL @ STAINED CONC. TO CONC. PAVERS @ EXTERIOR DOORS
 6" = 1'-0"



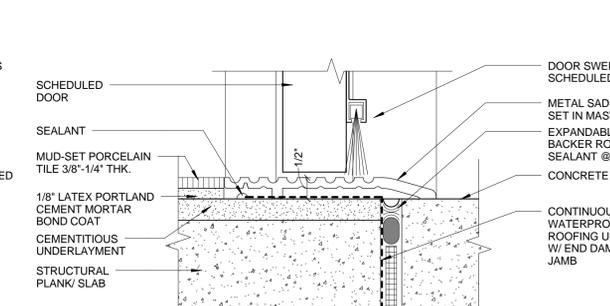
13 SADDLE DETAIL @ RESILIENT FLOORING TO RESILIENT FLOORING
 6" = 1'-0"



9 SADDLE DETAIL @ TILE FLOORING TO TILE FLOORING
 6" = 1'-0"



5 SADDLE DETAIL @ STAINED CONC. TO STAINED CONC.
 6" = 1'-0"



1 SADDLE DETAIL @ TILE FLOORING TO CONC. PAVERS @ EXTERIOR DOORS
 6" = 1'-0"

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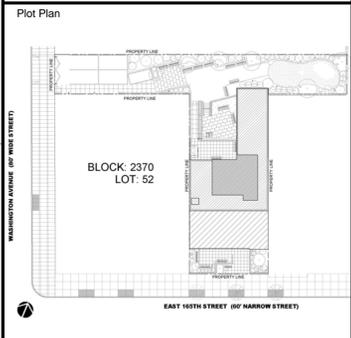
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CIVIL ENGINEER
MICHAEL WEIN, PE
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 52 DIAMOND STREET, BROOKLYN, NY 11222

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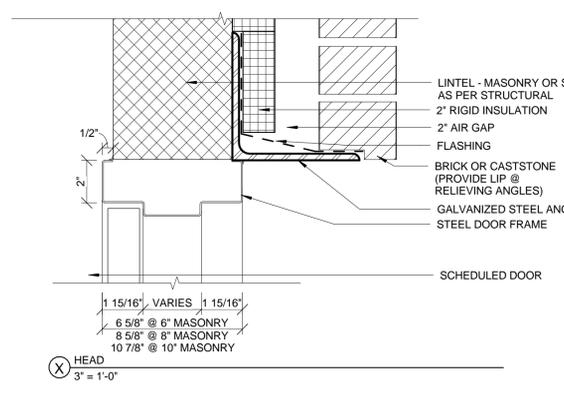
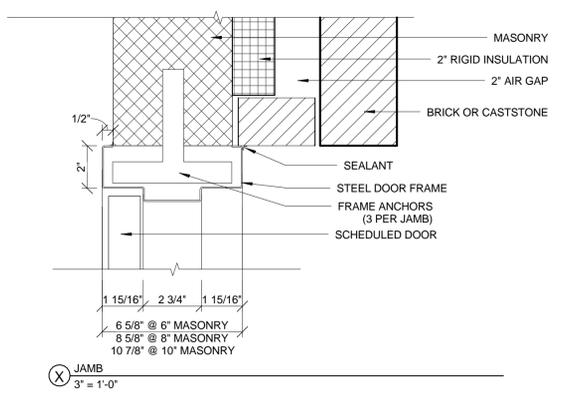
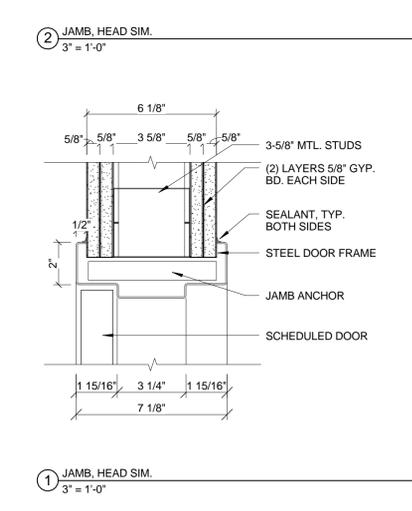
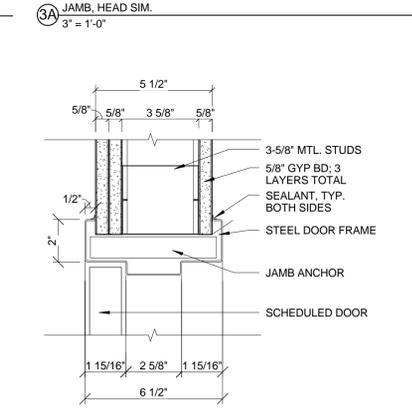
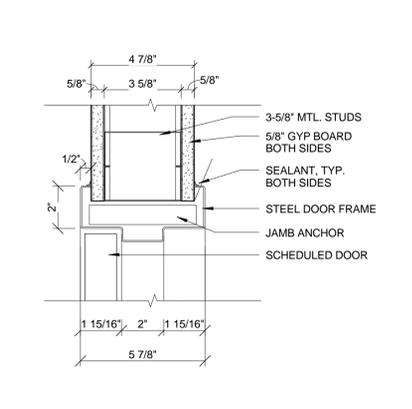
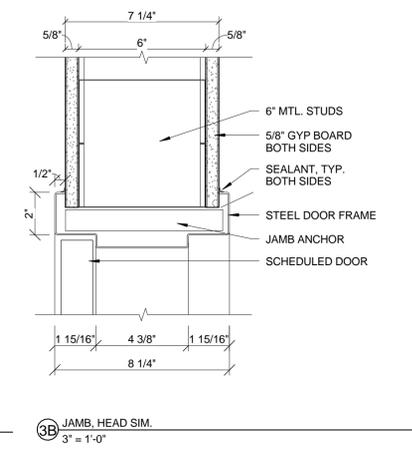
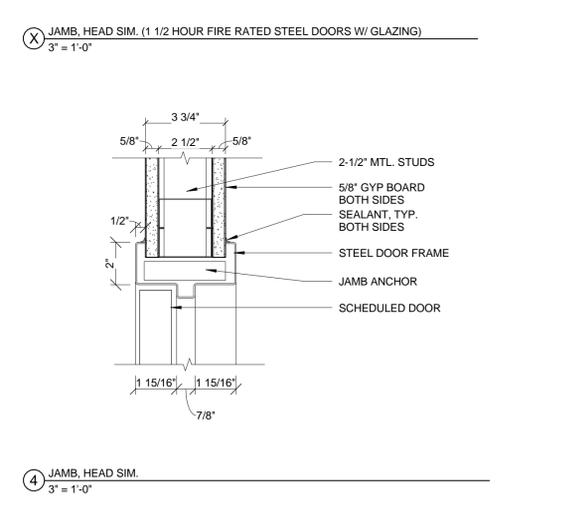
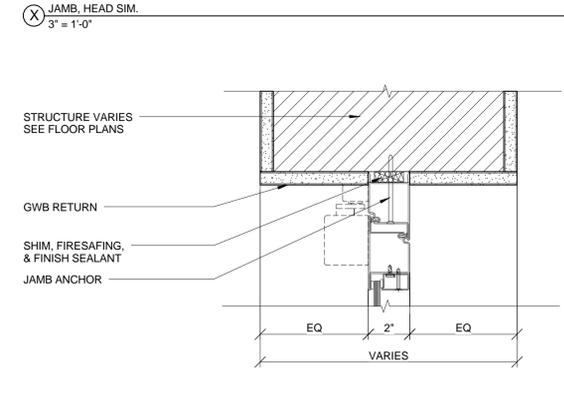
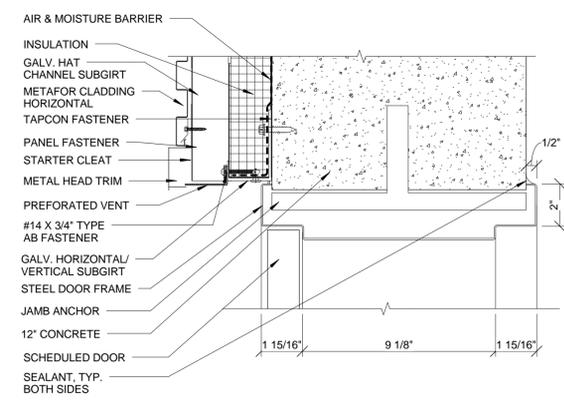
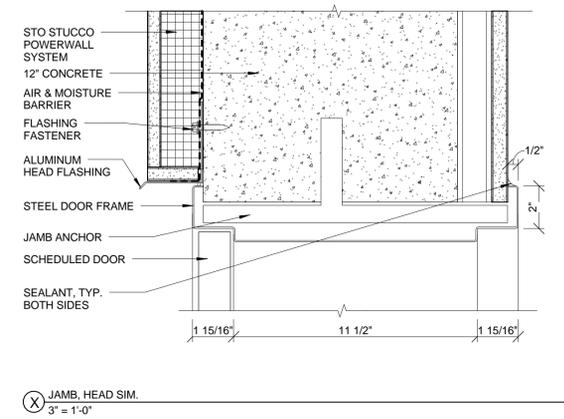
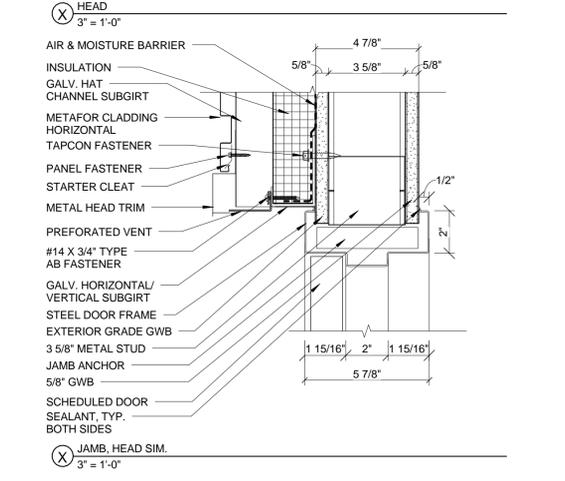
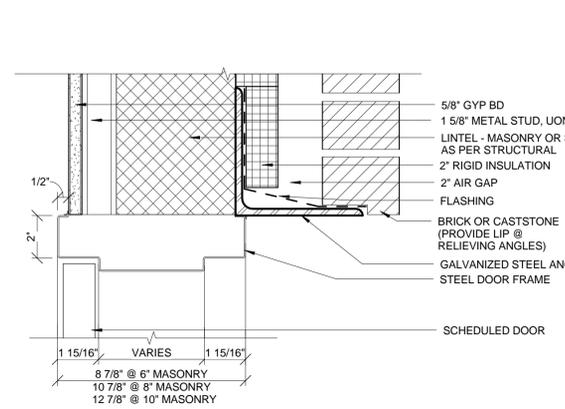
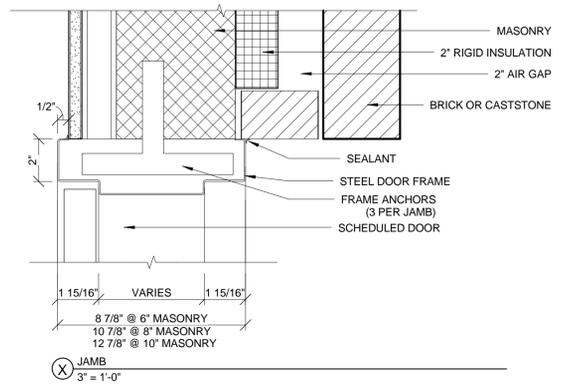
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Issuance Schedule		
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Drawing Title
DOOR DETAILS II

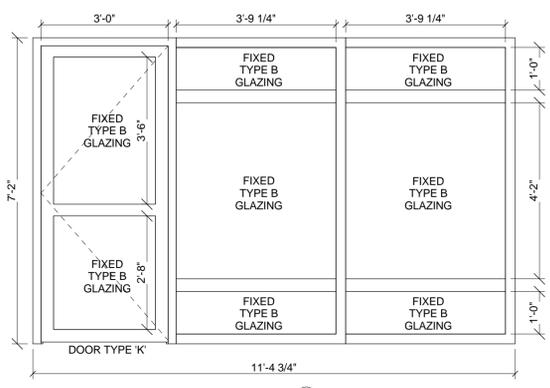
Sign & Seal
 Job no. 12.08
 Drawn by JPH
 Checked by AM / TS
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 Drawing No.
A-522.00

Date 01/20/14 DOB sheet
 DOB NUMBER
220211955

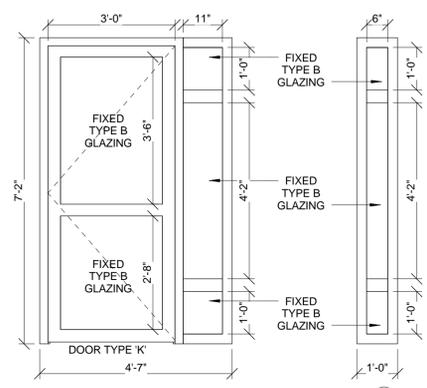


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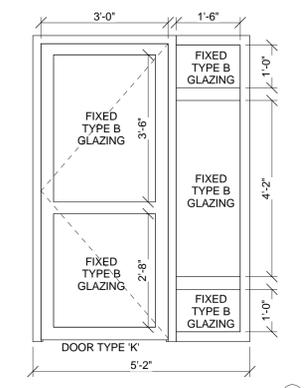
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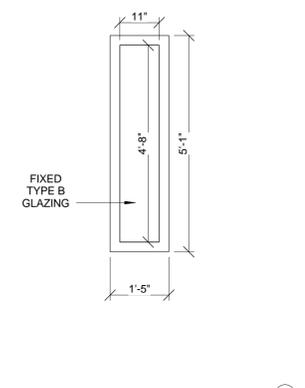
12 MULTIPURPOSE ROOM ENTRY WALL
1/2" = 1'-0"



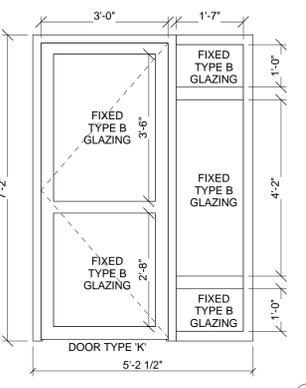
13 OPEN OFFICE CORNER ENTRY
1/2" = 1'-0"



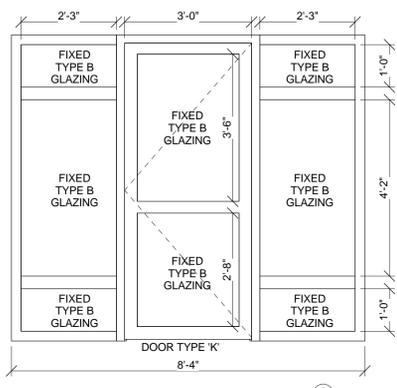
14 REAR VESTIBULE ENTRY @ STAIR 'B'
1/2" = 1'-0"



15 FRONT VESTIBULE WINDOW @ OPEN OFFICE
1/2" = 1'-0"



16 LAUNDRY ROOM ENTRY WALL
1/2" = 1'-0"



17 EXERCISE ROOM WINDOW WALL
1/2" = 1'-0"

A 3/4 HOUR FIRE-RATED WINDOW ASSEMBLY
PER UL 263

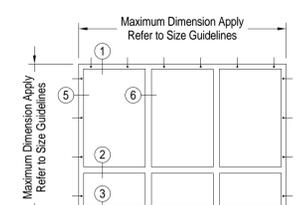


Figure 22: Window with Welded Joinery
(Interior Application)

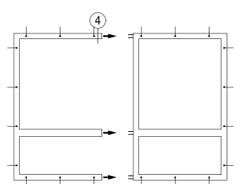


Figure 23: Mechanical Joinery Example
Refer to the Frame Assembly section.

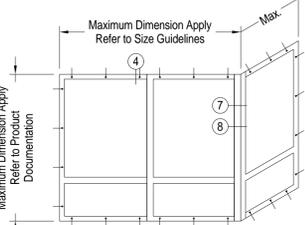


Figure 24: Mechanical Joinery and Corner

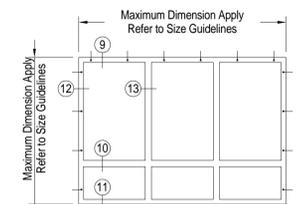


Figure 25: Window with Welded Joinery
(Exterior Application)

Perimeter Anchors -
Approximate anchor hole location
Note: For exterior applications,
anchors are not to be used at
sill locations. (Refer to Detail 11)

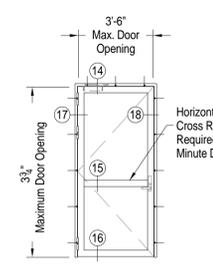


Figure 26: Stand Alone Door

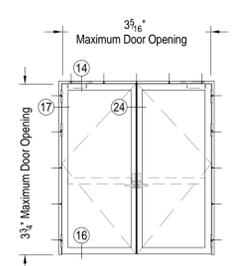


Figure 30: Active / Active Pair

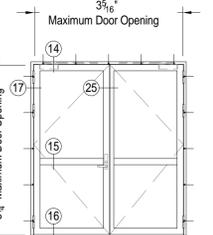


Figure 31: Active / Fixed Pair

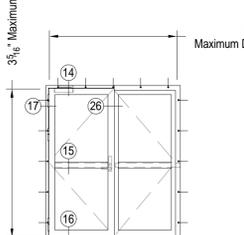
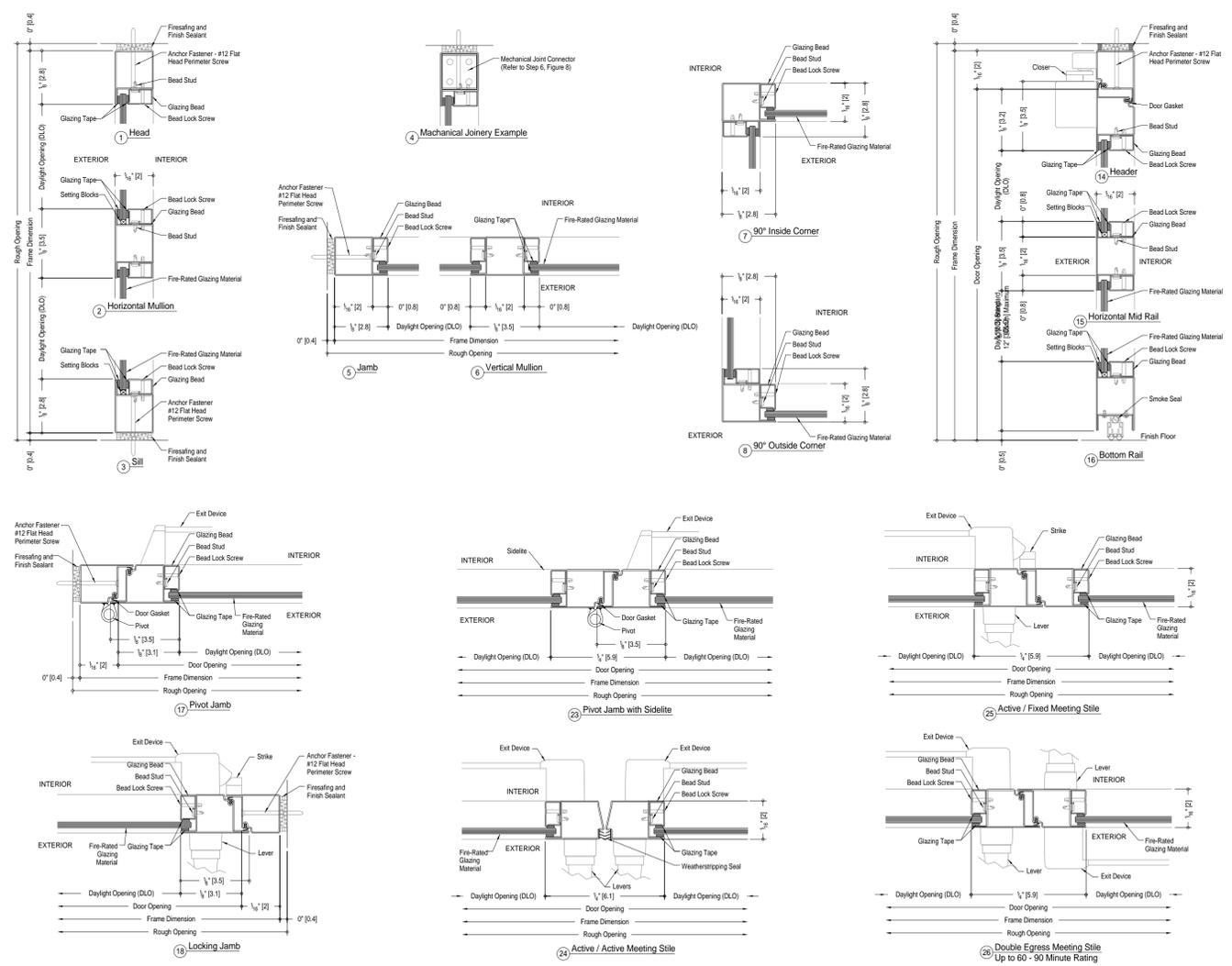


Figure 32: Double Egress Pair



INTERIOR FIRE-RATED WINDOW DETAILS
3" = 1'-0"

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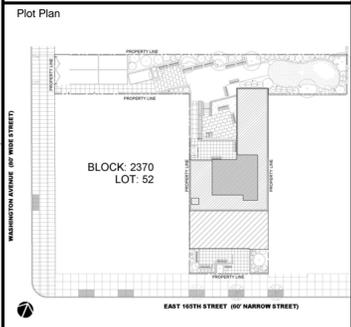
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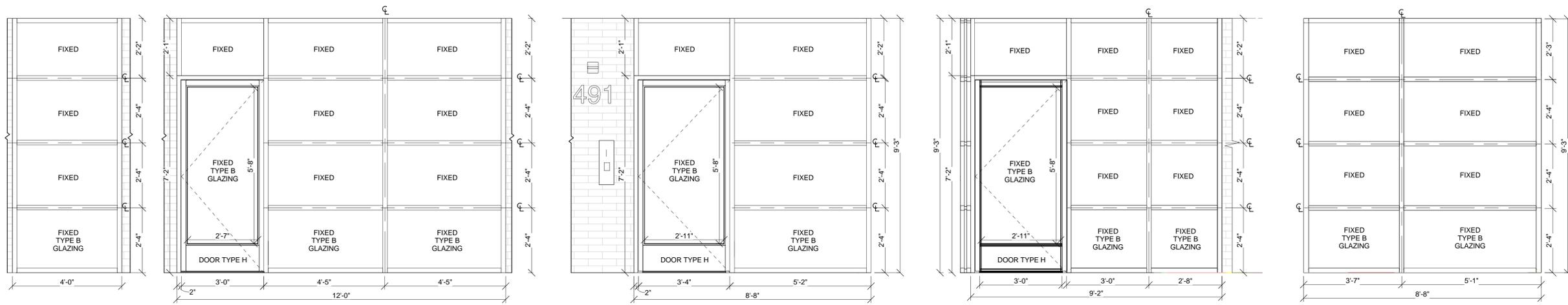
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Drawing Title
FIRE-RATED WINDOW TYPES & DETAILS

Sign & Seal	Job no. 12.08 Drawn by JPH Checked by AM / TS Sheet scale As indicated Drawing No. A-531.00
Date 01/20/14	DOB sheet 42 OF 49

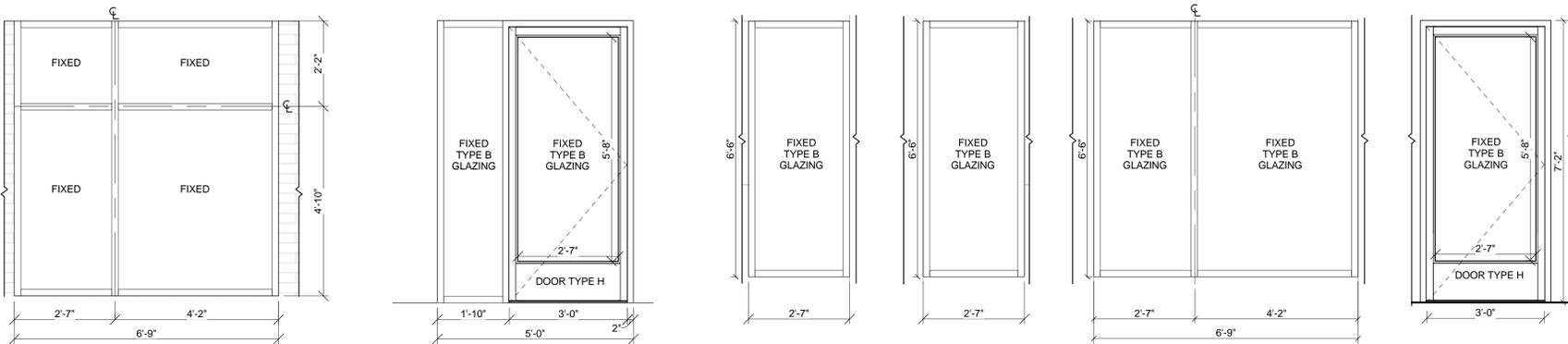
DOB NUMBER
220211955



1 ENTRY VESTIBULE & OFFICES - SOUTH WINDOW WALL
1/2" = 1'-0"

2 ENTRY VESTIBULE - EAST WINDOW WALL
1/2" = 1'-0"

3 ENTRY VESTIBULE - NORTH WINDOW WALL
1/2" = 1'-0"

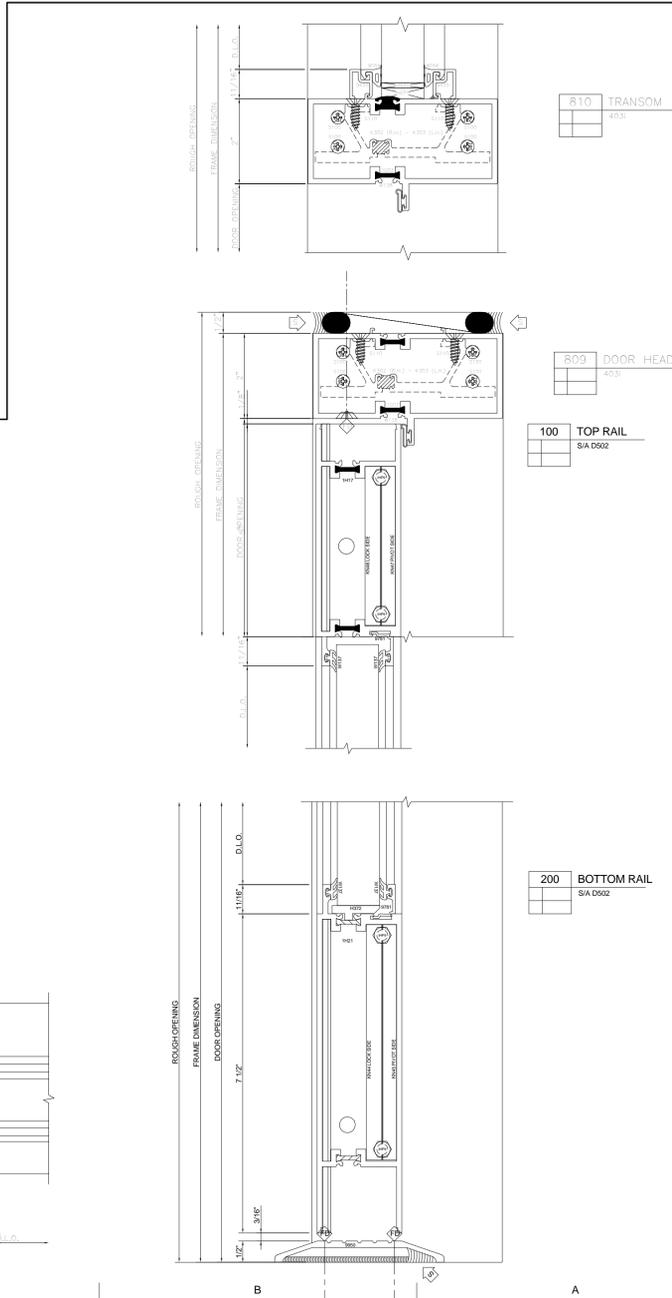
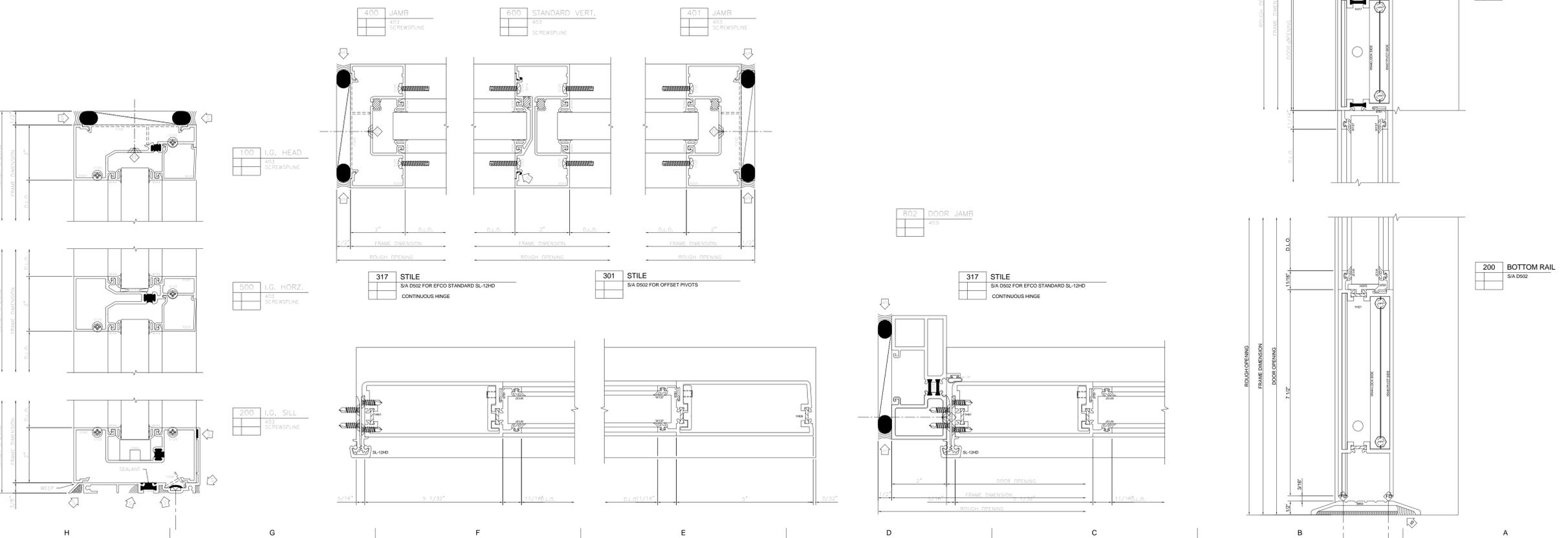


4 WAITING AREA - SOUTH WINDOW WALL
1/2" = 1'-0"

5 REAR VESTIBULE - NORTH WINDOW WALL
1/2" = 1'-0"

6 10TH FL ROOF TERRACE - SOUTH WINDOW WALL
1/2" = 1'-0"

STOREFRONT DETAILS
6" = 1'-0"



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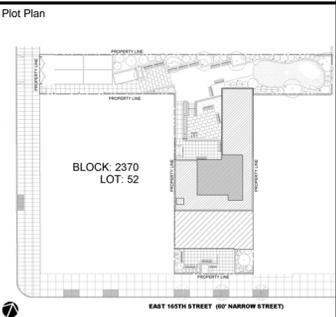
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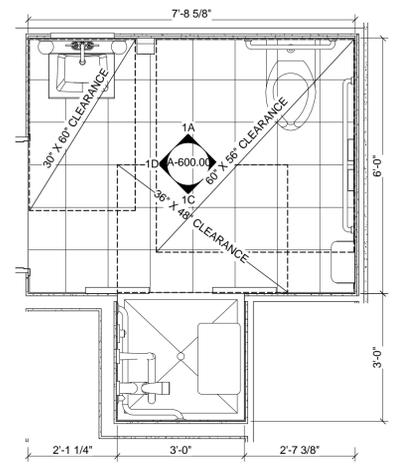
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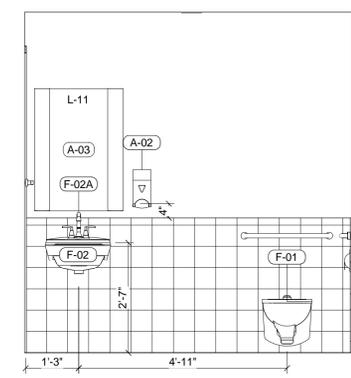
Drawing Title
STOREFRONT TYPES & DETAILS

Sign & Seal	Job no.	12.08
	Drawn by	JPH
Date	Checked by	AM / TS
	Sheet scale	As indicated
DOB NUMBER	Drawing No.	A-532.00
	Date	01/20/14
	DOB sheet	43 OF 49
		220211955

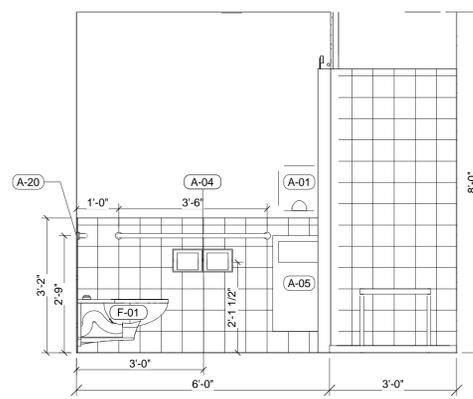
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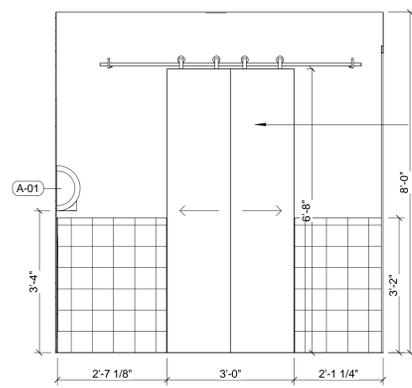
1 PUBLIC BATHROOM TYPE A
1/2" = 1'-0"



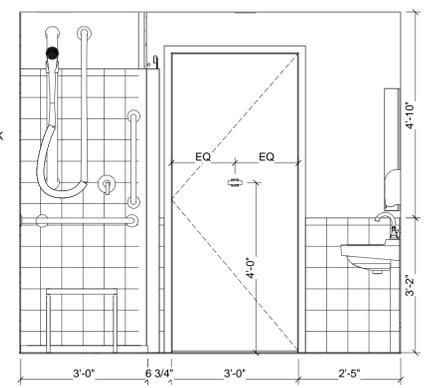
1A INTERIOR ELEVATION A1
1/2" = 1'-0"



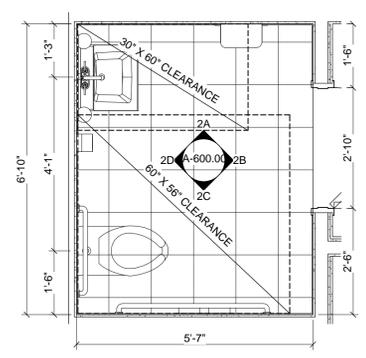
1B INTERIOR ELEVATION A2
1/2" = 1'-0"



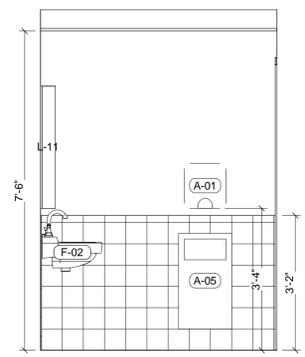
1C INTERIOR ELEVATION A3
1/2" = 1'-0"



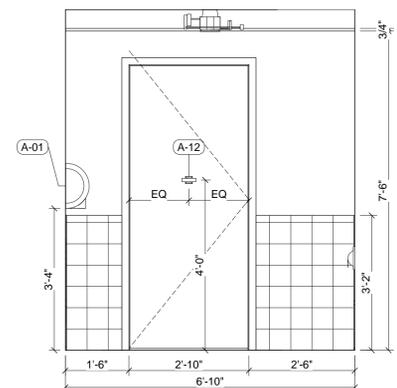
1D INTERIOR ELEVATION A4
1/2" = 1'-0"



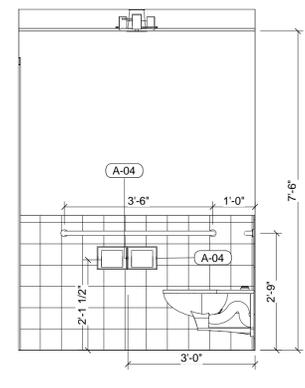
2 PUBLIC BATHROOM TYPE B
1/2" = 1'-0"



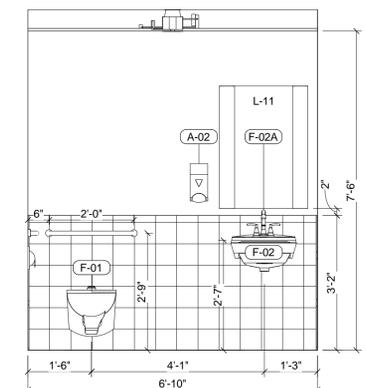
2A INTERIOR ELEVATION B1
1/2" = 1'-0"



2B INTERIOR ELEVATION B2
1/2" = 1'-0"



2C INTERIOR ELEVATION B3
1/2" = 1'-0"



2D INTERIOR ELEVATION B4
1/2" = 1'-0"

Project
491 E. 165TH STREET
BRONX, NEW YORK 10456

Owner
PSCH, INC / CHRISTA
40 ELMONT ROAD, ELMONT, NY 11003

Sponsor
NEW YORK STATE
OFFICE OF MENTAL HEALTH

Architect
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STRUCTURAL ENGINEER
YSRAEL A. SEINUK, PC
228 E 45TH STREET, NEW YORK, NY 10017

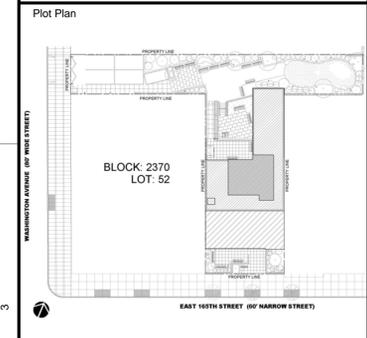
MEP ENGINEER
EMTG CONSULTANTS, INC
115 W 30TH STREET STE 202, NEW YORK, NY 10001

CIVIL ENGINEER
MICHAEL WEIN, PE
135 COUNTRY CLUB DR, MONROE TWP, NJ 08831

LANDSCAPE ARCHITECT:
LIZ FARRELL LANDSCAPE ARCHITECTURE, PLLC
523 6TH AVENUE, BROOKLYN, NY 11215

CODE CONSULTANT
DESIGN 2147, LTD
52 DIAMOND STREET, BROOKLYN, NY 11222

ESTIMATOR
CHAM ESTIMATING SERVICE
1 VANDERWATER CT, EAST BRUNSWICK, NJ 08816



For Department of Buildings Use

Issuance Schedule		
No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
PUBLIC TOILETS

Sign & Seal

Job no. 12.08
Drawn by JPH
Checked by AM / TS
Sheet scale As indicated
Drawing No. **A-600.00**

Date 01/20/14 DOB sheet 44 OF 49

DOB NUMBER
220211955

PUBLIC TOILET FIXTURE SCHEDULE			
TYPE	DESCRIPTION	MANUFACTURER	MODEL
F-01	Elongated Flush Valve Toilet	American Standard	AFWALL 2257.103
F-02	Wall-Hung Lavatory	American Standard	DECLYN 0321.075
F-02A	Two-handle Centerset Lavatory Faucet	American Standard	TROPIC 7038.201
F-03	36"x36" Shower Base	American Standard Inc.	ACRYLUX 3636Y1.ST
F-03A	Hand Held Shower System	American Standard Inc.	FLOWISE 1662.743
F-04	Lustertone Single Bowl Sink, ADA Compliant	Elkay	LRAD2521L
F-04A	Single Control Kitchen Faucet Brass Gooseneck Spout with 8" Reach	American Standard	MONTERREY 6114.380

PUBLIC TOILET ACCESSORY SCHEDULE			
TYPE	DESCRIPTION	MANUFACTURER	MODEL
A-01	Automatic sensor hand dryer - thermoset resin (BMC) cover	Excel Dryer, Inc.	Xlerator XL-GR
A-02	Foam Soap Dispenser	Gojo	ADX-7
A-03	Stainless Steel Mirror with Shelf	American Specialties Inc.	0605
A-04	Surface Mounted Dual Roll Toilet Paper Holder with Hood	American Standard	74022-HSM
A-05	Semi-Recessed Waste Receptacle	American Specialties Inc.	20458

LEGEND AND BATHROOM NOTES

- SEE PLUMBING SPECIFICATIONS FOR FIXTURES
- SEE ARCHITECTURAL SPECIFICATIONS FOR BATHROOM ACCESSORIES
- SEE DRAWING G-100.00 FOR HANDICAP ACCESSIBILITY DIAGRAMS
- SEE FINISH SCHEDULE FOR ALL BATHROOM FINISHES
- GRANITE SADDLES AT ALL BATHROOM LOCATIONS
- PROVIDE METAL BLOCKING AT ALL GRAB BAR LOCATIONS
- BULLNOSE ALL AROUND PERIMETER. COVE TILES AT ALL CORNERS, VERTICALLY AND HORIZONTALLY
- ALL PUBLIC BATHROOMS TO HAVE DEODORIZER UNITS
- PROVIDE METAL GROUNDING AT ALL GRAB BAR LOCATIONS TO COMPLY WITH ANSI A117.1-1986
- ALL WALLS AT SHOWER AND TUB ENCLOSURES TO BE FINISHED WITH CEMENT BOARD
- ALL FIXTURES AND SCHEDULES NOT LISTED HERE ARE TO BE FOUND IN SPECIFICATIONS
- FOR ACTUAL SIZES OF GRAB BARS REFER TO GENERAL NOTES G-100.00
- COORDINATE BATHROOM DRAIN LOCATIONS WITH PLUMBING DRAWINGS; SLOPE TO DRAIN MINIMUM 1/16" : 1'-0"
- MAXIMUM 3/16" : 1'-0"
- PROVIDE UNDERSINK PIPING COVERS BY TRUEBRO LAVE GAURD 2 OR SIMILAR WHERE PIPING IS EXPOSED



H G F E D C B A

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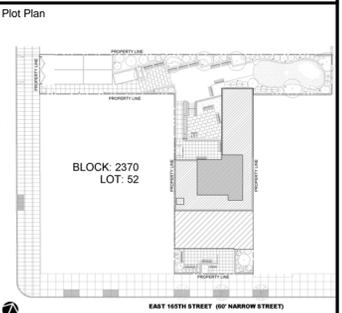
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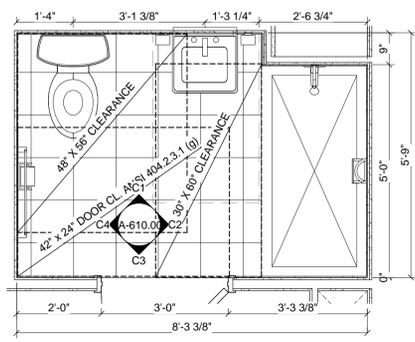


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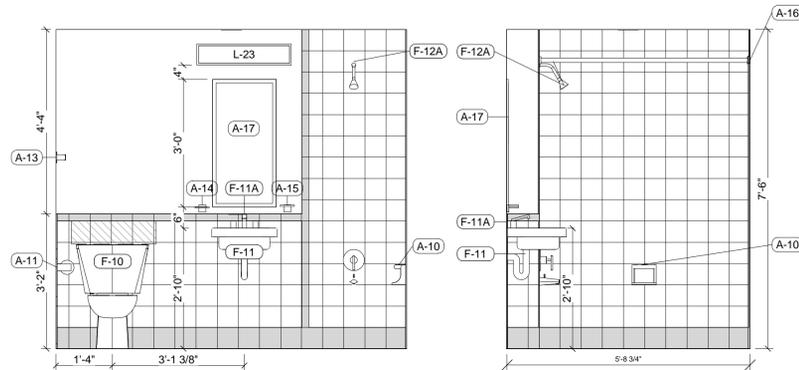
Issuance Schedule		
No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
UNIT BATHROOMS I

Sign & Seal	Job no. 12.08
	Drawn by JPH
	Checked by AM / TS
	Sheet scale As indicated
	Drawing No. A-610.00
Date 01/20/14	DOB sheet 45 OF 49
DOB NUMBER 220211955	

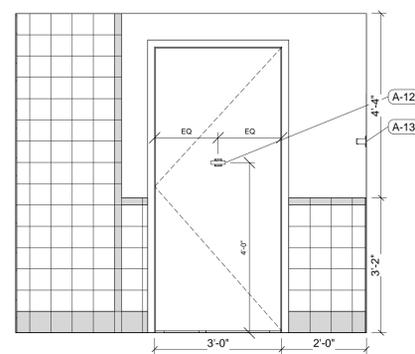


① TYPICAL UNIT BATHROOM TYPE C
 1/2" = 1'-0"

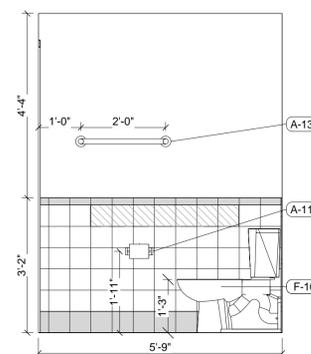


① C1 INTERIOR ELEVATION C1
 1/2" = 1'-0"

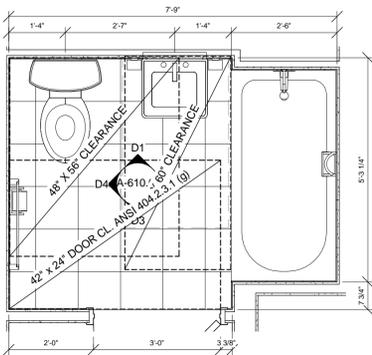
② C2 INTERIOR ELEVATION C2
 1/2" = 1'-0"



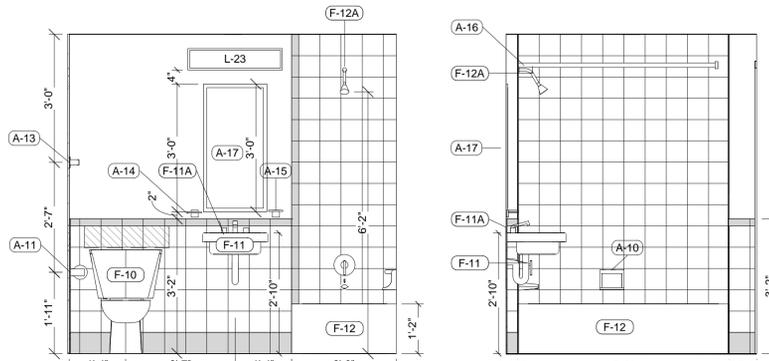
③ C3 INTERIOR ELEVATION C3
 1/2" = 1'-0"



④ C4 INTERIOR ELEVATION C4
 1/2" = 1'-0"

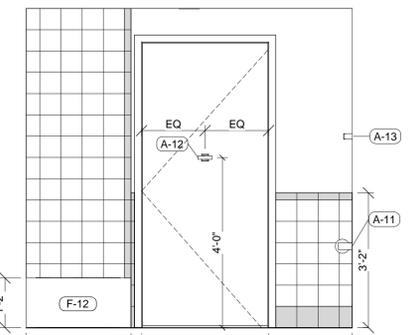


② TYPICAL UNIT BATHROOM TYPE D
 1/2" = 1'-0"

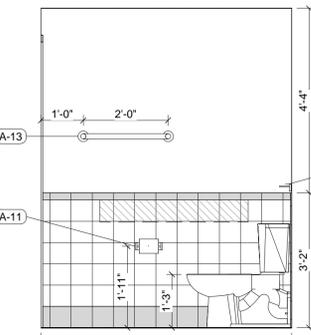


① D1 INTERIOR ELEVATION D1
 1/2" = 1'-0"

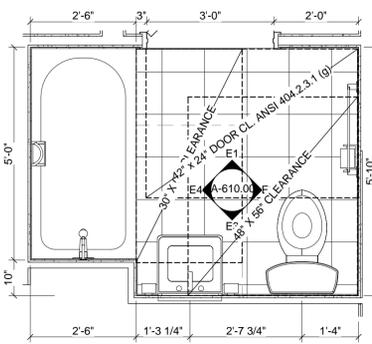
② D2 INTERIOR ELEVATION D2
 1/2" = 1'-0"



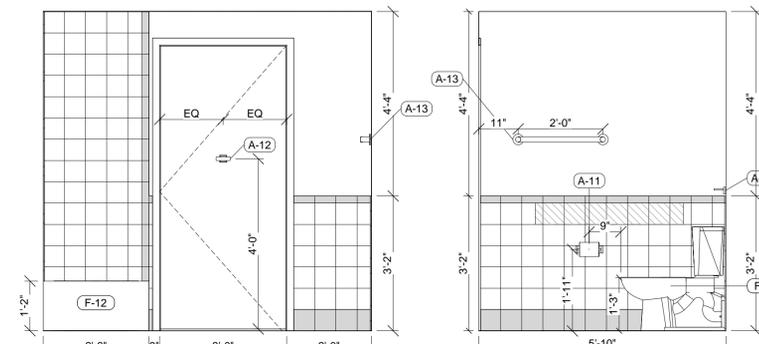
③ D3 INTERIOR ELEVATION D3
 1/2" = 1'-0"



④ D4 INTERIOR ELEVATION D4
 1/2" = 1'-0"

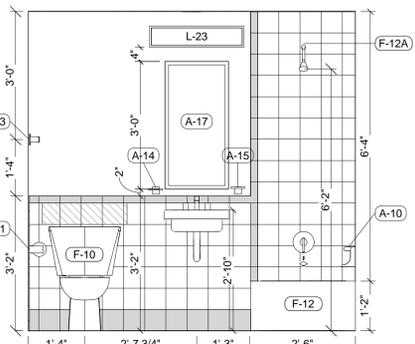


③ TYPICAL UNIT BATHROOM TYPE E
 1/2" = 1'-0"

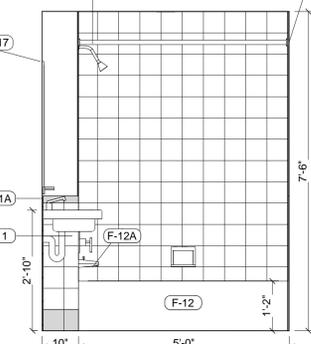


① E1 INTERIOR ELEVATION E1
 1/2" = 1'-0"

② E2 INTERIOR ELEVATION E2
 1/2" = 1'-0"



③ E3 INTERIOR ELEVATION E3
 1/2" = 1'-0"



④ E4 INTERIOR ELEVATION E4
 1/2" = 1'-0"

APARTMENT BATHROOM FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL
F-10	Elongated Pressure-Assisted Toilet	American Standard	2876.100
F-11	Wall-Hung Lavatory	American Standard Inc.	0436.004US
F-11A	Two-Handle Centerset Lavatory Faucet	American Standard Inc.	2275.509
F-12	Bathtub	American Standard Inc.	2391.202CHTC
F-12A	Showerhead and Bath Trim Kit	American Standard Inc.	T385.508, R120
F-13A	Single Bowl Sink	Elkay	LRAD1919
F-14	Colony Soft 2-Handle Kitchen Faucet with Gooseneck Spout	American Standard Inc.	4275.550
F-15	Elongated Pressure-Assisted Toilet	American Standard	2878.100

APARTMENT BATHROOM ACCESSORY SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL
A-10	Soap Dish w/ Washcloth Holder	Daltile	BA728
A-11	Toilet Paper Holder	American Specialties Inc.	7305
A-12	Double Robe Hook	American Specialties Inc.	7345
A-13	Round Towel Bar	American Specialties Inc.	7355
A-14	Tooth Brush Holder	American Specialties Inc.	7335
A-15	Soap Dish with Drain Holes	American Specialties Inc.	7320
A-16	Shower Rod	American Specialties Inc.	1204, 1200-V, 1200-SHU
A-17	Medicine Cabinet with Mirror	Basco	SR323PE-W
A-20	Grab Bar with Snap-on Flange Covers	American Specialties Inc.	3700
A-21	Moveable Shower Seat	Drive Medical	12486

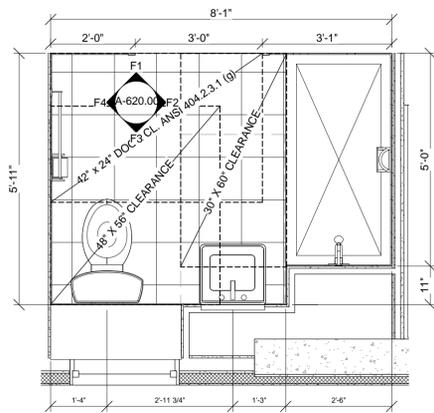
LEGEND AND BATHROOM NOTES

- SEE PLUMBING SPECIFICATIONS FOR FIXTURES
- SEE ARCHITECTURAL SPECIFICATIONS FOR BATHROOM ACCESSORIES
- SEE DRAWING G-100.00 FOR HANDICAP ACCESSIBILITY DIAGRAMS
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- GRANITE SADDLES AT ALL BATHROOM LOCATIONS
- PROVIDE METAL BLOCKING AT ALL GRAB BAR LOCATIONS
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- ALL PUBLIC BATHROOMS TO HAVE DEODORIZER UNITS
- PROVIDE METAL GROUNDING AT ALL GRAB BAR LOCATIONS TO COMPLY WITH ANSI A117.1-1998
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- PROVIDE UNDERSINK PIPING COVERS BY TRUEBRO LAVE GAURD 2 OR SIMILAR WHERE PIPING IS EXPOSED

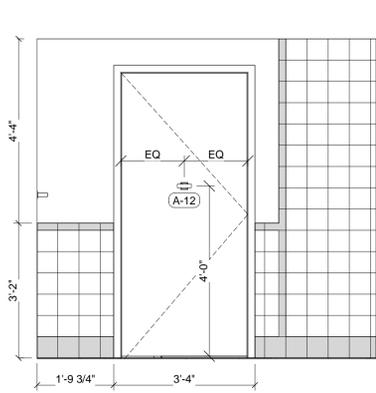
BACKING FOR GRAB BARS; SEE G-100.00 FOR HANDICAP ACCESSIBILITY NOTES

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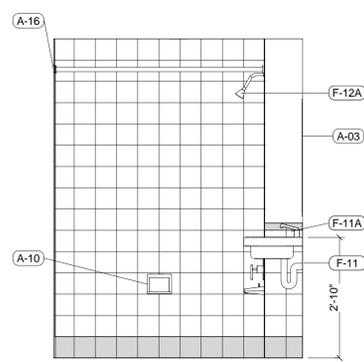
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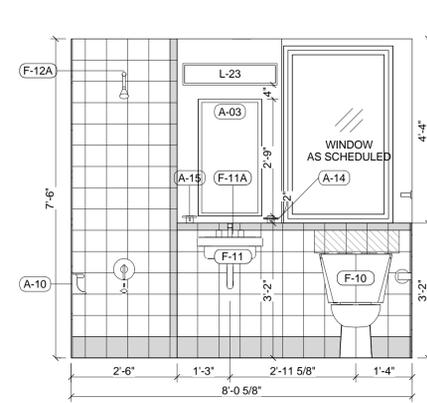
1 TYPICAL UNIT BATHROOM TYPE F
1/2" = 1'-0"



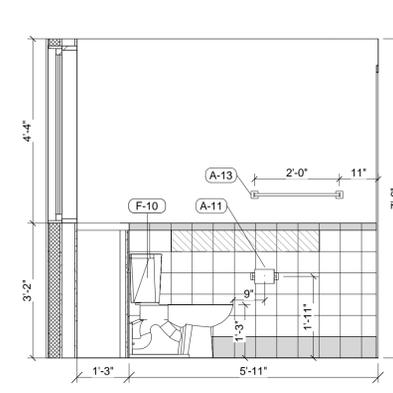
F1 INTERIOR ELEVATION F1
1/2" = 1'-0"



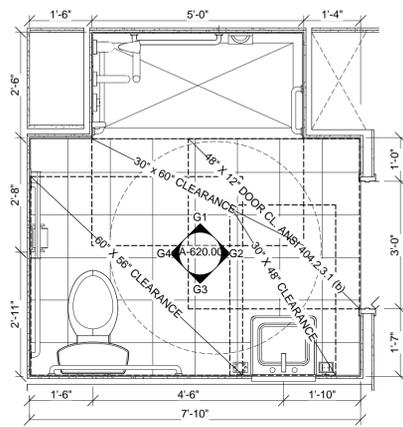
F2 INTERIOR ELEVATION F2
1/2" = 1'-0"



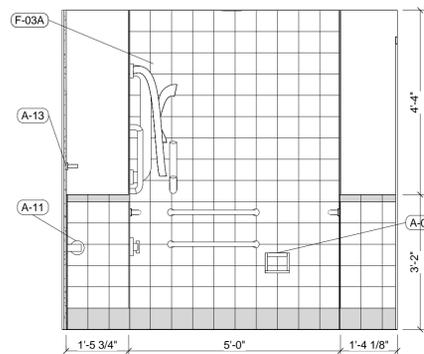
F3 INTERIOR ELEVATION F3
1/2" = 1'-0"



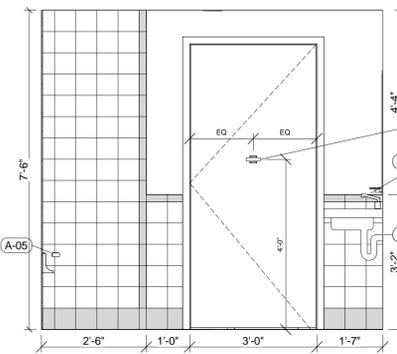
F4 INTERIOR ELEVATION F4
1/2" = 1'-0"



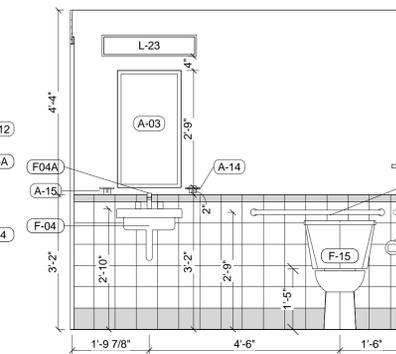
2 TYPICAL UNIT BATHROOM TYPE G
1/2" = 1'-0"



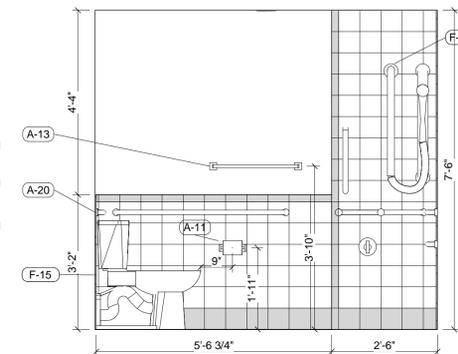
G1 INTERIOR ELEVATION G1
1/2" = 1'-0"



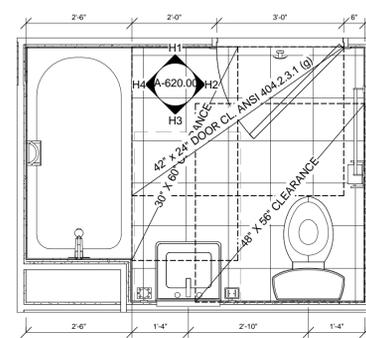
G2 INTERIOR ELEVATION G2
1/2" = 1'-0"



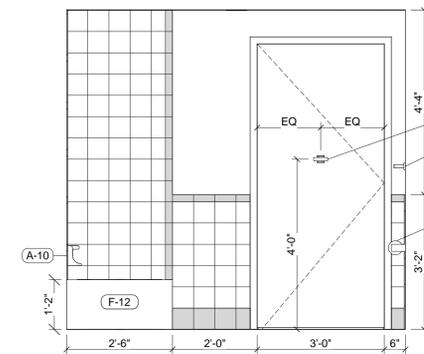
G3 INTERIOR ELEVATION G3
1/2" = 1'-0"



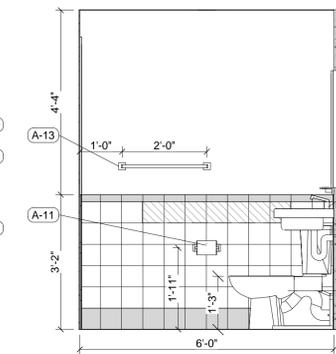
G4 INTERIOR ELEVATION G4
1/2" = 1'-0"



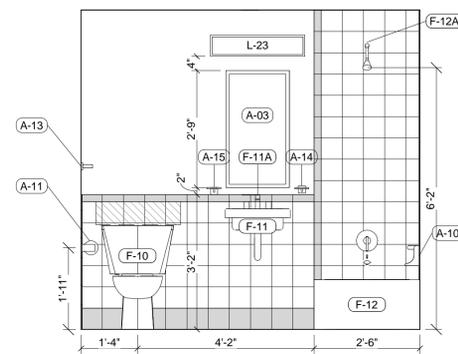
3 TYPICAL UNIT BATHROOM TYPE H
1/2" = 1'-0"



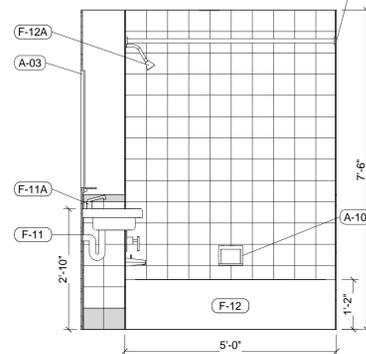
H1 INTERIOR ELEVATION H1
1/2" = 1'-0"



H2 INTERIOR ELEVATION H2
1/2" = 1'-0"



H3 INTERIOR ELEVATION H3
1/2" = 1'-0"



H4 INTERIOR ELEVATION H4
1/2" = 1'-0"

APARTMENT BATHROOM FIXTURE SCHEDULE			
TYPE	DESCRIPTION	MANUFACTURER	MODEL
F-10	Elongated Pressure-Assisted Toilet	American Standard	2876.100
F-11	Wall-Hung Lavatory	American Standard Inc.	0436.004US
F-11A	Two-Handle Centerset Lavatory Faucet	American Standard Inc.	2275.509
F-12	Bathtub	American Standard Inc.	2391.202CHTC
F-12A	Showerhead and Bath Trim Kit	American Standard Inc.	T385.508, R120
F-13A	Single Bowl Sink	Elkay	LRAD1919
F-14	Colony Soft 2-Handle Kitchen Faucet with Gooseneck Spout	American Standard Inc.	4275.550
F-15	Elongated Pressure-Assisted Toilet	American Standard	2878.100

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TYPE	DESCRIPTION	MANUFACTURER	MODEL
A-10	Soap Dish w/ Washcloth Holder	Daltile	BA728
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A-12	Double Robe Hook	American Specialties Inc.	7345
A-13	Round Towel Bar	American Specialties Inc.	7355
A-14	Tooth Brush Holder	American Specialties Inc.	7335
A-15	Soap Dish with Drain Holes	American Specialties Inc.	7320
A-16	Shower Rod	American Specialties Inc.	1204, 1200-V, 1200-SHU
A-17	Medicine Cabinet with Mirror	Basco	SR323PE-W
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A-21	Moveable Shower Seat	Drive Medical	12486

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BACKING FOR GRAB BARS; SEE G-100.00 FOR HANDICAP ACCESSIBILITY NOTES

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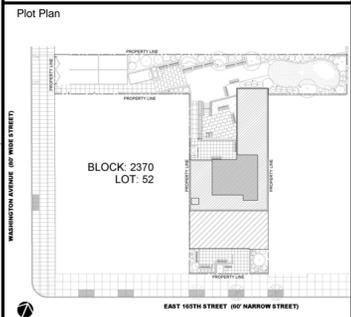
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MICHAEL WEIN, PE
 135 COUNTRY CLUB DR, MONROE TWP, NJ 08831

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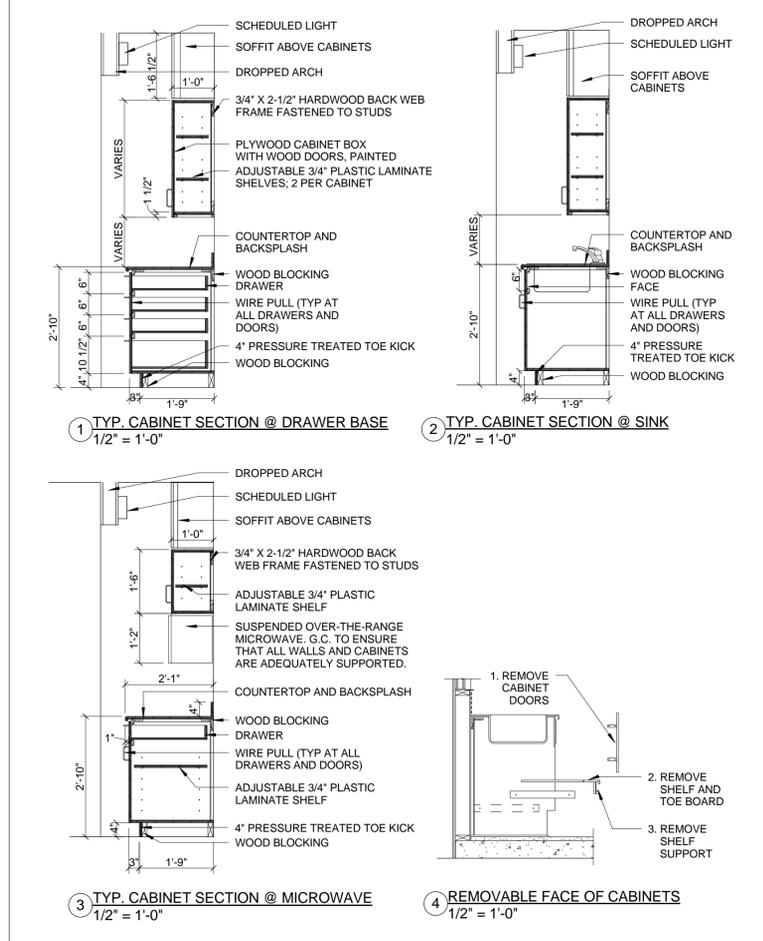
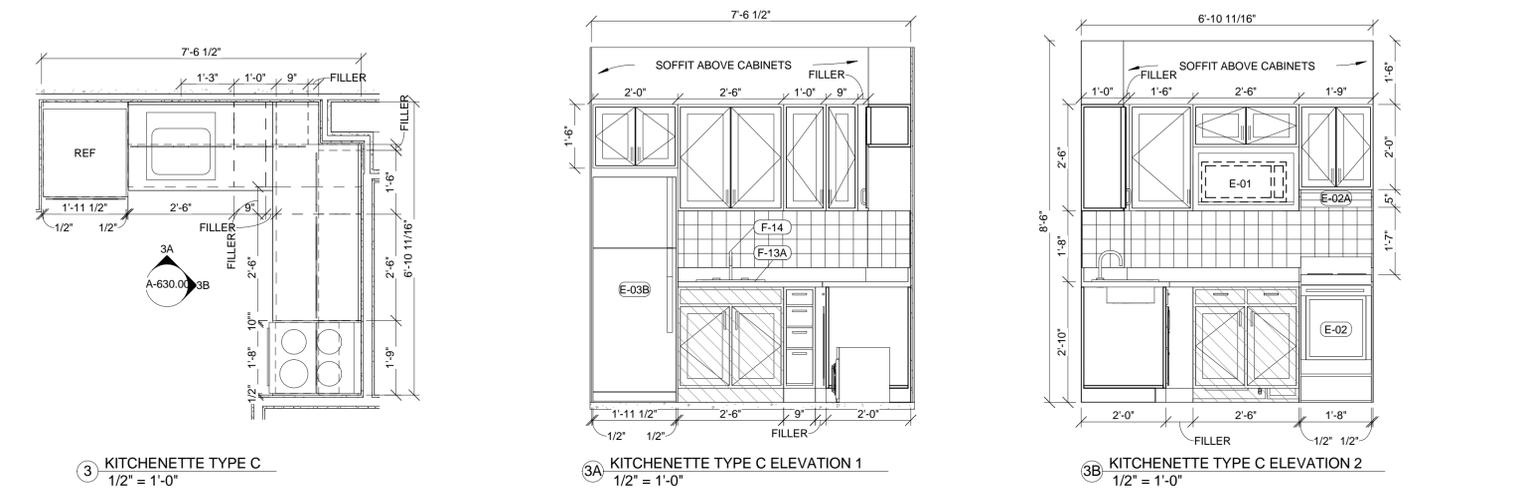
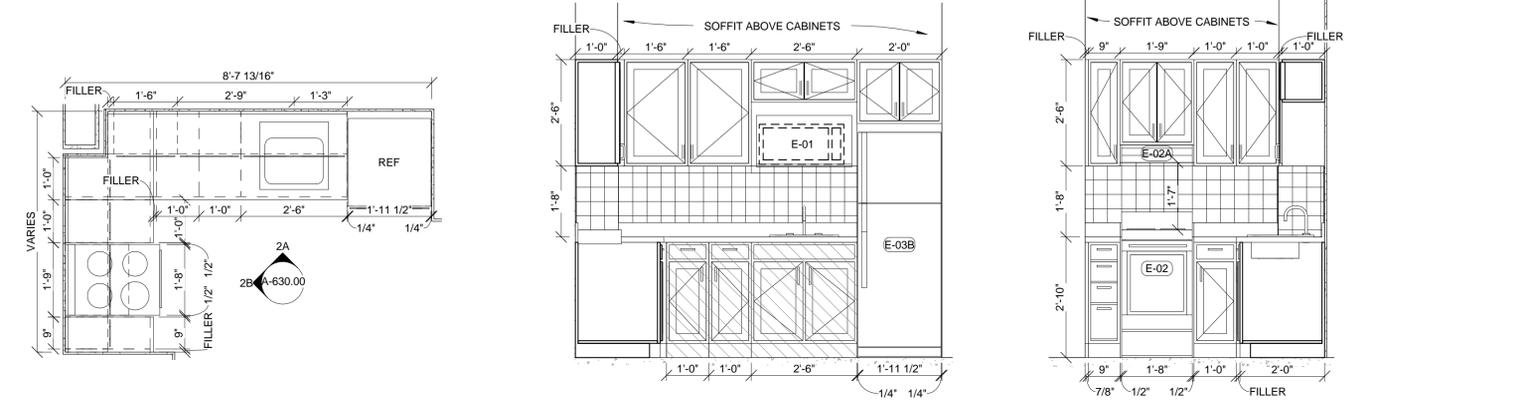
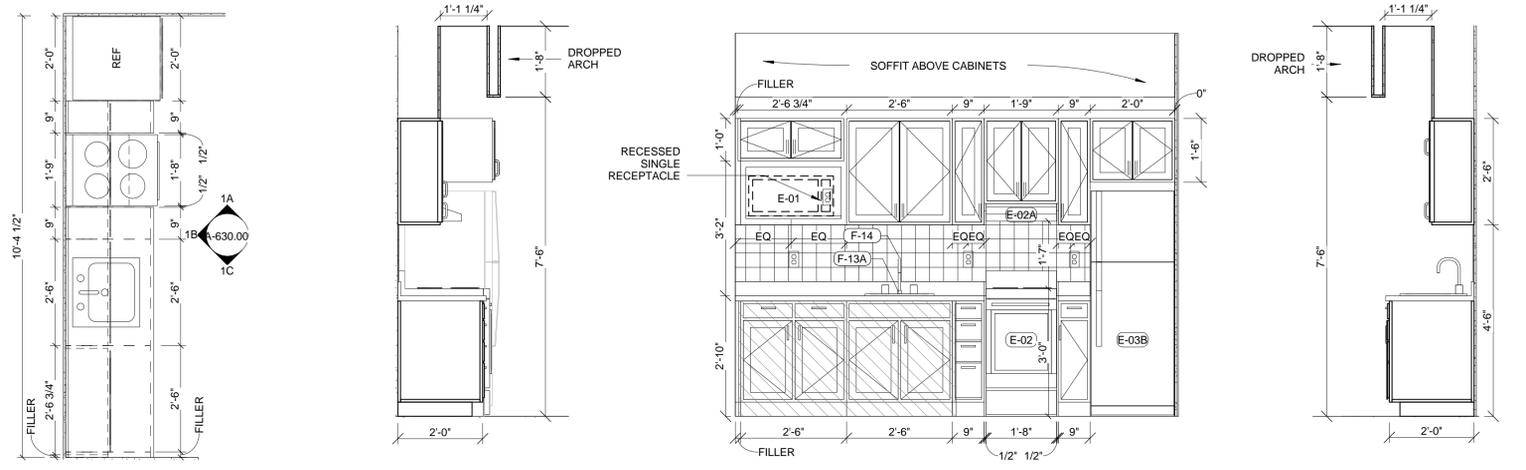
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No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
UNIT BATHROOMS II

Sign & Seal
 Job no. 12.08
 Drawn by JPH
 Checked by AM / TS
 Sheet scale As indicated
 Drawing No.
A-620.00

Date 01/20/14 DOB sheet 46 OF 49
 DOB NUMBER
220211955

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Project
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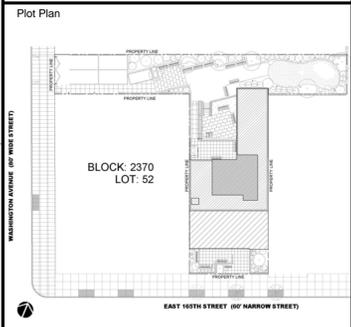
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Drawing Title
UNIT KITCHENETTES I

Sign & Seal	Job no.	12.08
	Drawn by	JPH
Date	Checked by	AM / TS
	Sheet scale	1/2" = 1'-0"
DOB NUMBER	Drawing No.	A-630.00
	Date	01/20/14
	DOB sheet	47 OF 49
		220211955

APARTMENT KITCHENETTE FIXTURE SCHEDULE			
TYPE	DESCRIPTION	MANUFACTURER	MODEL
F-13A	Single Bowl Sink	Elkay	LRAD1919
F-14	Colony Soft 2-Handle Kitchen Faucet with Gooseneck Spout	American Standard Inc.	4275.550

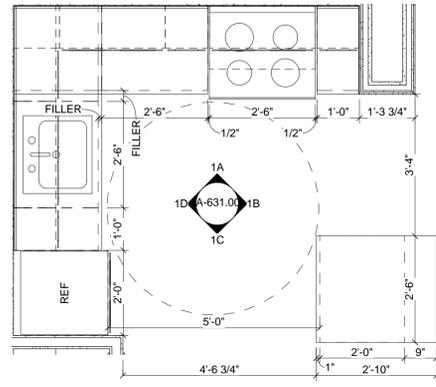
APARTMENT KITCHENETTE EQUIPMENT SCHEDULE			
TYPE	DESCRIPTION	MANUFACTURER	MODEL
E-01	Profile Series 1.0 Cu. Ft. Countertop Microwave Oven	GE	PEM31SM
E-02	20" Free-Standing Electric Range	Hotpoint	RA820DD
E-02A	20" wide Shell Hood	Summit	Shell20W
E-03	30" Free-Standing Electric Range	GE	JBS45DF
E-03A	30" wide Shell Hood	Summit	Shell30W
E-03B	Energy Star rated frost-free refrigerator-freezer in slim 24" width	Summit	FF1112W

LEGEND AND KITCHENETTE NOTES

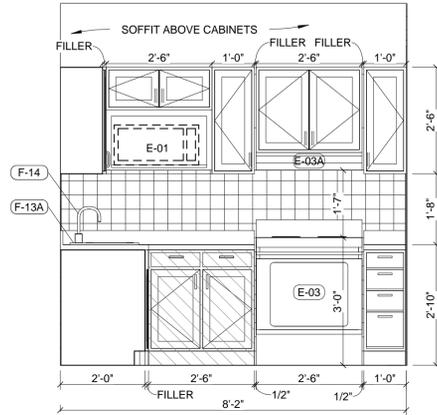
REMOVEABLE CABINETS

H G F E D C B A

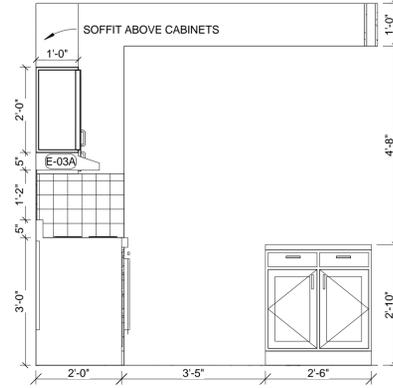
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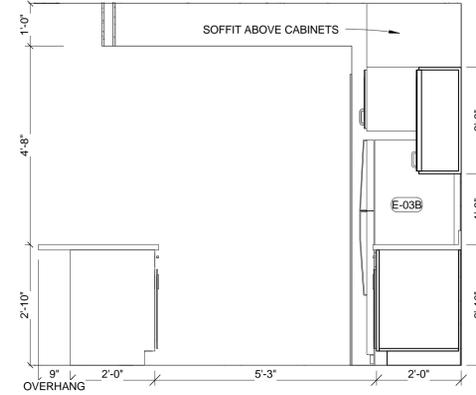
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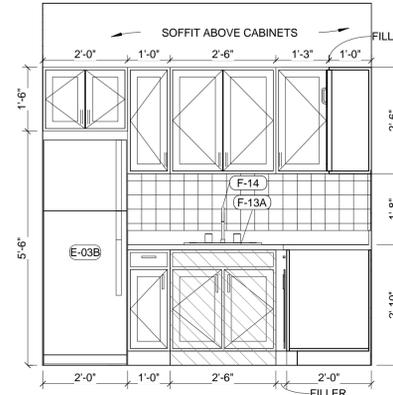
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1/2" = 1'-0"



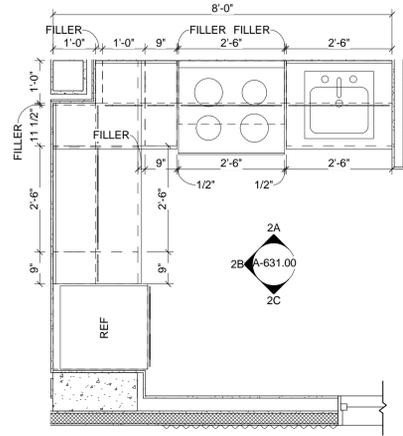
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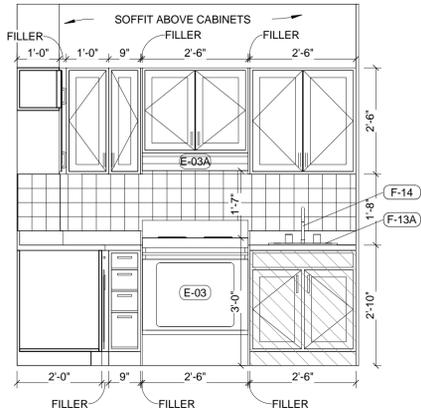
1C KITCHENETTE TYPE D ELEVATION 3
1/2" = 1'-0"



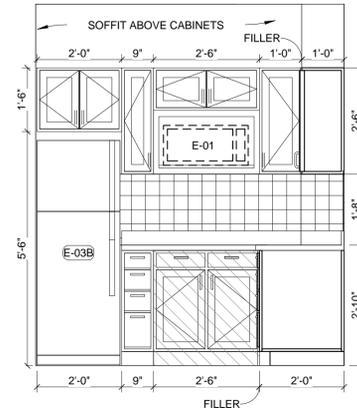
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1/2" = 1'-0"



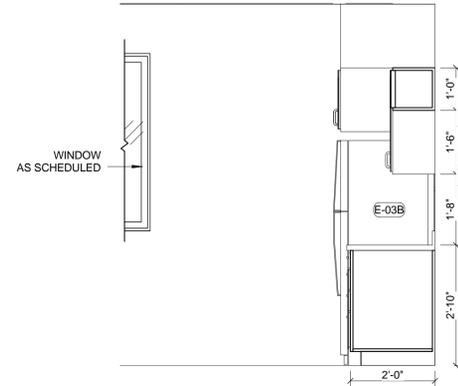
2 KITCHEN TYPE E
1/2" = 1'-0"



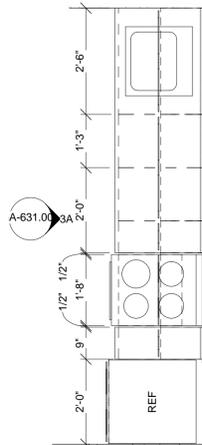
2A KITCHEN TYPE E ELEVATION 1
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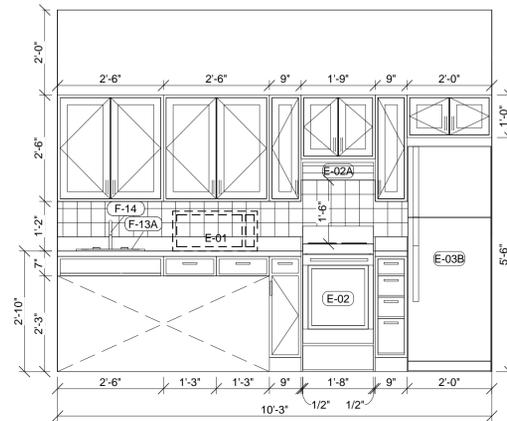
2B KITCHEN TYPE E ELEVATION 2
1/2" = 1'-0"



2C KITCHEN TYPE E ELEVATION 3
1/2" = 1'-0"



3 KITCHENETTE TYPE F
1/2" = 1'-0"



3A KITCHENETTE TYPE F ELEVATION 1
1/2" = 1'-0"

Project
491 E. 165TH STREET
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Owner
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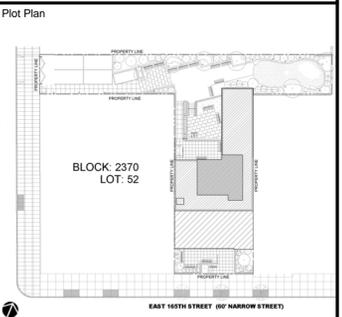
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Issuance Schedule		
No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
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Drawing Title
UNIT KITCHENETTES II

Sign & Seal	Job no.	12.08
	Drawn by	JPH
Date	Checked by	AM / TS
	Sheet scale	1/2" = 1'-0"
DOB NUMBER	Drawing No.	A-631.00
	Date	01/20/14
	DOB sheet	48 OF 49
		220211955

APARTMENT KITCHENETTE FIXTURE SCHEDULE				APARTMENT KITCHENETTE EQUIPMENT SCHEDULE				LEGEND AND KITCHENETTE NOTES
TYPE	DESCRIPTION	MANUFACTURER	MODEL	TYPE	DESCRIPTION	MANUFACTURER	MODEL	
F-13A	Single Bowl Sink	Elkay	LRAD1919	E-01	Profile Series 1.0 Cu. Ft. Countertop Microwave Oven	GE	PEM31SM	
F-14	Colony Soft 2-Handle Kitchen Faucet with Gooseneck Spout	American Standard Inc.	4275.550	E-02	20" Free-Standing Electric Range	Hotpoint	RA820DD	
				E-02A	20" wide Shell Hood	Summit	Shell20W	
				E-03	30" Free-Standing Electric Range	GE	JBS45DF	
				E-03A	30" wide Shell Hood	Summit	Shell30W	
				E-03B	Energy Star rated frost-free refrigerator-freezer in slim 24" width	Summit	FF1112W	

REMOVEABLE CABINETS

H G F E D C B A

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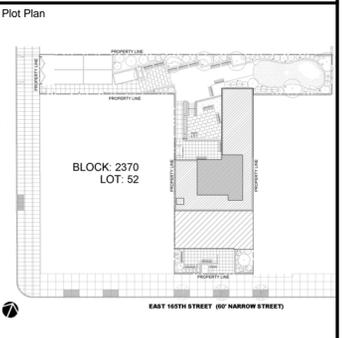
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No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
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Drawing Title
**SECURITY DESK
 DETAILS**

Sign & Seal	Job no.	12.08
	Drawn by	JPH
	Checked by	AM / TS
	Sheet scale	
Drawing No.		A-640.00

Date	01/20/14	DOB sheet
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DOB NUMBER
220211955

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491 E. 165TH STREET
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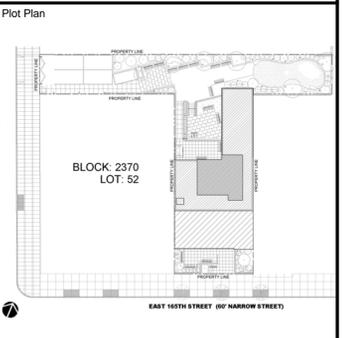
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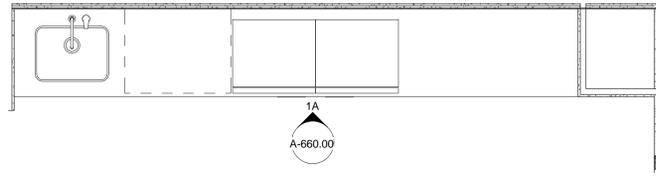
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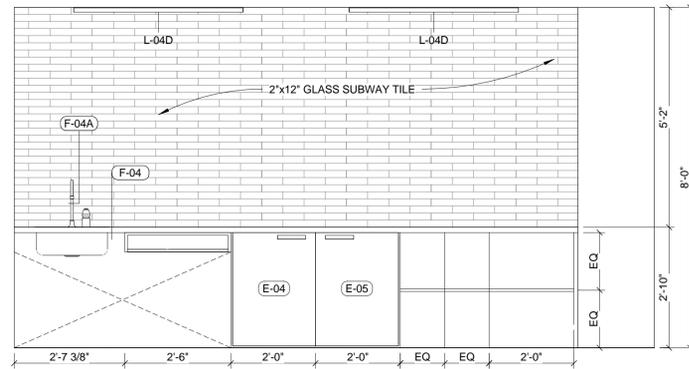
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	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
	01/20/2014	DOB SUBMISSION

Drawing Title
**LAUNDRY ROOM
 ELEVATIONS &
 DETAILS**

Sign & Seal	Job no.	12.08
	Drawn by	JPH
	Checked by	AM / TS
	Sheet scale	
Drawing No.		A-650.00
Date	01/20/14	DOB sheet
DOB NUMBER		220211955



1 PUBLIC KITCHEN
1/2" = 1'-0"



1A PUBLIC KITCHEN INTERIOR ELEVATION 1
1/2" = 1'-0"

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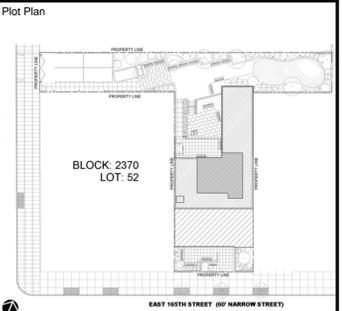
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No.	Date	Description
	12/16/2013	DESIGN DEVELOPMENT SUBMITTAL
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Drawing Title
INTERIOR ELEVATIONS

Sign & Seal

Job no. 12.08
Drawn by JPH
Checked by AM / TS
Sheet scale 1/2" = 1'-0"

Drawing No.
A-660.00

Date 01/20/14 DOB sheet 49 OF 49

DOB NUMBER
220211955



TABLES

Table 1: Construction Details for Soil Borings and Monitoring Wells

Remedial Investigation Report #13HAZ129X
491 E 165th Street and 1052 Washington Avenue, Bronx, NY

Soil Boring Identification Number	Completed Feature Identification Number	Date of Construction	Total Depth (feet bgs)	Diameter (inches)	Screened Interval (feet bgs)	Construction Material
SB-1	N/A	10/15/2012	6	2.25	N/A	N/A
SB-2	N/A	10/15/2012	16	2.25	N/A	N/A
SB-3	MW-2	10/15/2012	20	2.25	15/16 to 20*	1" PVC pipe
SB-4	SV-1	10/15/2012	20	2.25	N/A	N/A
SB-5	SV-2	10/15/2012	20	2.25	N/A	N/A
SB-6	MW-3	10/15/2012	20	2.25	15/16 to 20*	1" PVC pipe
SB-7	MW-4	10/15/2012	20	2.25	15/16 to 20*	1" PVC pipe
SB-8	N/A	10/15/2012	20	2.25	N/A	N/A
SV-3	N/A	10/15/2012	15	2.25	N/A	N/A
SV-4	N/A	10/15/2012	15	2.25	N/A	N/A

Table 2: Groundwater Level Data

Monitoring Well Identification	Date Measured	Water Elevation (feet bsg)
MW-2	10/15/2012	18
MW-3	10/15/2012	18
MW-4	10/15/2012	18

Notes:

N/A = Not Applicable

bsg = Below surface grade

* = Information was not expressly provided in the Phase II SIR and was therefore inferred based on standard practices

Table 3 (1 of 8): VOCs in Surface Soils

Remedial Investigation Report #13HAZ129X
491 E 165th Street and 1052 Washington Avenue, Bronx, NY

All values in µg/Kg (parts per billion, ppb)

Volatile Organic Compounds (USEPA 8260)	Guidance Level		Sample Identification							
	Unrestricted Use Soil Cleanup Objective	Restricted Use Residential Soil Cleanup	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
			(0-2') 10/15/2012	(0-2') 10/15/2012	(0-2') 10/15/2012	(0-2') 10/15/2012	(0-2') 10/15/2012	(0-2') 10/15/2012	(0-2') 10/15/2012	(0-2') 10/15/2012
1,1,1,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	680	100,000	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	100,000	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	100,000	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	270	19,000	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	330	100,000	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropylene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	80,000	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3,600	47,000	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1,100	100,000	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	20	2,300	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8,400	47,000	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2,400	17,000	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1,800	9,800	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	100	9,800	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	120	100,000	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	60	2,900	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	760	1,400	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1,100	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	370	10,000	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	250	59,000	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1,000	30,000	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	2,300	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	930	62,000	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	50	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	12,000	NE	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	12,000	100,000	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3,900	100,000	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	10,000	NE	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11,000	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5,900	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	1,300	5,500	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	700	100,000	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	190	100,000	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	470	10,000	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	20	210	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	260	100,000	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
Guidance levels based on 6 NYCRR Part 375, Table 375-6.8(a), Unrestricted Use SCOs, Table 375-6.8(b), Restricted Use Residential SCOs, and (as applicable) CP-51 SSCOs.
J = Data indicate the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
ND = Not Detected ; NE = Not Established
ESI File: PB14017.50

Table 3 (2 of 8): VOCs in Subsurface Soils
Remedial Investigation Report #13HAZ129X
491 E 165th Street and 1052 Washington Avenue, Bronx, NY

All values in µg/Kg (parts per billion, ppb)

Volatile Organic Compounds (USEPA 8260)	Guidance Level		SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
	Unrestricted Use Soil Cleanup Objective	Restricted Use Residential Soil Cleanup Objective	(15-16')	(17-19')	(17-19')	(17-19')	(17-19')	(17-19')	(17-19')
			10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012
1,1,1,2-Tetrachloroethane	NE	NE	ND						
1,1,1-Trichloroethane	680	100,000	ND						
1,1,2-Tetrachloroethane	NE	100,000	ND						
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	100,000	ND						
1,1,2-Trichloroethane	NE	NE	ND						
1,1-Dichloroethane	270	19,000	ND						
1,1-Dichloroethylene	330	100,000	ND						
1,1-Dichloropropylene	NE	NE	ND						
1,2,3-Trichlorobenzene	NE	NE	ND						
1,2,3-Trichloropropane	NE	80,000	ND						
1,2,4-Trichlorobenzene	NE	NE	ND						
1,2,4-Trimethylbenzene	3,600	47,000	ND						
1,2-Dibromo-3-chloropropane	NE	NE	ND						
1,2-Dibromoethane	NE	NE	ND						
1,2-Dichlorobenzene	1,100	100,000	ND						
1,2-Dichloroethane	20	2,300	ND						
1,2-Dichloropropane	NE	NE	ND						
1,3,5-Trimethylbenzene	8,400	47,000	ND						
1,3-Dichlorobenzene	2,400	17,000	ND						
1,3-Dichloropropane	NE	NE	ND						
1,4-Dichlorobenzene	1,800	9,800	ND						
1,4-Dioxane	100	9,800	ND						
2,2-Dichloropropane	NE	NE	ND						
2-Butanone (MEK)	120	100,000	ND						
2-Chlorotoluene	NE	NE	ND						
4-Chlorotoluene	NE	NE	ND						
Acetone	50	100,000	ND						
Benzene	60	2,900	ND						
Bromobenzene	NE	NE	ND						
Bromochloromethane	NE	NE	ND						
Bromodichloromethane	NE	NE	ND						
Bromoform	NE	NE	ND						
Bromomethane	NE	NE	ND						
Carbon tetrachloride	760	1,400	ND						
Chlorobenzene	1,100	100,000	ND						
Chloroethane	NE	NE	ND						
Chloroform	370	10,000	ND						
Chloromethane	NE	NE	ND						
cis-1,2-Dichloroethylene	250	59,000	ND						
cis-1,3-Dichloropropylene	NE	NE	ND						
Dibromochloromethane	NE	NE	ND						
Dibromomethane	NE	NE	ND						
Dichlorodifluoromethane	NE	NE	ND						
Ethyl Benzene	1,000	30,000	ND						
Hexachlorobutadiene	NE	NE	ND						
Isopropylbenzene	2,300	100,000	ND						
Methyl tert-butyl ether (MTBE)	930	62,000	ND						
Methylene chloride	50	100,000	ND						
Naphthalene	12,000	NE	ND						
n-Butylbenzene	12,000	100,000	ND						
n-Propylbenzene	3,900	100,000	ND						
o-Xylene	NE	NE	ND						
p- & m- Xylenes	NE	NE	ND						
p-Isopropyltoluene	10,000	NE	ND						
sec-Butylbenzene	11,000	100,000	ND						
Styrene	NE	NE	ND						
tert-Butylbenzene	5,900	100,000	ND						
Tetrachloroethylene (PCE)	1,300	5,500	ND						
Toluene	700	100,000	ND						
trans-1,2-Dichloroethylene	190	100,000	ND						
trans-1,3-Dichloropropylene	NE	NE	ND						
Trichloroethylene (TCE)	470	10,000	ND						
Trichlorofluoromethane	NE	NE	ND						
Vinyl chloride	20	210	ND						
Vinyl acetate	NE	NE	ND						
Xylenes, Total	260	100,000	ND						

Notes:

Guidance levels based on 6 NYCRR Part 375, Table 375-6.8(a), Unrestricted Use SCOs, Table 375-6.8(b), Restricted Use Residential SCOs, and (as applicable) CP-51 SSCOs.

J = Data indicate the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

ND = Not Detected ; NE = Not Established

ESI File: PB14017.50

Table 3 (3 of 8): SVOCs in Surface Soil

All values in µg/Kg (parts per billion, ppb)

Semi-Volatile Organic Compounds (USEPA Method 8270)	Guidance Level		Sample Identification							
	Unrestricted Use Soil Cleanup	Restricted Use Residential Soil Cleanup	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
			(0-2') 10/15/2012	(0-2') 10/15/2012	(0-2') 10/15/2012	(0-2') 10/15/2012	(0-2') 10/15/2012	(0-2') 10/15/2012	(0-2') 10/15/2012	(0-2') 10/15/2012
1,2,4-Trichlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	NE	100,000	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	NE	100,000	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	NE	1,030	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE	100,000	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NE	410	1,100	750	ND	ND	ND	ND	ND	ND
2-Methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
3- & 4-Methylphenols	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20,000	100,000	400	350	ND	ND	ND	ND	ND	ND
Acenaphthylene	100,000	100,000	ND	ND	460	2,100	ND	ND	ND	ND
Aniline	NE	48,000	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100,000	100,000	ND	ND	410	1,000	ND	ND	590	920
Benzo(a)anthracene	1,000	1,000	420	730	2,600	6,100	900	1,400	1,500	1,200
Benzo(a)pyrene	1,000	1,000	430	730	2,400	6,300	820	1,300	1,500	1,100
Benzo(b)fluoranthene	1,000	1,000	580	970	4,100	10,000	1,000	1,900	1,900	1,700
Benzo(g,h,i)perylene	100,000	100,000	590	580	970	3,500	700	ND	620	680
Benzo(k)fluoranthene	800	1,000	ND	330	1,500	2,500	350	ND	710	610
Benzyl alcohol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl butyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	NE	50,000	410	440	580	640	270	ND	3,400	520
Chrysene	1,000	1,000	470	840	3,000	7,000	890	ND	1,400	1,600
Dibenzo(a,h)anthracene	330	330	ND	ND	ND	900	ND	ND	ND	ND
Dibenzofuran	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	NE	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	NE	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	NE	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	NE	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100,000	100,000	810	1,500	4,500	8,200	1,800	ND	2,900	2,200
Fluorene	30,000	100,000	3,770	ND						
Hexachlorobenzene	NE	410	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	500	500	300	480	950	3,100	500	ND	570	ND
Isophorone	NE	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	12,000	100,000	1,100	1,100	ND	ND	ND	ND	ND	ND
Nitrobenzene	NE	3,700	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodimethylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
N-nitroso-di-n-propylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	800	2,400	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100,000	100,000	380	870	2,700	5,400	940	ND	2,300	1,800
Phenol	330	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	100,000	100,000	800	1,400	3,800	7,700	1,800	1,400	2,500	1,700
Pyridine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Total SVOCs	NE	NE	11,560	11,070	27,970	64,440	9,970	6,000	19,890	14,030

Notes:

Guidance levels based on 6 NYCRR Part 375, Table 375-6.8(a), Unrestricted Use SCOs, Table 375-6.8(b), Restricted Use Residential SCOs, and (as applicable) CP-51 SSCOs.

ND = Not Detected ; NE = Not Established

Blue shade indicates detectable concentrations.

Bold and green shade indicates exceedance of Restricted Use Residential SCOs

ESI File: PB14017.50

Table 3 (4 of 8): SVOCs in Subsurface Soil

All values in µg/Kg (parts per billion, ppb)

Semi-Volatile Organic Compounds (USEPA Method 8270)	Guidance Level		SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
	Unrestricted Use Soil Cleanup Objective	Restricted Use Residential Soil Cleanup Objective	(15-16')	(17-19')	(17-19')	(17-19')	(17-19')	(17-19')	(17-19')
			10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012
1,2,4-Trichlorobenzene	NE	NE	ND						
1,2-Dichlorobenzene	NE	NE	ND						
1,3-Dichlorobenzene	NE	NE	ND						
1,4-Dichlorobenzene	NE	NE	ND						
2,4,5-Trichlorophenol	NE	100,000	ND						
2,4,6-Trichlorophenol	NE	NE	ND						
2,4-Dichlorophenol	NE	NE	ND						
2,4-Dimethylphenol	NE	NE	ND						
2,4-Dinitrophenol	NE	100,000	ND						
2,4-Dinitrotoluene	NE	NE	ND						
2,6-Dinitrotoluene	NE	1,030	ND						
2-Chloronaphthalene	NE	NE	ND						
2-Chlorophenol	NE	100,000	ND						
2-Methylnaphthalene	NE	410	ND						
2-Methylphenol	NE	NE	ND						
2-Nitroaniline	NE	NE	ND						
2-Nitrophenol	NE	NE	ND						
3- & 4-Methylphenols	NE	NE	ND						
3,3'-Dichlorobenzidine	NE	NE	ND						
3-Nitroaniline	NE	NE	ND						
4,6-Dinitro-2-methylphenol	NE	NE	ND						
4-Bromophenyl phenyl ether	NE	NE	ND						
4-Chloro-3-methylphenol	NE	NE	ND						
4-Chloroaniline	NE	NE	ND						
4-Chlorophenyl phenyl ether	NE	NE	ND						
4-Nitroaniline	NE	NE	ND						
4-Nitrophenol	NE	NE	ND						
Acenaphthene	20,000	100,000	ND						
Acenaphthylene	100,000	100,000	ND						
Aniline	NE	48,000	ND						
Anthracene	100,000	100,000	ND						
Benzo(a)anthracene	1,000	1,000	ND						
Benzo(a)pyrene	1,000	1,000	ND						
Benzo(b)fluoranthene	1,000	1,000	ND						
Benzo(g,h,i)perylene	100,000	100,000	ND						
Benzo(k)fluoranthene	800	1,000	ND						
Benzyl alcohol	NE	NE	ND						
Benzyl butyl phthalate	NE	NE	ND						
Bis(2-chloroethoxy)methane	NE	NE	ND						
Bis(2-chloroethyl)ether	NE	NE	ND						
Bis(2-chloroisopropyl)ether	NE	NE	ND						
Bis(2-ethylhexyl)phthalate	NE	50,000	340	ND	ND	ND	ND	ND	ND
Chrysene	1,000	1,000	ND						
Dibenzo(a,h)anthracene	330	330	ND						
Dibenzofuran	NE	NE	ND						
Diethyl phthalate	NE	100,000	ND						
Dimethyl phthalate	NE	100,000	ND						
Di-n-butyl phthalate	NE	100,000	ND						
Di-n-octyl phthalate	NE	100,000	ND						
Fluoranthene	100,000	100,000	ND						
Fluorene	30,000	100,000	ND						
Hexachlorobenzene	NE	410	ND						
Hexachlorobutadiene	NE	NE	ND						
Hexachlorocyclopentadiene	NE	NE	ND						
Hexachloroethane	NE	NE	ND						
Indeno(1,2,3-cd)pyrene	500	500	ND						
Isophorone	NE	100,000	ND						
Naphthalene	12,000	100,000	ND						
Nitrobenzene	NE	3,700	ND						
N-Nitrosodimethylamine	NE	NE	ND						
N-nitroso-di-n-propylamine	NE	NE	ND						
N-Nitrosodiphenylamine	NE	NE	ND						
Pentachlorophenol	800	2,400	ND						
Phenanthrene	100,000	100,000	ND						
Phenol	330	100,000	ND						
Pyrene	100,000	100,000	ND						
Pyridine	NE	NE	ND						
Total SVOCs	NE	NE	ND						

Notes:

Guidance levels based on 6 NYCRR Part 375, Table 375-6.8(a), Unrestricted Use SCOs, Table 375-6.8(b), Restricted Use Residential SCOs, and (as applicable) CP-51 SSCOs.

ND = Not Detected ; NE = Not Established

Blue shade indicates detectable concentrations.

ESI File: PB14017.50

Table 3 (5 of 8): PCBs and Pesticides in Surface Soils

Remedial Investigation Report #13HAZ129X
491 E 165th Street and 1052 Washington Avenue, Bronx, NY

All values in µg/Kg (parts per billion, ppb)

PCBs (USEPA Method 8082)	Guidance Level		Sample Identification								
	Unrestricted Use Soil Cleanup Objective	Restricted Use Residential Soil Cleanup	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8	
			(0-2')	(0-2')	(0-2')	(0-2')	(0-2')	(0-2')	(0-2')	(0-2')	(0-2')
			10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012
Aroclor 1016	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1262	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1268	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor, Total	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides (USEPA Method 8081)											
4,4-DDD	3.3	2,600	ND	ND	ND	83	ND	ND	ND	ND	ND
4,4-DDE	3.3	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4-DDT	3.3	1,700	ND	ND	ND	120	38	ND	ND	80	ND
Aldrin	5	19	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	20	97	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	36	92	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	94	910	88	ND	ND	200	ND	ND	ND	94	ND
delta-BHC	40	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	7,000	14,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	5	39	15	ND	ND	27	ND	ND	ND	16	ND
Endosulfan I	2,400	4,800	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	2,400	4,800	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	2,400	4,800	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	14	2,200	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Enrin ketone	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	100	280	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	42	420	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	NE	77	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	NE	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Guidance levels based on 6 NYCRR Part 375, Table 375-6.8(a), Unrestricted Use SCOs, Table 375-6.8(b), Restricted Use Residential SCOs, and (as applicable) CP-51 SSCOs.

ND = Not Detected ; NE = Not Established

Blue shade indicates detectable concentrations.

Bold and yellow shade indicates exceedance of Unrestricted Use SCOs

ESI File: PB14017.50

Table 3 (6 of 8): PCBs and Pesticides in Surface Soils
**Remedial Investigation Report #13HAZ129X
491 E 165th Street and 1052 Washington Avenue, Bronx, NY**

All values in µg/Kg (parts per billion, ppb)

PCBs (USEPA Method 8082)	Guidance Level		SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
	Unrestricted Use Soil Cleanup Objective	Restricted Use Residential Soil Cleanup Objective	(15-16')	(17-19')	(17-19')	(17-19')	(17-19')	(17-19')	(17-19')
			10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012
Aroclor 1016	100	1,000	ND						
Aroclor 1221	100	1,000	ND						
Aroclor 1232	100	1,000	ND						
Aroclor 1242	100	1,000	ND						
Aroclor 1248	100	1,000	ND						
Aroclor 1254	100	1,000	ND						
Aroclor 1260	100	1,000	ND						
Aroclor 1262	100	1,000	ND						
Aroclor 1268	100	1,000	ND						
Aroclor, Total	100	1,000	ND						
Pesticides (USEPA Method 8081)									
4,4-DDD	3.3	2,600	ND						
4,4-DDE	3.3	1,800	ND						
4,4-DDT	3.3	1,700	ND						
Aldrin	5	19	ND						
alpha-BHC	20	97	ND						
beta-BHC	36	92	ND						
Chlordane	94	910	ND						
delta-BHC	40	100,000	ND						
Dibenzofuran	7,000	14,000	ND						
Dieldrin	5	39	ND						
Endosulfan I	2,400	4,800	ND						
Endosulfan II	2,400	4,800	ND						
Endosulfan sulfate	2,400	4,800	ND						
Endrin	14	2,200	ND						
Endrin aldehyde	NE	NE	ND						
Endrin ketone	NE	NE	ND						
gamma-BHC (Lindane)	100	280	ND						
Heptachlor	42	420	ND						
Heptachlor epoxide	NE	77	ND						
Methoxychlor	NE	100,000	ND						
Toxaphene	NE	NE	ND						

Notes:

Guidance levels based on 6 NYCRR Part 375, Table 375-6.8(a), Unrestricted Use SCOs, Table 375-6.8(b), Restricted Use Residential SCOs, and (as applicable) CP-51 SSCOs.

ND = Not Detected ; NE = Not Established

ESI File: PB14017.50

Table 3 (7 of 8): TAL Metals in Surface Soils

 Remedial Investigation Report #13HAZ129X
 491 E 165th Street and 1052 Washington Avenue, Bronx, NY

All values in mg/Kg (parts per million, ppm)

Total Analyte List Metals	Guidance Level		Sample Identificaiton							
	Unrestricted Use Soil Cleanup Objective	Restricted Use Residential Soil Cleanup Objective	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
			(0-2')	(0-2')	(0-2')	(0-2')	(0-2')	(0-2')	(0-2')	(0-2')
			10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012
Aluminum	NE	NE	8,860	9,820	14,100	5,910	5,160	7,910	7,760	6,150
Antimony	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	13	16	2.7	4.4	5.6	4.8	2.2	4.7	5.1	3.2
Barium	350	350	282	1,060	260	1,440	173	149	169	459
Beryllium	7.2	14	0.32	0.32	0.49	ND	ND	0.46	ND	ND
Cadmium	2.5	2.5	1.04	1.95	1.60	1.40	0.68	0.90	1.11	1.24
Calcium	NE	NE	6,390	7,410	2,810	48,700	4,110	59,400	50,000	62,700
Chromium (total)	30	36	21.7	26.4	26.8	17.6	18.8	26.5	25.2	47.8
Cobalt	NE	36	6.55	7.70	7.99	4.74	4.03	6.29	5.38	4.97
Copper	50	270	29.3	43.6	32.8	28.8	21.8	41.1	50.8	41.0
Iron	NE	2,000	13,400	18,600	19,100	9,040	15,600	15,900	12,900	13,400
Lead	63	400	349	1,120	308	384	120	128	125	210
Magnesium	NE	NE	3,270	3,890	3,360	3,110	1,990	14,300	6,150	8,190
Manganese	1,600	2,000	245	354	467	169	375	209	201	184
Mercury	0.18	0.31	0.23	0.82	0.93	0.25	0.38	ND	0.27	ND
Nickel	30	140	16.2	20.0	17.0	12.6	10.4	21.8	23.4	16.8
Potassium	NE	NE	980	828	1,130	773	653	2,920	2,080	1,970
Selenium	3.9	36	ND	ND	ND	2.0	ND	ND	ND	ND
Silver	2	36	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	NE	NE	141	141	125	684	85.7	505	307	595
Thallium	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NE	100	28.7	34.9	33.6	21.8	18.6	35.6	47.7	26.2
Zinc	109	2,200	225	566	440	777	122	106	131	89

 Notes:
 Guidance levels based on 6 NYCRR Part 375, Table 375-6.8(a), Unrestricted Use SCOs, Table 375-6.8(b), Restricted Use Residential SCOs, and (as applicable) CP-51 SSCOs.

ND = Not Detected ; NE = Not Established

Blue shade indicates detectable concentrations.

Bold and yellow shade indicates exceedance of Unrestricted Use SCOs

Bold and green shade indicates exceedance of Restricted Use Residential SCOs

ESI File: PB14017.50

Table 3 (8 of 8): TAL Metals in Surface Soils

Remedial Investigation Report #13HAZ129X
491 E 165th Street and 1052 Washington Avenue, Bronx, NY

All values in mg/Kg (parts per million, ppm)

Total Analyte List Metals	Guidance Level		Sample Identificaiton						
	Unrestricted Use Soil Cleanup Objective	Restricted Use Residential Soil Cleanup Objective	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
			(15-16')	(17-19')	(17-19')	(17-19')	(17-19')	(17-19')	(17-19')
			10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012
Aluminum	NE	NE	8,580	6,910	4,030	9,460	9,070	7,620	3,910
Antimony	NE	NE	ND	ND	ND	ND	ND	ND	ND
Arsenic	13	16	1.4	0.8	ND	1.5	ND	ND	ND
Barium	350	350	41.1	63.0	24.5	36.1	42.8	60.5	27.0
Beryllium	7.2	14	ND	0.70	ND	ND	0.51	ND	ND
Cadmium	2.5	2.5	0.85	0.75	ND	0.57	0.85	0.59	ND
Calcium	NE	NE	5,020	106,000	3,010	125,000	2,000	3,190	1,340
Chromium (total)	30	36	34.0	13.8	11.0	17.9	47.3	24.7	13.4
Cobalt	NE	36	9.33	5.53	4.04	3.82	6.52	8.57	5.75
Copper	50	270	46.2	12.4	13.6	11.0	28.9	31.6	13.3
Iron	NE	2,000	20,300	15,200	8,500	10,000	20,700	18,200	10,700
Lead	63	400	13.9	4.73	2.78	2.10	5.16	2.89	2.42
Magnesium	NE	NE	6,890	57,500	3,490	94,000	6,100	4,840	2,370
Manganese	1,600	2,000	235	617	186	254	336	356	247
Mercury	0.18	0.31	ND	ND	ND	ND	ND	ND	ND
Nickel	30	140	19.9	9.49	9.55	5.16	19.3	20.0	12.4
Potassium	NE	NE	1,480	1,960	1,320	1,330	4,070	2,860	1,090
Selenium	3.9	36	ND	ND	1.5	ND	ND	ND	ND
Silver	2	36	ND	ND	ND	ND	ND	ND	ND
Sodium	NE	NE	391	210	265	693	120	355	131
Thallium	NE	NE	ND	ND	ND	ND	ND	ND	ND
Vanadium	NE	100	35.8	19.9	18.4	24.4	32.5	33.7	16.0
Zinc	109	2,200	44.2	43.9	16.5	18.7	49.8	38.4	15.9

Notes:
Guidance levels based on 6 NYCRR Part 375, Table 375-6.8(a), Unrestricted Use SCOs, Table 375-6.8(b), Restricted Use Residential SCOs, and (as applicable) CP-51 SSCOs.
ND = Not Detected ; NE = Not Established

Blue shade indicates detectable concentrations.
Blue and yellow shade indicates exceedance of Unrestricted Use SCOs
Blue and green shade indicates exceedance of Restricted Use Residential SCOs

Table 4 (1 of 4): VOCs in Groundwater

Remedial Investigation Report #13HAZ129X
491 E 165th Street and 1052 Washington Avenue, Bronx, NY

All values in µg/L

Volatile Organic Compounds (USEPA Method 8260)	Regulatory Criteria	Sample Identification		
		GW-2	GW-3	GW-4
		(10/15/2012)	(10/15/2012)	(10/15/2012)
1,1,1,2-Tetrachloroethane	5	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND
1,1-Dichloroethylene	5	ND	ND	ND
1,1-Dichloropropylene	5	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND	ND	ND
1,2-Dibromoethane	5	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND
2-Chlorotoluene	5	ND	ND	ND
4-Chlorotoluene	5	ND	ND	ND
Acetone	5	ND	ND	ND
Benzene	1	ND	ND	ND
Bromobenzene	5	ND	ND	ND
Bromochloromethane	5	ND	ND	ND
Bromodichloromethane	50	ND	ND	ND
Bromoform	50	ND	ND	ND
Bromomethane	5	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND
Chlorobenzene	5	ND	ND	ND
Chloroethane	5	ND	ND	ND
Chloroform	7	ND	33	29
Chloromethane	5	ND	ND	ND
cis-1,2-Dichloroethylene (DCE)	5	ND	ND	ND
cis-1,3-Dichloropropylene	0.4	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND
Dibromomethane	5	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND
Ethylbenzene	5	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND
Methyl tert-butyl ether (MTBE)	10	ND	ND	ND
Methylene chloride	5	ND	ND	ND
Naphthalene	10	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND
o-Xylene	5	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND
Styrene	5	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND
Tetrachloroethylene (PCE)	5	1.3	1.8	4.2
Toluene	5	ND	ND	ND
trans-1,2-Dichloroethylene (DCE)	5	ND	ND	ND
trans-1,3-Dichloropropylene	0.4	ND	ND	ND
Trichloroethylene (TCE)	5	ND	ND	1.2
Trichlorofluoromethane	5	ND	ND	ND
Vinyl chloride (VC)	2	ND	ND	ND

Notes:

Regulatory Criteria based on water quality standards and guidance values presented in NYSDEC Division of Water TOGS 1.1.1 (June 1998).

ND = Not Detected ; NE = Not Established

Blue shade indicates detectable concentrations.

Bold and yellow shade indicates exceedance of regulatory criteria

Table 4 (2 of 4): SVOCs in Groundwater

Remedial Investigation Report #13HAZ129X
491 E 165th Street and 1052 Washington Avenue, Bronx, NY

All values in µg/L

Semi-Volatile Organic Compounds (USEPA Method 8270)	Regulatory Criteria	Sample Identification		
		GW-2	GW-3	GW-4
		(10/15/2012)	(10/15/2012)	(10/15/2012)
1,2,4-Trichlorobenzene	5	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND
2,4,5-Trichlorophenol	NE	ND	ND	ND
2,4,6-Trichlorophenol	NE	ND	ND	ND
2,4-Dichlorophenol	5	ND	ND	ND
2,4-Dimethylphenol	50	ND	ND	ND
2,4-Dinitrophenol	10	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND
2-Chloronaphthalene	10	ND	ND	ND
2-Chlorophenol	NE	ND	ND	ND
2-Methylnaphthalene	NE	ND	ND	ND
2-Methylphenol	NE	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND
2-Nitrophenol	NE	ND	ND	ND
3- & 4-Methylphenols	NE	ND	ND	ND
3,3-Dichlorobenzidine	5	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND
4,6-Dinitro-2-methylphenol	NE	ND	ND	ND
4-Bromophenyl phenyl ether	NE	ND	ND	ND
4-Chloro-3-methylphenol	NE	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND
4-Chlorophenyl phenyl ether	NE	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND
4-Nitrophenol	5	ND	ND	ND
Acenaphthene	20	ND	ND	ND
Acenaphthylene	NE	ND	0.07	ND
Aniline	5	ND	ND	ND
Anthracene	50	ND	ND	ND
Benzo(a)anthracene	0.002	0.04	0.59	ND
Benzo(a)pyrene	NE	ND	0.45	ND
Benzo(b)fluoranthene	0.002	ND	0.64	ND
Benzo(ghi)perylene	NE	ND	ND	ND
Benzo(k)fluoranthene	0.002	ND	0.23	ND
Benzyl alcohol	NE	ND	ND	ND
Benzyl butyl phthalate	NE	ND	ND	ND
Bis(2-chloroethoxy)methane	5	ND	ND	ND
Bis(2-chloroethyl)ether	1	ND	ND	ND
Bis(2-chloroisopropyl)ether	NE	ND	ND	ND
Bis(2-ethylhexyl)phthalate	5	ND	3.9	ND
Chrysene	0.002	ND	0.62	ND
Dibenzo(a,h)anthracene	NE	ND	0.08	ND
Dibenzofuran	NE	ND	ND	ND
Diethyl phthalate	50	ND	ND	ND
Dimethyl phthalate	50	ND	ND	ND
Di-n-butyl phthalate	50	ND	ND	ND
Di-n-octyl phthalate	50	ND	ND	ND
Fluoranthene	50	ND	ND	ND
Fluorene	50	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND
Hexachloroethane	5	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	ND	0.25	ND
Isophorone	50	ND	ND	ND
Naphthalene	10	ND	ND	ND
Nitrobenzene	0.4	ND	ND	ND
n-Nitrosodimethylamine	50	ND	ND	ND
n-Nitroso-di-n-propylamine	NE	ND	ND	ND
n-Nitrosodiphenylamine	50	ND	ND	ND
Pentachlorophenol	1	ND	ND	ND
Phenanthrene	50	ND	0.68	ND
Phenol	1	ND	ND	ND
Pyrene	50	ND	ND	ND
Pyridine	50	ND	ND	ND
Total SVOCs	NE	0.04	7.51	0

Notes:

Regulatory Criteria based on water quality standards and guidance values presented in NYSDEC Division of Water TOGS 1.1.1 (June 1998).

ND = Not Detected ; NE = Not Established

Blue shade indicates detectable concentrations.

Bold and yellow shade indicates exceedance of regulatory criteria

Table 4 (3 of 4): Pesticides and PCBs in Groundwater

Remedial Investigation Report #13HAZ129X
491 E 165th Street and 1052 Washington Avenue, Bronx, NY

All values in µg/L

Pesticides (USEPA Method 8081)	Regulatory Criteria	Sample Identification		
		GW-2	GW-3	GW-4
		(10/15/2012)	(10/15/2012)	(10/15/2012)
4,4'-DDD	0.30	ND	ND	ND
4,4'-DDE	0.20	ND	0.12	ND
4,4'-DDT	0.20	ND	0.74	ND
Aldrin	NE	ND	0.003	ND
alpha-BHC	0.01	ND	ND	ND
beta-BHC	0.04	ND	ND	ND
Chlordane	0.05	ND	0.36	ND
delta-BHC	0.04	ND	ND	ND
Dieldrin	0.004	ND	0.057	ND
Endosulfan I	NE	ND	ND	ND
Endosulfan II	NE	ND	ND	ND
Endosulfan sulfate	NE	ND	ND	ND
Endrin	NE	ND	ND	ND
Endrin aldehyde	5	ND	ND	ND
gamma-BHC (Lindane)	0.05	ND	ND	ND
Heptachlor	0.04	ND	ND	ND
Heptachlor Epoxide	0.03	ND	ND	ND
Toxaphene	0.06	ND	ND	ND
PCBs (USEPA Method 8082)				
Aroclor 1016	100	ND	ND	ND
Aroclor 1221	100	ND	ND	ND
Aroclor 1232	100	ND	ND	ND
Aroclor 1242	100	ND	ND	ND
Aroclor 1248	100	ND	ND	ND
Aroclor 1254	100	ND	ND	ND
Aroclor 1260	100	ND	ND	ND
Aroclor 1262	100	ND	ND	ND
Aroclor 1268	100	ND	ND	ND
Aroclor, Total	100	ND	ND	ND

Notes:

Regulatory Criteria based on water quality standards and guidance values presented in NYSDEC Division of Water TOGS 1.1.1 (June

ND = Not Detected ; NE = Not Established

Blue shade indicates detectable concentrations.

Blue and yellow shade indicates exceedance of regulatory criteria

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Table 4 (4 of 4): Metals in Groundwater

 Remedial Investigation Report #13HAZ129X
 491 E 165th Street and 1052 Washington Avenue, Bronx, NY

All values in mg/L

TAL Metals	Regulatory Criteria	Sample Identification					
		GW-2		GW-3		GW-4	
		(10/15/2012)		(10/15/2012)		(10/15/2012)	
		Total	Dissolved	Total	Dissolved	Total	Dissolved
Aluminum	NE	29.7	0.06	12.1	ND	26.6	0.11
Antimony	0.003	ND	ND	ND	ND	ND	ND
Arsenic	0.025	ND	ND	ND	0.009	0.006	0.005
Barium	1	0.3	0.022	1.03	0.059	0.291	0.022
Beryllium	0.003	0.003	ND	ND	ND	0.003	ND
Cadmium	0.005	ND	ND	ND	ND	ND	ND
Calcium	NE	265	48.5	93.5	62.5	246	46.8
Chromium	0.05	0.065	ND	0.04	ND	0.058	ND
Cobalt	0.005	0.033	ND	0.017	ND	0.03	ND
Copper	2	0.095	ND	0.059	ND	0.091	ND
Iron	3*	62.5	0.092	27.6	0.017	56.3	0.137
Lead	0.025	0.042	ND	0.141	ND	0.046	0.004
Magnesium	35	104	14.8	32.3	20.6	95.1	15.1
Manganese	3*	2.66	0.003	0.847	0.011	2.28	0.004
Mercury	0.0007	ND	ND	ND	ND	ND	ND
Nickel	1	0.054	ND	0.031	ND	0.047	ND
Potassium	NE	24.1	3.5	9.3	4.5	23.7	3.4
Selenium	0.01	ND	ND	ND	ND	ND	ND
Silver	0.05	ND	ND	ND	ND	ND	ND
Sodium	20	53.7	33.7	56.5	45.5	95.1	31.6
Thallium	0.005	ND	ND	ND	ND	ND	ND
Vanadium	0.014	0.076	ND	0.04	ND	0.068	ND
Zinc	2	0.227	ND	0.402	0.007	0.29	ND

Notes:

Regulatory Criteria based on water quality standards and guidance values presented in NYSDEC Division of Water TOGS 1.1.1 (June ND = Not Detected ; NE = Not Established

Blue shade indicates detectable concentrations.

Bold and yellow shade indicates exceedance of regulatory criteria

* = Guidance level for total iron and manganese is 500 mg/L

ESI File: PB14017.50

Table 5: VOCs in Soil Gas

Remedial Investigation Report #13HAZ129X
491 E 165th Street and 1052 Washington Avenue, Bronx, N

Results provided in $\mu\text{g}/\text{m}^3$

VOCs (USEPA TO-15 Method)	Guideline	Sample Identification			
		SV-1	SV-2	SV-3	SV-4
		(10/15/2012)	(10/15/2012)	(10/15/2012)	(10/15/2012)
1,1,1-Trichloroethane	NE	1.25	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	ND	ND	ND	ND
1,1,2-Trichloroethane	NE	ND	ND	ND	ND
1,1-Dichloroethane	NE	ND	ND	ND	ND
1,1-Dichloroethylene	NE	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NE	ND	ND	ND	ND
1,2,4-Trimethylbenzene	NE	81.6	72.2	68.8	61.4
1,2-Dibromoethane	NE	ND	ND	ND	ND
1,2-Dichlorobenzene	NE	ND	ND	ND	ND
1,2-Dichloroethane	NE	ND	ND	ND	ND
1,2-Dichloropropane	NE	ND	ND	ND	ND
1,2-Dichlorotetrafluoroethane	NE	23.8	14.6	5.94	12.2
1,3,5-Trimethylbenzene	NE	21.8	20.9	19.9	18.2
1,3-Butadiene	NE	ND	ND	ND	ND
1,3-Dichlorobenzene	NE	ND	ND	ND	ND
1,4-Dichlorobenzene	NE	ND	ND	ND	ND
1,4-Dioxane	NE	ND	ND	ND	ND
2,2,4-Trimethylpentane	NE	ND	ND	ND	ND
2-Butanone	NE	ND	ND	ND	ND
2-Hexanone	NE	ND	ND	ND	ND
3-Chloropropene	NE	ND	ND	ND	ND
4-Methyl-2-pentanone	NE	8.92	77.8	6.43	6.43
4-Ethyltoluene	NE	24.5	30.4	22	18.7
4-Isopropyltoluene	NE	2.03	1.76	1.81	1.59
Acetone	NE	598	902	605	698
Acrylonitrile	NE	ND	ND	ND	ND
Benzene	NE	33.8	33.5	48.2	49.5
Benzyl Chloride	NE	ND	ND	ND	ND
Bromodichloromethane	NE	ND	ND	ND	ND
Bromoform	NE	ND	ND	ND	ND
Bromomethane	NE	ND	ND	ND	ND
Carbon Disulfide	NE	5.76	11.7	9.06	13
Carbon Tetrachloride	NE	ND	ND	0.377	ND
Chlorobenzene	NE	ND	ND	ND	ND
Chloroethane	NE	ND	ND	ND	ND
Chloroform	NE	11.1	4.88	771	354
Chloromethane	NE	ND	ND	ND	ND
cis-1,2-Dichloroethylene	NE	ND	ND	ND	ND
cis-1,3-Dichloropropylene	NE	ND	ND	ND	ND
Cyclohexane	NE	8.94	10.6	14.1	14.2
Dichlorodifluoromethane	NE	13.3	6.28	6.87	9.64
Dibromochloromethane	NE	ND	ND	ND	ND
Ethyl acetate	NE	ND	ND	ND	ND
Ehtanol	NE	41.8	72.7	84.4	56.1
Ethylbenzene	NE	78.1	77.2	82	74.6
Isopropanol	NE	ND	ND	ND	ND
Isopropylbenzene	NE	5.01	5.06	1.02	4.72
Heptane	NE	51.6	62.7	78.6	80.7
Hexane	NE	72.2	72.2	111	116
Hexachlorobutadiene	NE	ND	ND	ND	ND
Methyl Ethyl Ketone	NE	14.9	53.6	ND	ND
Methylene Chloride	60	1.67	7.53	2.71	3.71
MTBE	NE	ND	ND	ND	ND
n-Butylbenzene	NE	5.65	4.06	3.62	2.69
m,p-Xylene	NE	242	243	260	230
o-Xylene	NE	82.9	80.7	83.3	73.8
p-Ethyltoluene	NE	ND	ND	ND	ND
Propylene	NE	ND	ND	ND	ND
sec-Butylbenzene	NE	1.1	ND	ND	ND
Styrene	NE	1.02	ND	ND	ND
Tetrachloroethylene	100	103	99.6	104	114
Tetrahydrofuran	NE	4.86	16.8	4.92	4.54
Toluene	NE	614	362	414	399
trans-1,2-Dichloroethylene	NE	ND	ND	ND	ND
trans-1,3-Dichloropropylene	NE	ND	ND	ND	ND
Trichloroethylene	5	4.24	0.376	1.88	1.40
Trichlorofluoromethane	NE	36	7.86	25.8	43.1
Vinyl Chloride	NE	ND	ND	ND	ND

Notes:

Guideline values based on the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006.

ND = Not Detected; NE = Not Established

Blue shade indicates detectable concentrations

Bold and yellow shade indicates exceedance of guideline value

ESI File: PB14017.50

Table 6: Calculation of BaP Equivalent Values

 Remedial Investigation Report #13HAZ129X
 491 E 165th Street and 1052 Washington Avenue, Bronx, NY

All values in µg/Kg (parts per billion, ppb)

Semi-Volatile Organic Compounds	Equivalent Factor	Sample Identification									
		SB-1 (0-2')	SB-2 (0-2')	SB-3 (0-2')	SB-4 (0-2')	SB-5 (0-2')	SB-6 (0-2')	SB-7 (0-2')	SB-8 (0-2')	GW-2 (screened interval: 13/14-18')	GW-3
		10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012	10/15/2012
Benzo(a)anthracene	0.1	42	73	260	610	90	140	150	120	0.004	0.059
Benzo(a)pyrene	1.0	430	730	2,400	6,300	820	1,300	1,500	1,100	ND	0.45
Benzo(b)fluoranthene	0.1	58	97	410	1,000	100	190	190	170	ND	0.064
Benzo(k)fluoranthene	0.01	ND	3.3	15	25	3.5	ND	7.1	6.1	ND	0.0023
Chrysene	0.01	4.7	8.4	30	70	8.9	ND	14	16	ND	0.0062
Dibenzo(a,h)anthracene	1.0	ND	ND	ND	900	ND	ND	ND	ND	ND	0.08
Indeno(1,2,3-cd)pyrene	0.1	30	48	95	310	50	ND	57	ND	ND	0.025

Notes:

Only samples with detectable concentrations of the above-referenced compounds are shown.

ND = Not Detected



Ecosystems Strategies, Inc.

APPENDIX 1

Phase I Environmental Site Assessment Report



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Report of
Phase I Environmental Site Assessment
491 East 165th Street & 1052 Washington Avenue
Bronx, NY 10456
Block 2370; Lot 6 & 52



Prepared for

Ms. Nancy Meyer
Housing Development
NYC Office of Mental Health
44 Holland Avenue, 7th Floor
Albany, NY 12229

August 24th, 2012

AEASinc Project 12-0135

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1 EXECUTIVE SUMMARY

American Environmental Assessment and Solutions, Inc. (AEASinc) has performed a Phase I Environmental Site Assessment (Phase I ESA) of the property located at 491 East 165th Street & 1052 Washington Avenue, Bronx, NY (the "Site" or "Subject Property"). The Phase I assessment was performed on behalf of the Client.

AEASinc's Phase I ESA of the Site followed the scope set forth by the American Society for Testing and Materials International (ASTM) in its Standard Practice for Environmental Site Assessments: Phase I ESA Site Assessment Process (E 1527-05). The purpose of the assessment was to characterize the environmental quality of the Subject Property through identification of Recognized Environmental Conditions (RECs). Any exceptions to, or deviations from the referenced standards are described in Section 2.3 of this report.

The Subject Property consists of two rectangular-shaped, vacant lots that adjoin forming a T-shaped lot combined, bordering East 165th Street and Washington Avenue. The first lot extends north-south and is enclosed by a chain-linked fence to the south along East 165th Street and by buildings to the east and west. The second is located to the north of the first lot and extends east-west. The second lot is enclosed by a chain-linked fence to the west along Washington Avenue and buildings to the east, north and south. Access to the Subject Property was via East 165th Street to the south and Washington Avenue to the west.

The total area of the Subject Property is approximately 10,319 square feet. The Tax Map number for the property is Block 2370 Lot 6 and 52. The property is zoned as MX-7; Mixed Use-7 (Morrisania, BX). The occupancy code with the New York City Department of Finance for the Subject Property is listed as G7; Unlicensed Parking Lot. The Little "E" Restriction for the Subject Property is listed as "HAZMAT" for lot 52 and "N/A" for Lot 6.

This assessment has revealed evidence of Recognized Environmental Conditions (RECs) in connection with the Site, as defined by ASTM E 1527-05. Based upon the information obtained during the Site inspection, review of environmental databases, historical information and contact with federal/state/local agencies the following RECs were identified.

On-Site Conditions:

- The presence of petroleum spills and staining on the Subject Property, (Section 5.0).
- The Little "E" Designation of the property, (Section 6.0, 80).

- Historical usage of the Subject Property for auto repair services and storage of vehicles, (Section 6.1, 7.1, 7.2).

Off-Site Conditions:

This assessment has not revealed evidence of recognized environmental conditions off-site that would impact the property.

1.1 ENVIRONMENTAL PROFESSIONAL DECLARATIONS

Ms. Antoinette Ollivierre Senior Geologist, gathered and compiled information contained in this report and performed the site and area reconnaissance.

Antoinette Ollivierre, CEC, CEI
Senior Geologist

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

This summary does not contain all the information presented in the full report. The report should be read in its entirety to obtain a more complete understanding of the information provided and to aid in any decisions made or actions taken based on this information.

The following sections provide the details and specific information pertaining to the various components of the Phase I Environmental Site Assessment.

2 INTRODUCTION

2.1 PURPOSE OF SERVICES

American Environmental Assessment & Solutions, Inc (AEASinc) has performed a Phase I Environmental Site Assessment (Phase I ESA) at the property located at 491 East 165th Street & 1052 Washington Avenue, Bronx, New York. The property will hereafter be referred to as the "Site" or the "Subject Property".

The purpose of the Phase I ESA is to characterize the environmental quality of the Subject Property through the determination of Recognized Environmental Conditions (RECs). As defined by the American Society of Testing and Materials (ASTM), a REC is, "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater or surface water at the property.

2.2 SCOPE AND RESOURCES

AEASinc performed a Phase I ESA of the Subject Property that generally conforms to the scope and limitations of the Practice. AEASinc has collected information through a number of sources including, but not limited to: a property and neighborhood inspection by trained environmental personnel, a review of historical and current information collected from various federal, state, county and municipal agencies and personnel interviews with Site representatives. Recommendations are offered where prudent. Firms contracted by AEASinc may have collected some information used in this report.

AEASinc did not perform any exploratory probing or discovery, perform tests, operate any specific equipment, or take measurements or samples to perform the Phase I ESA scope. The Phase I ESA was not a building code, safety, regulatory or environmental compliance inspection.

The observations and recommendations presented in this report are time dependent, and conditions will change. This report speaks only as of its date.

2.3 LIMITATIONS, EXCEPTIONS, DEVIATIONS AND DATA GAP

This report does not warrant against: (1) operations or conditions which were not in evidence from visual observations or historical information obtained; (2) conditions which could only be determined by physical sampling or other intrusive investigation techniques; or (3) locations other than the client provided addresses and/or legal parcel

description or information on off-site location (with possible impact on the Site) not published in available records.

The report is intended to be relied upon by the Client, its affiliates, successors and assigns, as well as its lenders. That contractual relationship included an exchange of information about the property that was unique and serves as the basis upon which this report was prepared. Because of the importance of these understandings, our assessment may not be sufficient for the intended purposes of another party.

Reliance or any use of this report by anyone other than those parties identified above, for which it was prepared is prohibited and therefore not foreseeable to AEASinc. Any unauthorized reliance on or use of this report, including any of the information or conclusions contained herein, will be at the third party's risk. No warranties or representations expressed or implied in this report are made to any such third party.

Third party reliance letters may be issued upon timely request and payment of the then-current fee for such letters. All third parties relying on our report, by such reliance, agree that such reliance is limited under the terms of AEASinc's contract with the Client.

The methodologies include reviewing information provided by other sources. AEASinc treats information obtained from the record reviews and interviews concerning the property as reliable and the ASTM protocol does not require AEASinc to independently verify the information. Therefore, AEASinc cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. No other warranties are implied or expressed.

This report is presumed to be valid for a period of 180 days from its completion or until the Client obtains specific information that may materially alter a finding, conclusion or opinion in this report or the Client is notified by AEASinc that it has obtained specific information that materially alter a finding, conclusion or opinion in this report.

Exceptions to the ASTM E 1527-05 Practice

The Phase I ESA conducted by AEASinc conforms to and in some instances exceeds the ASTM *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (E 1527-05) except for the following: no documentation was provided by the User regarding title records, valuation reduction, environmental liens or use limitations for the Site.

3 SITE DESCRIPTION

3.1 LOCATION AND LEGAL DESCRIPTION

Summary	
Project Name	Vacant Land
Property Address Property Address (Alternate)	491 East 165 th Street & 1052 Washington Avenue
City, County, State, ZIP Code	Bronx, Bronx County, NY 10456
Site Area (acres)	0.237
No. Buildings/Units/Stories	Vacant Land
Area (sf)	NA
Occupied Subgrade Spaces?	No
Year(s), First Developed for Current Use	Approximately since 1989 - 491 East 165 th Street became vacant land. Approximately since 2002 - 1052 Washington Avenue became vacant land

The Subject Property consists of two rectangular-shaped, vacant lots that adjoin forming a T-shaped lot bordering East 165th Street and Washington Avenue. The first lot extends north-south and is enclosed by a chain-linked fence to the south along East 165th Street and by buildings to the east and west. The second is located to the north of the first lot and extends east-west. The second lot is enclosed by a chain-linked fence to the west along Washington Avenue and buildings to the east, north and south. Access to the Subject Property was via East 165th Street to the south and Washington Avenue to the west.

The total area of the Subject Property is approximately 10,319 square feet. The Tax Map number for the property is Block 2370 Lot 6 and 52. The property is zoned as MX-7; Mixed Use-7 (Morrisania, BX). The occupancy code with the New York City Department of Finance for the Subject Property is listed as G7; Unlicensed Parking Lot. The Little "E" Restriction for the Subject Property is listed as "HAZMAT" for lot 52 and "N/A" for Lot 6.

A Site Location Map is attached to this report.

The neighborhood surrounding the Site contains a variety of land uses including residential, industrial and commercial. Current use(s) of surrounding property include a 1-story building (Church) and 2 /3 story mixed use buildings to the south, 2-story buildings to the north, a 6-story residential building to the east (former auto repair / parking lot and E-Designation site) and 1-story commercial building (Ambassador Fuel and Oil Company) to the west.

Detailed information pertaining to the Site reconnaissance is provided in section 5 of this report.

3.2 PHYSICAL SETTING

AEASinc reviewed United States Geological Survey (USGS) Topographic (Topo) Maps and other information regarding the physical setting of the site to assist with the interpretation of subsurface water movement near the property.

Summary	
Source Name	Year Published/Issued
USGS 7.5 Minute Topo Map	Central Park, NY Quadrangle 1995
FEMA Flood Map	New York City - 3604970083F, September 5 th , 2007
Notes: FEMA = Federal Emergency Management Agency.	

The subject property is located in the southern portion of the Bronx (Morrisania area), Bronx County. The elevation of the subject property is approximately 29 feet above sea level (USGS 7 1/2-Minute Central Park Quadrangle, 1967, Photorevised 1995).

The topography in the vicinity of the Subject Property is sloping towards the southwest. The ground surface is covered by asphalt, concrete and native soil in some areas.

The Bronx is located towards the north of Manhattan and sharing similar environmental setting. The region's most ancient rocks are the foundation of the Highlands region. Metamorphic and igneous rocks of Late Precambrian and Early Paleozoic age crop out in northeast-trending belts of rock forming the core of the Appalachian Mountains. The area is a rugged, hilly to mountainous terrain, bearing the characteristic scars of Pleistocene glaciation. The rocky outcrops visible on hillsides, and along stream banks and roadside exposures, consist mostly of gneiss, schist, and marble.

Site-specific groundwater flow has not been determined; however, groundwater flow directions are inferred based on surface topography, which typically reflects groundwater flow direction. The actual direction of groundwater flow may differ from that assumed and may be influenced by the presence, if any, of subsurface structures or large volume withdrawal wells in the area.

The depth to groundwater in the vicinity of the Subject Property is believed to be 15 - 25 feet below grade. Based on our interpretation of the physical setting sources and our experience, AEASinc infers that groundwater flow direction in the vicinity of the Subject Property is towards the southwest, in the direction of the Harlem River. The

Harlem River is located approximately 6,413 feet from the Subject Property.

Surface water runoff on the Site flows to the surrounding Streets that are connected to the City storm water sewer system.

3.3 CURRENT USE OF THE SUBJECT PROPERTY

Ms. Antoinette Ollivierre Senior Geologist gathered and compiled information for this Phase I Environmental Site Assessment, including performing the site and area reconnaissance on August 15th, 2012. Credentials and qualifications of persons responsible for preparation of this report are appended.

The Subject Property consists of two rectangular-shaped, vacant lots that adjoin forming a T-shaped lot bordering East 165th Street and Washington Avenue. The first lot extends north-south and is enclosed by a chain-linked fence to the south along East 165th Street and by buildings to the east and west. The second is located to the north of the first lot and extends east-west. The second lot is enclosed by a chain-linked fence to the west along Washington Avenue and buildings to the east, north and south. Access to the Subject Property was via East 165th Street to the south and Washington Avenue to the west.

3 The total area of the Subject Property is approximately 10,319 square feet. The Tax Map number for the property is Block 2370 Lot 6 and 52. The property is zoned as MX-7; Mixed Use-7 (Morrisania, BX). The occupancy code with the New York City Department of Finance for the Subject Property is listed as G7; Unlicensed Parking Lot. The Little "E" Restriction for the Subject Property is listed as "HAZMAT" for lot 52 and "N/A" for Lot 6.

Photographs of the Subject Property are attached as appendices to this report.

A summary of our interpretation of the current uses and conditions of the Subject property, adjoining and surrounding property based on historical records and observations is provided below.

3.4 CURRENT USAGE OF ADJOINING PROPERTIES

A summary of uses and conditions of adjoining properties that could be identified during the course of our reconnaissance and research of the subject property is tabulated below. Detailed information is discussed following the summary along with an opinion about the significance of the listing.

Summary		
Identified?		
Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Hazardous Substances
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Petroleum Products
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Aboveground or Underground Storage Tanks (ASTs/USTs)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Drums
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Suspect Containers
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Electrical or Mechanical Equip. Suspected to Contain PCBs
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Interior Stains or Corrosion
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Drains or Sumps
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Wastewater Discharges
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Septic or Sewage Tanks
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pits, Ponds or Lagoons
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pools of Liquid or Standing Water
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solid Waste Dumping/Landfills/Suspect Fill Material
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Stained Soil or Pavement
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Stressed Vegetation
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Drinking Water Wells
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Irrigation Wells
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Monitoring Wells
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Odors
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other Uses or Conditions of Concern

AEASinc did observe the above listed uses or conditions on the adjoining properties during the property reconnaissance.

ASTs/USTs

A fill and vent pipe were observed adjacent to the western exterior wall of the adjacent building northwest on Washington Avenue. No ASTs or USTs were identified in the database report for this adjacent property.

4 USER-PROVIDED INFORMATION

4.1 TITLE RECORDS

Title records were not provided to AEASinc for review for evidence of environmental liens or any activity and use limitation related to the environmental condition of the property and was not incorporation into this report. In addition, AEASinc was not requested to perform a title search for the Site.

4.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATION

In the conduct of this Phase I ESA, AEASinc found no information concerning the existence of any environmental liens or use restrictions for the Site. The database report of sites with environmental institutional engineering controls did indicate activity or use limitations within ½ mile radius of the Site. Four surrounding properties were identified in the Institutional Engineering Controls database. The sites were identified upgradient with institutional engineering controls such as vapor barriers to sub-slab depressurized system installed to address residual contamination.

This information is based on a registry of such sites maintained and released quarterly by the NYSDEC. Environmental lien information was not provided to AEASinc. A title company or title professional should be retained to check reasonably ascertainable recorded land title for environmental liens or activity and land use limitations currently legally recorded against the property

4.3 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

There is no information available concerning the valuation reduction of the Site based on associated environmental issues.

4.4 PREVIOUS ENVIRONMENTAL REPORTS

No previous environmental report(s) for the Subject Property was provided to AEASinc for review.

5 SITE RECONNAISSANCE

Ms. Nancy Meyer and Ms Colleen Bonnicklewis, Site contacts, arranged for AEASinc's access to the Subject Property to perform the site reconnaissance. AEASinc representative Antoinette Ollivierre met with Mr. Natale Soresi at the Site on Wednesday August 15th, 2012 to perform Site reconnaissance.

The ground reconnaissance usually consisted of observing the periphery of the property and viewing the site from accessible adjacent public access areas. Visual reconnaissance of adjoining properties was limited to areas and facilities that were readily observable from the subject property or from public access areas.

AEASinc systematically toured interior portions of the property to provide an overlapping field of view. The periphery of structures, where present on the property, was observed along with accessible interior common areas and maintenance/repair areas.

AEASinc took photographs from the perimeter of the Subject Property to document selected features observed. Photographs of selected features are attached to this report.

5.1 INTERIOR AND EXTERIOR OBSERVATIONS

4 The Subject Property consists of two rectangular-shaped, vacant lots that adjoin forming a T-shaped lot bordering East 165th Street and Washington Avenue. The first lot extends north-south and is enclosed by a chain-linked fence to the south along East 165th Street and by buildings to the east and west. The second is located to the north of the first lot and extends east-west. The second lot is enclosed by a chain-linked fence to the west along Washington Avenue and buildings to the east, north and south. Access to the Subject Property was via East 165th Street to the south and Washington Avenue to the west.

AEASinc's representative inspected the Subject Property to document current condition and use of the Site. All accessible areas of the Subject Property were inspected. The ground surface of all accessible areas of the vacant lots was inspected for any evidence of staining, spills or odor.

Lot 6

A pile of debris including wooden planks and crates were identified in the northeastern portion of the lot. Numerous black construction type garbage bags were identified in the vicinity of the debris. The content of the garbage bags are unknown. Overgrown vegetation was observed in the vicinity of the debris. AEASinc's representation could not inspect ground surface of this portion of the Site. A second pile of debris was

observed in the central portion of this lot. AEASinc's representative could not inspect the ground surface of this area also. Staining was observed on the ground surface in the central and western portion of the lot. The presence of petroleum staining on the ground surface may have impacted the environmental quality of the Subject Property and should be considered a REC.

Lot 53

A trailer was identified in the northwestern portion of the lot. The trailer was locked and access was not provided to AEASinc. Observation through the glass of the trailer revealed that the trailer is currently empty except for desks, chairs and remnants left of prior usage. Three 55-gallon drums were identified in the southern portion near the chain-linked fence. Two of drums were identified containing debris and garbage. The third drum was closed and its content unknown. No evidence of spills, staining or odor was identified in the vicinity of the drums.

The ground surface of both lots is covered by asphalt, concrete and soil.

A summary of uses and conditions is tabulated below. Detailed information is discussed following the summary along with an opinion about the significance of the listing.

Summary		
Identified?		
Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Hazardous Substances
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Petroleum Products
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Aboveground or Underground Storage Tanks (ASTs/USTs)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Drums
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Suspect Containers
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Electrical or Mechanical Equip. Suspected to Contain PCBs
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Interior Stains or Corrosion
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Drains or Sumps
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Wastewater Discharges
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Septic or Sewage Tanks
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pits, Ponds or Lagoons
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pools of Liquid or Standing Water
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Solid Waste Dumping/Landfills/Suspect Fill Material
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stained Soil or Pavement

Summary		
Identified?		
Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Stressed Vegetation
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Drinking Water Wells
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Irrigation Wells
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Monitoring Wells
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Odors
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other Uses or Conditions of Concern

AEASinc observed the above listed uses or conditions on the Subject Property during the Site reconnaissance.

Hazardous Substances

No evidence of hazardous substance was identified during the Site reconnaissance at the Subject Property. No evidence of historical usage or storage of hazardous substances was identified at the Subject Property.

Petroleum Products

No evidence of petroleum product was identified during the Site reconnaissance at the Subject Property.

ASTs/USTs

No ASTs or USTs were identified at the Subject Property during the Site reconnaissance. No evidence of former ASTs or USTs was identified at the Subject Property.

Drums

Three 55-gallon drums were identified in the southern portion near the chain-linked fence. Two of drums were identified containing debris and garbage. The third drum was closed and its content unknown. No evidence of spills, staining or odor was identified in the vicinity of the drums.

Suspect Containers Not Necessarily In Connection With Identified Uses

No suspect containers were identified during the Site reconnaissance at the Subject Property.

Electrical Or Mechanical Equipment Suspected To Contain PCBs

No evidence of PCB or PCB-containing, equipment was identified during the Site reconnaissance at the Subject Property.

Interior Stains Or Corrosion

No evidence of staining or corrosion was identified during the Site reconnaissance at the Subject Property.

Drains Or Sumps

No evidence of drains or sumps was identified during the Site reconnaissance at the Subject Property. No evidence of former floor drains was identified on the Subject Property. No evidence of subsurface drainage structures such as leaching pools, cesspools or dry wells was identified at the Subject Property. No evidence of former subsurface drainage structures such as leaching pools, cesspools or dry wells was identified at the Subject Property.

Wastewater Discharges

No evidence of wastewater discharge was identified on the Subject Property. The property is currently a vacant lot.

Septic or Sewage Tanks

No evidence of septic or sewage tanks. No evidence of former septic or sewage tanks was identified on the Subject Property.

Pits, Ponds, Or Lagoons

No evidence of any pits, ponds or lagoons was identified at the Subject Property.

Pools Of Liquid Or Standing Water

No evidence of pools of liquids or standing water was identified at the Subject Property.

Solid Waste Dumping, Landfills, Or Suspect Fill Material

A pile of debris including wooden planks and crates were identified in the northeastern portion of the lot. Numerous black construction type garbage bags were identified in the vicinity of the debris. The content of the garbage bags are unknown. Overgrown vegetation was observed in the vicinity of the debris. AEASinc's representation could

not inspect ground surface of this portion of the Site. A second pile of debris was observed in the central portion of this lot. AEASinc's representative could not inspect the ground surface of this area also.

No other evidence of solid waste dumping, landfills or suspect fill material was identified during the Site reconnaissance at the Subject Property.

Stained Soil Or Pavement

Staining was observed on the ground surface in the central and western portion of the lot. The presence of petroleum staining on the ground surface may have impacted the environmental quality of the Subject Property and should be considered a REC.

Stressed Vegetation

No areas of stressed vegetation were identified at the Subject Property.

Wells

No drinking water/production wells, irrigation wells, or monitoring wells were identified at the Subject Property. Testing of drinking water is beyond the scope of this Phase I ESA.

Odors

No evidence of odors was identified at the Subject Property.

Other Uses Or Conditions Of Concern

No evidence of other uses or concern except for the above listed concerns was identified at the Subject Property.

UTILITIES

Utility systems identified at the property are summarized below:

- The Subject Property was identified as a vacant lot. No utilities including gas, electric, sewage or water were identified at the Site.

6 ENVIRONMENTAL REGULATORY RECORDS REVIEW

6.1 FREEDOM OF INFORMATION REQUESTS

AEASinc submitted Freedom of Information Law (FOIL) requests to the agencies tabulated below. Response status is also tabulated.

Summary		
Response?		
Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	New York City Bureau of Fire Prevention (NYCBFP)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	New York State Department of Environmental Conservation (NYSDEC)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	New York City Department of Environmental Protection (NYCDEP)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	New York City Department of Buildings (NYCDOB)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	New York City Department of Planning
<input checked="" type="checkbox"/>	<input type="checkbox"/>	New York City Department of Finance

Note: Response status based on date of report.

New York City Bureau of Fire Prevention

A FOIL request was submitted to the New York City Bureau of Fire Prevention (NYCBFP). As of the date of this report, the NYCBFP has not responded to our initial search request or subsequent follow-up calls. Any information obtained will be provided as soon as it has been received and evaluated.

New York State Department of Environmental Conservation

A FOIL request was submitted to the New York State Department of Environmental Conservation (NYSDEC). FOIL request number R2-12-0941 was assigned to the request by NYSDEC on August 25th, 2012. No other information was provided by the NYSDEC. Any additional information obtained will be provided as soon as it has been received and evaluated.

New York City Department of Environmental Protection

A FOIL request was submitted to the New York City Department of Environmental Protection (NYCDEP). FOIL Log numbers 86122, 86123, 86124 and 86125 were assigned to the request by the NYCDEP on August 10th, 2012. As of the date of this report, no other information was provided by the NYCDEP. Any information obtained will be provided as soon as it has been received and evaluated.

New York City Department of Buildings (NYCDOB)

A FOIL request was submitted to the NYCDOB. The Tax Map number listed for the Subject Property is Block 2370; Lot 6 and 52.

Lot 6 – 1052 Washington Avenue:

No complaints or violations were identified in the history of lot 6 in the NYCDOB records. The NYCDOB records listed information associated with a new building dated 1888. A demolition permit was issued to the Site in 1982. Alteration to the building that previously occupied the Site occurred in 1899 and 1915. A Certificate of Occupancy was issued to the Site in 1937.

Lot 52 – 491 East 165th Street:

Three complaints were identified in the history of lot 52 in the NYCDOB records. Information listed in the complaints included usage of the Site as a parking lot, storage of vehicles and auto repair. All three complaints are closed however the utilization of the Subject Property for auto repair may have impacted upon the environmental quality of the Site and should be considered an environmental concern. Three violations were identified for lot 52 issued in 1996, 2002 and 2008. The violations are listed as currently open and are associated with illegal usage of the Site as a parking lot and as dead storage for vehicles.

The NYCDOB records indicated that two jobs were filed; one in 2010 and the other in 2011 associated with the construction of a new building. A demolition permit was issued to the Site in 1986. Information in NYCDOB indicated that plumbing repair occurred in 1954 and 1963 at the building that previously occupied the Site

No additional information was provided by the NYCDOB records for the Subject Property.

New York City Department of Planning

A FOIL request was submitted to the New York City Department of Planning and Zoning Department. The New York City Zoning Department indicates that the Subject Property is zoned as MX-7; Mixed Usage District, (commercial /manufacturing/residential). The Little "E" Restriction for the Subject Property is listed as "HAZMAT" for lot 52 and as "N/A" for lot 6. The occupancy code with the New York City Department of Finance is listed as G-; Garage / Gas Station.

The Subject Property was part of the Morrisania rezoning dated 3/3/2003. The E-Designation for Hazardous Materials (E-118) was placed on the Site by the New York City Department of City Planning (NYCDCP). As such, redevelopment-related activities on the Site are subject to review and approval by the New York City Office of Environmental Remediation (NYCOER).

7 SITE HISTORY

AEASinc used USGS Topo maps and retained EDR to provide information about the history of the site and its surroundings. AEASinc also referenced other historical sources.

Summary			
Source Type	Years Reviewed	Source	Note
USGS Topo Maps	See Section 3.1.2	USGS / EDR	
Fire Insurance Maps	1891, 1903, 1909, 1951, 1969, 1970, 1977, 1978, 1979, 1980, 1981, 1984, 1989, 1991, 1992, 1993, 1995, 1996, 1998, 2001, 2002, 2003, 2004, 2005, 2006, 2007	EDR / Sanborn	
City Directories	Beginning at 1927 at 5-yr interval through 2005	EDR	
NA = None Available (Not Readily Ascertainable). NR = Not Reviewed. NPR = Not Practically Reviewable. Topographic Maps reviewed are previously listed.			

The City Directory Abstract and Fire Insurance Maps are attached to this report.

7.1 FIRE INSURANCE MAPS

Our interpretation of the past uses of the property is tabulated below.

Summary		
Year(s)	Address	Interpreted Property Use
1052 Washington Avenue Bronx, NY	1891, 1903, 1909, 1951, 1969, 1970, 1977, 1978, 1979, 1980, 1981, 1984, 1989, 1991, 1992, 1993, 1995, 1996, 1998, 2001	3-story building with basement occupying the western portion of the lot. A 1-story building noted as auto was identified in the eastern portion of the lot. Utilization was noted as store/dwelling.
	2002, 2003, 2004, 2005, 2006, 2007	1-story building noted as auto located in the southeastern portion of the lot.
491 East 165 th Street Bronx, NY	1891, 1903, 1909	3-story building with a 1-story extension and a 1-story shed. Utilization of the Site was noted as dwelling.
	1951, 1969, 1970, 1977, 1978, 1979, 1980, 1981, 1984	6-story building. Utilization noted as dwelling.
	1989, 1991, 1992, 1993, 1995, 1996, 1998, 2001, 2002, 2003, 2004, 2005, 2006, 2007	Vacant land
Year Current Use Began		Approximately since 1989 -491 East 165 th Street became vacant land. Approximately since 2002 - 1052 Washington Avenue became vacant land

Fire Insurance Maps were obtained and evaluated in order to establish the history of the Subject Property.

Fire Insurance Maps dated 1891, indicated that the Subject property was first developed sometime prior to 1891 with 3-story buildings. Utilization of the 3-story building that occupied lot 6 was noted as store / dwelling. Utilization of the 3-story building that occupied lot 52 was noted as only dwelling. Subsequent Fire Insurance maps up to 2001 indicated that the 3-story building occupied lot 6 and with the same usage of the lot. Fire Insurance map dated 2002 indicated that the lot was vacant except for a 1-story building located in the southeastern portion noted as auto. No changes to lot 6 were noted on any of the subsequent maps.

Fire Insurance maps dated 1891 through 1909 indicated that lot 52 was occupied by a 3-story building with utilization noted as dwelling. Fire Insurance map dated 1951 indicated that the 3 story building was replaced by a 6-story building. Utilization of the 6-story building was noted as dwelling. No changes to the building or lot 52 were noted on the subsequent maps through 1984. Fire Insurance map dated 1989 indicated that lot 52 was vacant land. Subsequent maps through 2007 did not reveal any changes to lot 52. A demolition permit was issued by the NYCDOB to the lot in 1986 indicating that lot 52 may have been vacant land since 1986.

No indication of tanks was noted on the Fire Insurance Maps for the Subject Property.

Fire Insurance Maps indicated that the surrounding properties were mainly commercial to the north (lacquer spraying, electrical, etc); 1-2 story buildings with various usage including manufacturing, warehouse and dwelling; a 1 story building and usage as auto repair / parking lot from 1909 through 2007; and 1 - 3 story buildings with various usage during its history from store, dwelling, manufacturing, auto repair to fuel and oil company to the west. Gasoline tanks were identified on the Fire Insurance maps for this property. The historical usage of the eastern adjacent property and surrounding properties may be an environmental concern.

7.2 CITY DIRECTORY ABSTRACT REVIEW

To further assess the past usage of the Subject Property, the City Directory Abstract obtained for the Site and surrounding area was reviewed by AEASinc.

The City Directory report lists occupants by address and year. The City Directory information is presented and referenced at 5-year intervals from 1927 through 2005. City Directory report obtained indicated that the Subject Property has been listed in the directory since 1927. Surrounding properties were also identified in the City Directory.

The following provides a list of the various occupants at the Subject Property from 1927 through 2005:

Address	Year(s)	Property Usage (s)
1052 Washington Avenue Bronx, NY	1949, 1956, 1961, 1965, 1983, 1993, 2000	Address not listed
	1927, 1940	Kohler Ph Jr electl contr
	1931	Boeller Xavier Stinner Fredk A
	1971	Rivers Leroy Brown Essie Mrs
	1976	LCC Club
	2005	1054 NCL
491 East 165 th Street Bronx, NY	1949, 1956, 1961, 1965, 1971, 1976, 1983, 1993	Address not listed
	1927	Ball Saml r Brown Emil r Chapman Louis M r Cohen Chas r Hahn Jos r Halperin Nathan carpntr Machefsky N r Warm Saml r Weiss Herman r Zauder Isaac r
	1931	Brady Bernard Burke Edw Derfler David Rosenberg Mor Rubin Abr Spanos George Tamponi Nicholas Tenser John J Wain Saml
	1940	Kane Betrice A Mrs Kefner Wm Segety Irene
	2000	<i>Baez Parking is</i> K G & Dons Express Shipping
2005	<i>Baez Parking</i>	

A review of the City Directory identified occupants of environmental concerns at the Subject Property. The usage of the Subject Property as parking lot may have impacted the Site. Information obtained from the violations listed in the NYCDOB indicated that the Site have been used for auto repair, parking and storage of vehicles. The historical

usage of the Subject Property may have impacted the Site and should be considered a REC.

The city directory and Fire Insurance Maps are attached to this report.

8 NEIGHBORHOOD HAZARDOUS WASTE DATABASE

AEASinc retained outside sources to provide environmental database information attributed to the site and its surroundings. The search was conducted on databases as specified in ASTM E 1527-05. Due to the intense urban development surrounding the subject property, the Approximate Minimum Search Distance (AMSD) was limited to a ¼ mile.

Unmappable (orphan) sites listed with insufficient address or geocoding information to map were evaluated for potential location within the AMSD. AEASinc used information provided about the city, county and Zip Code attributed to these sites to determine if they are located in the vicinity of the subject property.

The distribution of listed sites with respect to the property is tabulated and mapped in the database report, which is appended. AEASinc did not image the database results table into the body of this report to reduce the chance for transcription errors. The reader is referred to this table which can be found near the front of the database report.

The database search reported unmappable (orphan) listed sites. AEASinc reviewed the information provided about these sites, and those that could be field-verified within the AMSD are discussed in the appropriate section below.

8.1 DATABASE FINDINGS

SUBJECT PROPERTY

A review and evaluation of the federal and state databases identified the Subject Property listed in the E-Designation database. The Subject property was part of the Morrisania Rezoning dated 3/3/2003. Environmental Designation for "Hazmat" was then placed on the Site. Due to the environmental designation on the Subject Property, environmental activities are required before any redevelopment of the Site and subject to review and approval by the New York City Office of Environmental Remediation (NYCOER).

ADJOINING AND SURROUNDING PROPERTY

Further review and evaluation of the federal and state databases identified the northern and southern adjacent properties listed in the database report.

Eastern adjacent property:

The eastern adjacent property was identified in the E-Designation database. However environmental documents received for the eastern adjacent property reveal that environmental activities were performed to comply with the E-Designation

requirements and a "Notice to Proceed" was issued to the property sometime in 2007. A 6-story brick residential building currently occupies the eastern adjacent property.

AEASinc considered most of the listed sites unlikely to impact the Subject Property, based upon factors including (but not limited to):

- The nature of the listing
- The use of the site
- When the site was listed and its current listed status
- The development density of the setting
- The distance between the listed and Subject Property as related to the distance that releases are likely to migrate based on local surface and subsurface drainage conditions
- The presence of intervening drainage divides
- The inferred groundwater movement

AEASinc's discussion of the remaining sites is as follows:

RCRA - LQG (LARGE QUANTITY GENERATOR)

The EPA's RCRA Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Generators database is a compilation by the EPA of reporting facilities that generate hazardous waste. One surrounding property was identified in the RCRA large quantity generator database within ¼ mile radius of the subject property. The surrounding RCRA-LQG site was identified upgradient, 498 feet southeast from the Subject Property. No violations were identified for the upgradient RCRA-LQG site.

Based upon the information identified in the database AEASinc does not believe that the surrounding RCRA large quantity generator site would impact the environmental quality of the Subject Property.

RCRA -CESQG

RCRA Conditionally Exempt Small Quantity Generators (CESQG) sites generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Two RCRA - CESQG sites were identified in the RCRA - CESQG database within ¼ mile radius of the Subject Property. Both RCRA - CESQG sites were identified upgradient to the Subject Property. No violations were listed in the database report for the upgradient RCRA - CESQ sites.

RCRA -NONGEN

RCRA - NONGEN sites do not presently generate hazardous waste unlike the RCRA small and large quantity generator sites as listed above. The RCRA - NONGEN

database identified seventeen RCRA - NONGEN surrounding sites within a ¼ mile radius of the Subject Property. All seventeen RCRA - NONGEN surrounding sites listed were identified up-gradient to the Subject Property. Two of the surrounding RCRA - NONGEN sites were identified with violations. The information for the surrounding sites identified with violations is listed below.

1)

Facility Name Address	Continental Baking Co 3362 Park Avenue Bronx, NY	Map ID No. Distance (mile) Direction	P68 1/8 - ¼ (716 feet) northwest of subject property
<p>This surrounding property was identified in the RCRA - NonGen database report up-gradient to the Subject Property. One written violation was issued to this property during compliance evaluation inspections on 4/30/1993. The violation identified was in reference to Generator -General. Compliance of the violation was achieved on 10/19/1993. The database report indicated that this surrounding property is also listed in the FINDS and Manifest database.</p> <p>Based upon the information identified in the databases, AEASinc does not believe that this site would impact the environmental quality of the subject property.</p>			

2)

Facility Name Address	Parkline Corporation 1075 Webster Avenue Bronx, NY	Map ID No. Distance (mile) Direction	X101 <1/8 - ¼ (1028 feet) northwest of subject property
<p>This surrounding property was identified in the RCRA - NonGen database report up-gradient to the Subject Property. One violation was issued to this property during compliance evaluation inspection on 2/23/1987. The violation identified was in reference to Generator- General. Compliance was met on 9/11/1987. The database report indicated that this surrounding property is also listed in the FINDS database.</p> <p>Based upon the information identified in the databases, AEASinc does not believe that this site would impact the environmental quality of the subject property.</p>			

AEASinc believes that none of the remaining surrounding RCRA - NONGEN sites identified in the database listings should impact the environmental quality of the Subject Property.

SHWS

The State Hazardous Waste Sites records typically are the States' equivalent to CERCLIS. A review of the SHWS database identified one surrounding SHWS property within a 1-mile radius of the Subject Property. The SHWS site listed in the SHWS database report was identified as a former drycleaner located up-gradient 3,694 feet northwest from the Subject Property. Environmental activities performed at the site identified Perchloroethylene (PCE) in the soil to a depth of 15 feet below grade. A

vapor extraction system was installed at the site in 1998 and shut down in 2000. Indoor air and soil vapor intrusion sampling were performed at the property. No further action letters were then issued by the NYSDEC and NYCDOH based upon the indoor air and soil vapor sampling results.

Based upon the information in the database report and the proximity, AEASinc believes that the surrounding SHWS site identified should not impact the environmental quality of the Subject Property.

VAPOR REOPENED

"Vapor Intrusion" refers to the process by which volatile chemicals move from a subsurface source into the indoor air of overlying or adjacent buildings. The subsurface source can either be contaminated groundwater or contaminated soil which release vapors in to the pore spaces in the soil. Improvements in analytical techniques and knowledge gained from site investigations in New York and other states have led to an increased awareness of soil vapor intrusion pathway. Based on this additional information, New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at these sites have the potential for exposures related to soil vapor intrusion. A review of the Vapor Reopened database identified one surrounding property within a 1-mile radius of the Subject Property. The Vapor Reopened site listed in the Vapor Reopened database was identified as the site listed in the SHWS database which is discussed above.

Based upon the information in the database report and the proximity, AEASinc believes that the surrounding SHWS site identified should not impact the environmental quality of the Subject Property.

SWF/LF

The Solid Waste Facilities / Landfill Sites (SWF / LF) records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. A review of the SWF /LF database identified one surrounding SWF/LF property within a ½ mile radius of the Subject Property. The surrounding SWF/LF site was identified as Last Chance Auto Sales Corp located upgradient, 773 feet west from the Subject Property. The property is listed as an inactive vehicle dismantling site. No violations were identified for this surrounding SWF/LF site. The property was also identified in the AST database.

Based upon the information in the database report, AEASinc believes that the surrounding SWF/LF site identified should not impact the environmental quality of the Subject Property.

LTANKS

The Leaking Tanks (LTANKS) records contain an inventory of reported leaking storage tank incidents reported from April 1, 1986 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. Forty-seven surrounding properties were identified in the LTanks database and forty-six surrounding properties were identified in the Historical Leaking Tanks database within a ½ mile radius of the subject property. Forty-six of the surrounding LTanks sites were identified upgradient to the Subject Property. Four of the upgradient surrounding LTank sites were identified with open NYSDEC spill numbers.

The following are the details for the upgradient LTanks sites with open NYSDEC spill numbers:

1)

Facility Name Address	Claremont Houses 1100 Teller Avenue Bronx, NY	Map ID No. Distance (mile) Direction	158 ¼ - ½ (1,529 feet) northwest of subject property
A review of the LTanks database identified this surrounding property upgradient with an open NYSDEC spill number. Further review of the details in the database indicated that a tank test failure occurred at this site on 7/29/1998. The tank failure was detected via a tightness test of the 10k gallon tank; the NYSDEC spill numbers 9805334 was assigned to the incident. Information listed in the database stated that the tank should be isolated and retested. No additional information was identified for this site.			

2)

Facility Name Address	364 East 161 st Street Bronx, NY	Map ID No. Distance (mile) Direction	AO173 ¼ - ½ (1,829 feet) southwest of subject property
A review of the LTanks database identified this surrounding property upgradient with an open NYSDEC spill number. Further review of the details in the database indicated that a tank failure occurred on 5/10/1988. The tank failure was detected via a tightness test. The NYSDEC spill numbers 8801261 was issued to the incident. Information listed in the database identified the usage of this property as a gasoline station. Additional information in the database stated that NYSDEC spill number 9211552 was consolidated with spill number 8801261. This site was identified in the Historical LTanks, NYS Spills and Historical NYS Spills database. No additional information was identified for this site.			

3)

Facility Name Address	St. Angela Merici R.C. Church 917 Morris Avenue Bronx, NY	Map ID No. Distance (mile) Direction	193 ¼ - ½ (2,423 feet) West of subject property
A review of the LTanks database identified this surrounding property upgradient with an open			

Facility Name Address	St. Angela Merici R.C. Church 917 Morris Avenue Bronx, NY	Map ID No. Distance (mile) Direction	193 ¼ - ½ (2,423 feet) West of subject property
NYSDEC spill number. Further review of the details in the database indicated that a tank failure occurred at this site on 5/9/2008. The tank failure was detected via a tightness test performed on a 1500-gallon tank. The NYSDEC spill number 0801695 was issued to the property. Additional information from the database listings indicated that the tank was empty. No additional information was identified for this site.			

4)

Facility Name Address	Morrisania Air Rights 3145 Park Avenue Bronx, NY	Map ID No. Distance (mile) Direction	194 ¼ - ½ (2,425 feet) southwest of subject property
A review of the LTanks database identified this surrounding property upgradient with an open NYSDEC spill number. Further review of the details in the database indicated that a tank failure occurred at this site on 1/13/1995. The tank failure was detected via a tightness test. The NYSDEC spill number 9413679 was assigned to the incident. Information in the database revealed that a work plan was prepared and submitted to the NYSDEC for approval on 3/3/11. No additional information was identified for this site.			

Based upon the information in the database none of the other sites listed in the LTanks database should impact upon the environmental quality of the Subject Property. The sites listed in the Historical LTanks database are a duplication of the sites listed in the LTanks database.

PBS

The NYSDEC's Petroleum Bulk Storage (PBS) program contains information on registered USTs and ASTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). A review of the PBS database identified twenty-two surrounding sites in the UST database, sixteen surrounding sites in the Historical UST database and fifty-two surrounding sites in the AST database within ½ mile radius of the Subject Property.

AEASinc do not believe that the surrounding PBS sites would impact upon the environmental quality of the Subject Property at this time.

STATE BROWNFIELD SITES

A review of the Brownfield database identified six Brownfield surrounding sites, up-gradient within a ½ mile radius of the Subject Property. The surrounding properties identified in the State Brownfield Sites database are also listed in the Institutional Engineering Control database.

NY SPILLS

The New York Department of Environmental Control collects data on spills that is required by one or more of the following: Article 12 of the Navigational Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1st, 1986, as well as spills occurring since this date. Eight surrounding properties were identified in the NY Spills database and three surrounding properties were identified in the Historical NY Spills database within ½ mile radius of the Subject Property. All eight NY Spills sites listed in the database were identified up-gradient to the Subject Property. One of the up-gradient NY Spills sites was identified with an open spill number. The surround property with the open NYSDEC spill number was identified as 3295 - 3303 3rd Avenue, a former machine shop. Environmental activities performed at this site to satisfy the E-Designation requirements identified Tetrachloroethylene (PCE) was identified in the groundwater. Information in the database listed some of the NYSDEC remedial requirements including the installation of a vapor barrier to address the contaminants. No additional information was provided. The current status of the NYSDEC Spill number was listed as not closed.

9 INTERVIEWS

9.1 INTERVIEW PARTIES

AEASinc made reasonable attempts to interview selected persons having knowledge of the uses and conditions of the site, past and present. A list of the persons that AEASinc interviewed and attempted to interview, along with our interpretations is presented in Section 8.2.

Summary		
Name	Affiliation	Role
Ms. Nancy Meyer	491 East 165 th Street & 1052 Washington Avenue, Bronx, NY	Site Contact
Ms. Colleen Bonnicklewis	491 East 165 th Street & 1052 Washington Avenue, Bronx, NY	Site Contact
Mr. Natale Soresi	491 East 165 th Street & 1052 Washington Avenue, Bronx, NY	Owner

Ms. Nancy Meyer and Ms Colleen Bonnicklewis, Site contacts, arranged for AEASinc's access to the Subject Property to perform the site reconnaissance. AEASinc representative Antoinette Ollivierre met with Mr. Natale Soresi at the Site on Wednesday August 15th, 2012 to perform Site reconnaissance. Mr. Natale stated that he has been the owner of the Subject Property for the last 1 ½ years. No additional information or information of environmental concern was provided by Mr. Natale.

No additional environmental information or environmental documents was provided for the Subject Property for review.

9.2 INTERVIEW FINDINGS

AEASinc did not identified evidence of RECs in the information obtained from the interviews.

10 OTHER ENVIRONMENTAL ISSUES

Assessment of the property in regard to the presence of asbestos-containing materials, lead-based paint, mold and lead in drinking water and radon are not included in the scope of work of Phase I ESAs and was not performed by AEASinc.

However information for Radon was made available in the database report. Review of this information identified the Subject Property as in Zone 3 where predicted radon level is below 2 pCi/L according to the EPA Map of Radon Zones. The EPA has prepared a map dividing the country into three Radon Zones; Zone 1 for those areas with the average predicted indoor radon concentration in residential dwellings exceeding the EPA Action Limit of 4 (picocuries per Liter of air pCi/L); Zone 2 for those areas where the average predicted radon level is between 2 and 4 pCi/L; and Zone 3 for those areas where the average predicted radon level is below 2 pCi/L.

Federal area radon information for Bronx County based upon a survey of 31 tested sites indicated that the average basement indoor radon air concentration is 1.110 pCi/L and 0.670 pCi/L for living area.

Radon is an odorless, invisible gas that occurs naturally in soils. Natural radon levels vary and are closely related to geologic formations. It cannot be detected without specialized equipment. Radon may enter building through basement sumps or other openings.

Radon testing would be necessary to determine the actual radon levels on the Subject Property. Radon testing was not performed as part of the Phase I ESA for the Site.

The information sources that AEASinc used, including published material, material obtained from commercial sources, from other sources, or provided to us through questionnaires is cited as that information presented in the report. Some of this information or excerpts thereof are also appended.

11 CONCLUSIONS

American Environmental Assessment & Solutions, Inc (AEASinc) has performed a Phase I ESA of the property located at 491 East 491 Street & 1052 Washington Avenue, Bronx, NY in conformance with the scope and limitations of ASTM Practice E 1527-05. Based upon the findings of the Phase I ESA, Recognized Environmental Conditions have been identified in connection with the Site.

On-Site Conditions:

- The presence of petroleum spills and staining on the Subject Property, (Section 5.0).
- The Little "E" Designation of the property, (Section 6.0, 80).
- Historical usage of the Subject Property for auto repair services and storage of vehicles, (Section 6.1, 7.1, 7.2).

Other than the item listed above, no other Recognized Environmental Concerns were identified in connection with the Subject Property.

12 RECOMMENDATIONS

Based upon the information provided for and contained in this Phase I ESA, AEASinc recommends the following:

On-Site Conditions:

- Due to the E-Designation for "Hazmat" placed on the Subject Property redevelopment-related activities on the Site are subject to review and approval by the NYCOER. The NYCOER requires that a Phase I ESA along with a Phase II ESA Work Plan (WP) be prepared and submitted for review to address the E-designation prior to any related redevelopment activities. A Phase II WP should be prepared and submitted to the NYCOER along with this Phase I ESA for review and approval.

The environmental activities required by the NYCOER will also address any impacts from historical usage of the Subject Property. Even though lot 6 does not have an E-Designation, however due to the historical usage of the Site and evidence of spills and staining the subsurface investigation scope of work should be performed to include this portion of the Site.

13 CREDENTIALS

In accordance with ASTM E 1527-05, the credentials of those personnel directly involved with the production of the Phase I ESA are provided with this report.

14 REFERENCES

The information sources that AEASinc used, including published material, material obtained from commercial sources, from other sources, or provided to us through questionnaires is cited as that information is presented in the report. Some of this information or excerpts thereof are listed below:

1. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM E 1527-05, American Society for Testing and Materials, West Conshohocken, PA.
2. Principals of Groundwater Engineering, William C. Walton, Lewis Publishers, Inc., 1991.
3. Soil Survey of New York County, New York, Soil Conservation Service, United States Department of Agriculture in cooperation with Cornell University Agricultural Experiment Station, February 1987.
4. The Long Island Ground Water Pollution Study, New York State Department of Environmental Conservation, 1972.
5. *Geochemical traverse across Cameron's Line, Boro Hall Park, Bronx, New York*, Cadmus, D., Hodgson, R., Gatto, L.M., and Puffer, J.H., Geology Department, Rutgers University, Newark, NJ.
6. *Drainage History of the New York City Region*, Sanders, John E., Geology Department, Hofstra University.
7. *EDR Environmental Data Resources*, - Sanborn Fire Insurance Maps, Midford, Connecticut
8. *EDR Environmental Data Resources*, - City Directory Abstract, Midford Connecticut
9. *EDR Environmental Data Resources*, - Radius Map, Midford, Connecticut
10. New York City Department of City Planning, Zoning Handbook, dated January 2006.
11. Federal Emergency Management Agency, "Flood Insurance Rate Map, Panel No. 360497 0083F", effective date September 5th, 2007.
12. U.S. Geological Survey 7.5 Minute Series Topographical Map, Central Park, NY, dated 1967, Photorevised 1995.
13. New York City Department of Buildings, Building Information System.
14. New York City Department of Finance, Office of the City Registry.



APPENDIX 2

Phase II Subsurface Investigation Report

Phase II Subsurface Investigation

For

491 East 165th Street & 1052 Washington Avenue
Bronx, NY 10456

Block 2370; Lot(s) 6 & 52

OER Project Number: 13HAZ129X

E-Designation: E-118

CEQR Number: 03DCP046X



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November 1ST 2012

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APPENDICES

- Photographs
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LIST OF ACRONYMS

Acronym	Definition
AST	Aboveground Storage Tank
CAMP	Community Air Monitoring Plan
C&D	Construction & Demolition
CEQR	City Environmental Quality Review
CFR	Code of Federal Regulations
CHASP	Construction Health and Safety Plan
CO	Certificate of Occupancy
CPC	City Planning Commission
DSNY	Department of Sanitation
"E"	E-Designation
EAS	Environmental Assessment Statement
EIS	Environmental Impact Statement
ESA	Environmental Site Assessment
EC/IC	Engineering Control and Institutional Control
ELAP	Environmental Laboratory Accreditation Program
FDNY	New York City Fire Department
GPR	Ground Penetrating Radar
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations Emergency Response
IDW	Investigation Derived Waste
Notice - NNO	Notice of No Objection
Notice - NTP	Notice To Proceed
Notice - NOS	Notice Of Satisfaction
Notice - FNOS	Final Notice of Satisfaction
NYC BSA	New York City Board of Standards and Appeals
NYC DCP	New York City Department of City Planning
NYC DEP	New York City Department of Environmental Protection
NYC DOB	New York City Department of Buildings
NYC DOF	New York City Department of Finance
NYC HPD	New York City Housing Preservation and Development
NYCRR	New York Codes Rules and Regulations
NYC OER	New York City Office of Environmental Remediation

NYS DEC	New York State Department of Environmental Conservation
NYS DEC DER	New York State Department of Environmental Conservation Division of Environmental Remediation
NYS DEC PBS	New York State Department of Environmental Conservation Petroleum Bulk Storage
NYS DOH	New York State Department of Health
NYS DOT	New York State Department of Transportation
OSHA	United States Occupational Health and Safety Administration
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PE	Professional Engineer
PID	Photo Ionization Detector
PM	Particulate Matter
QEP	Qualified Environmental Professional
RA	Register Architect
RAP	Remedial Action Plan
RCA	Recycled Concrete Aggregate
RCR	Remedial Closure Report
RD	Restrictive Declaration
RI	Remedial Investigation
SCOs	Soil Cleanup Objectives
SCG	Standards, Criteria and Guidance
SMP	Site Management Plan
SPDES	State Pollutant Discharge Elimination System
SSDS	Sub-Slab Depressurization System
SVOCs	Semi-Volatile Organic Compounds
USCS	Unified Soil Classification System
USGS	United States Geological Survey
UST	Underground Storage Tank
TAL	Target Analyte List
TCL	Target Compound List
TCO	Temporary Certificate of Occupancy
VB	Vapor Barrier
VOCs	Volatile Organic Compounds

1.0 EXECUTIVE SUMMARY

American Environmental Assessment and Solutions, Inc. (AEASinc) has performed Phase II Subsurface Investigation activities at the property located at 491 East 165th Street & 1052 Washington Avenue, Bronx, NY (the "Site" or "Subject Property"). The purpose of the Phase II Subsurface Investigation was to characterize the subsurface soil and groundwater quality to comply with the E-Designation requirements set forth by NYC Planning for the Subject Property and for Site redevelopment. The Phase II Subsurface Investigation was performed in general accordance with the scope and limitations of the American Society for Testing and Materials (ASTM) Standards E 1903-97; the NYSDEC Remedial Program for Soil Cleanup, Subpart 375-6; and the contract between AEASinc and the client.

The Subject Property consists of two rectangular-shaped, vacant lots that adjoin forming a T-shaped lot bordering East 165th Street and Washington Avenue. The first lot extends north-south and is enclosed by a chain-linked fence to the south along East 165th Street and by buildings to the east and west. The second lot is located to the north of the first lot and extends east-west. The second lot is enclosed by a chain-linked fence to the west along Washington Avenue and buildings to the east, north (partially) and south. Access to the Subject Property was via East 165th Street to the south and Washington Avenue to the west.

The total area of the Subject Property is approximately 10,319 square feet. The Tax Map number for the property is Block 2370 Lot 6 and 52. The property is zoned as MX-7; Mixed Use-7 (Morrisania, BX). The occupancy code with the New York City Department of Finance for the Subject Property is listed as G7; Unlicensed Parking Lot. The Little "E" Restriction for the Subject Property is listed as "HAZMAT" for lot 52 and "N/A" for Lot 6. Lot 52 of the Subject Property was part of the Morrisania rezoning dated 3/3/2003. The E-Designation for Hazardous Materials (E-118) was placed on the Site by the New York City Department of City Planning (NYCDCP) under CEQR # 03DCP046X.

Field activities consisted of a Ground penetrating Radar (GPR) survey and the installation and sampling of eight soil borings, three groundwater probes and four soil vapor probes

All samples were transmitted to a New York State certified (Elap # 11301) laboratory and analyzed for Volatile Organic Compounds (VOCs) in accordance with United States Environmental Protection Agency (EPA) Method 8260, Semi-Volatile Organic Compounds (SVOCs) via EPA Method 8270, Pesticides and Poly Chlorinated Byphenyl

(PCBs) via EPA Method 8081 and 8081, and Target Analyte List (TAL) metals. The soil vapor samples were analyzed for VOCs by USEPA Method TO-15

All field activities were performed on October 15th, 2012. The results of the investigation are contained in this report.

Ground Penetrating Radar (GPR) Survey:

Findings from the GPR survey did not identified any significant anomalies consistent with the presence of a tank(s) or containers such as drums in the subsurface.

Soil Quality:

Surface Soil, 0 - 2 feet below grade (bg):

VOCs; no VOCs were detected in any of the surface soil samples SB-1 through SB-8.

SVOCs; *SVOCs were identified in six soil samples, SB-3 through SB-8 at levels above their respective Unrestricted and Restricted Use Residential SCOs. The SVOCs identified are usually associated with "fill Material".*

Pesticides / Polychlorinated Biphenyls (PCBs); no pesticides or PCBs were identified in the surface soil exceeding its respective Unrestricted SCOs.

Target Analyte List (TAL) Metals; *TAL metals were identified in six of the surface soil samples, SB-1 through SB-5 and SB-7 exceeding their respective Unrestricted and Restricted Use Residential SCOs.*

Sub-Surface Soil, 17 - 19 feet bg & 15-16 feet bg in SB-1:

VOCs; no VOCs were detected in any of the sub-surface soil samples obtained from SB-1 through SB-8 exceeding its respective SCOs.

SVOCs; no SVOCs were detected in any of the sub-surface soil samples obtained from SB-1 through SB-8 exceeding its respective SCOs.

Pesticides / PCBs; no pesticides or PCBs were identified in the sub-surface soil exceeding its respective Unrestricted SCOs.

TAL Metals; *Chromium was identified in two soil samples, SB- 1 and SB-6 exceeding their respective Unrestricted and Restricted Use Residential SCOs. Chromium was identified in SB-1 at a level of 34 mg/kg exceeding its Unrestricted SCOs of 30 mg/kg. Chromium was also identified in SB-6 at a level of 47.3 mg/kg exceeding their respective Unrestricted and Restricted Use Residential SCOs.*

Groundwater Quality:

VOCs; *The compound Chloroform was identified in groundwater samples, GW-3 and GW-4. Chloroform was identified in GW-3 at a level of 33µg/L and GW-4 at 29µg/L exceeding its respective Groundwater Quality Standards of 7µg/L.*

No other VOCs were identified above their respective Groundwater Quality Standards.

SVOCs; *six SVOCs were identified in groundwater samples, GW-3 exceeding its respective NYSDEC Ambient Groundwater Quality Standards. One SVOC was identified in GW-2 exceeding its respective Groundwater Quality Standards.*

The SVOCs identified are Benzo(a) Anthracene; Benzo(a)Pyrene; Benzo(b)Fluoranthene; Benzo(k)Fluoranthene; Chrysene; and Indeno (1,2,3-cd)Pyrene detected at a concentration ranging from 0.21µg/L to 0.65µg/L exceeding its respective Groundwater Quality Standard of 0.002µg/L for each compound. Benzo(a) Anthracene was identified in GW-2 exceeding its respective Groundwater Quality Standards.

Pesticides / PCBs; *the pesticide 4'-DDT and Dieldrin were detected in the groundwater sample GW-3 at a level of 0.74µg/L and 0.057µg/L exceeding its respective Groundwater Quality standards of 0.11µg/L and 0.004µg/L, respectively.*

TAL Metals; no TAL Metals were identified in the groundwater samples exceeding its respective Groundwater Quality Standards.

Based upon the laboratory results, it appears that the elevated levels of SVOCs and metals are mainly in the surface soil and consistent with urban fill material as seen throughout the NYC area. The origin of the fill material is unknown. The fill material may have been used in the historical development of the Site. VOCs, SVOCs and Pesticides were also identified in the groundwater beneath the Site. The elevated levels of VOCs, SVOCs and Pesticides identified in the groundwater appear to be in the vicinity beneath Lot 52 where GW-3 and GW-4 were installed.

All work referenced has been conducted in accordance with a Work Plan prepared by American Environmental Assessment & Solutions, Inc dated September 17th, 2012.

1.1 ENVIRONMENTAL PROFESSIONAL DECLARATIONS

Ms. Antoinette Ollivierre Senior Geologist, gathered and compiled information contained in this report and performed all fieldwork.

Antoinette Ollivierre, CEC, CEI
Senior Geologist

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

This summary does not contain all the information presented in the full report. The report should be read in its entirety to obtain a more complete understanding of the information provided and to aid in any decisions made or actions taken based on this information.

No effort has been made to perform any investigation beyond what is included in this report. The observations included herein summarize the results of the environmental activities up to date of the fieldwork and the date of this report.

The following sections provide the details and specific information pertaining to the various components of the Phase II Subsurface Investigation.

2.0 INTRODUCTION

American Environmental Assessment & Solutions, Inc has performed a Phase II Subsurface Investigation at the property located at 491 East 165th Street & 1052 Washington Avenue in the Morrisania section of Bronx, New York (the Site). The Phase II Subsurface Investigation was to address the environmental concerns indentified in the Phase I Environmental Site Assessment (ESA) report prepared by American

Environmental Assessment & Solutions, Inc dated 8/24/2012 at the Site in coordination with the New York City Office of Environmental Remediation (OER) to comply with the E-Designation for Hazardous Materials (E-118) requirements placed on the Site by the New York City Department of City Planning (DCP) via the 3/3/2003, Morrisania rezoning (CEQR 03DCP046X).

2.1 Site Location and Current Usage

The Subject Property consists of two rectangular-shaped, vacant lots that adjoin forming a T-shaped lot bordering East 165th Street and Washington Avenue. The first lot extends north-south and is enclosed by a chain-linked fence to the south along East 165th Street and by buildings to the east and west. The second lot is located to the north of the first lot and extends east-west. The second lot is enclosed by a chain-linked fence to the west along Washington Avenue and buildings to the east, north (partially) and south. Access to the Subject Property was via East 165th Street to the south and Washington Avenue to the west.

The total area of the Subject Property is approximately 10,319 square feet. The Tax Map number for the property is Block 2370 Lot 6 and 52. The property is zoned as MX-7; Mixed Use-7 (Morrisania, BX). The occupancy code with the New York City Department of Finance for the Subject Property is listed as G7; Unlicensed Parking Lot. The Little "E" Restriction for the Subject Property is listed as "HAZMAT" for lot 52 and "N/A" for Lot 6.

Lot 52 of the Subject Property was part of the Morrisania rezoning dated 3/3/2003. The E-Designation for Hazardous Materials (E-118) was placed on the Site by the New York City Department of City Planning (NYCDCP) under CEQR # 03DCP046X.

A Site Location Map is attached to this Work Plan.

2.2 Proposed Redevelopment Plan

Redevelopment efforts of the Site included planning, and construction of a ten (10) story residential building with a cellar. When completed the Subject Property will contain a 36,252 square feet building occupying the Site. The building will contain 58 units to be available to special needs and low income individuals. Part of the first floor will be utilized as office space. Proposed landscape areas will be in any open spaces not cover by the building. The Subject Property is currently zoned as MX-7; Mixed Use-7.

2.3 Previous Investigation(s)

The following environmental work plans and reports were developed for the Site:

Phase I Environmental Site Assessment, August 2012, prepared by American Environmental Assessment & Solutions, Inc.

This Phase I ESA identified three recognized environmental conditions (RECs) in connection with the Site:

- The presence of petroleum spills and staining on the Subject Property, (Section 5.0 of the Phase I ESA report).
- The Little "E" Designation of the property, (Section 6.0, 80 of the Phase I ESA report).
- Historical usage of the Subject Property for auto repair services and storage of vehicles, (Section 6.1, 7.1, 7.2 of the Phase I ESA report).

Phase II Subsurface Investigation Work Plan and Health & Safety Plan, September 2012, prepared by American Environmental Assessment & Solutions, Inc.

The Phase II Subsurface Investigation Work Plan provided the scope of work and protocol to be followed for the Phase II Subsurface Investigation.

3.0 PURPOSE AND SCOPE

The scope of work for the Phase II Subsurface Investigation was conducted in accordance with American Environmental Assessment & Solutions, Inc's Work Plan dated September 17th, 2012.

The purpose of the investigation was to characterize the subsurface soil and groundwater quality to comply with the requirements set forth for the E-Designation of the Site and for Site redevelopment.

The general scope of the Phase II Subsurface investigation consisted of the following:

- A geophysical survey to identify the presence or absence of underground storage tanks (USTs) or buried drums in the subsurface of the Site and to clear locations of proposed boring from buried utilities;
- Advancing of eight borings;
- Installation of three temporary monitoring wells;
- Collection of two samples from each boring for laboratory analysis;
- Groundwater sampling;
- Installation of four soil vapor probes and sampling;
- Preparation of a Phase II Subsurface Investigation Report documenting all work, assessment, conclusion of findings and recommendations.

The scope and methods used for the various field activities are documented below.

All related portions of the fieldwork were performed, at a minimum in accordance with acceptable industry standards. These acceptable industry standards include, but not limited to, the ASTM Standard Guide for Phase II Environmental Site Assessments (E 1903-97), the New York State Department of Environmental Conservation Remedial Program for Soil; Subpart 375-6, the New York State Department of Environmental Conservation Bureau of Spill Prevention & Response Sampling Guidelines and Protocols, March 1991 and the Draft DER-10 Technical Guidance for Site Investigation and Remediation, December 2002.

4.0 PHASE II FIELDWORK

The purpose of this section is to document the details and protocols that were utilized to accomplish the project goals. Field investigation and sampling activities were conducted on October 17th, 2012, under the supervision of Ms. Antoinette Ollivierre, Senior Geologist for AEASinc. Prior to the field investigation, utilities were marked out by the respective utility companies where they entered or were located adjacent to the Site. Utility mark out confirmation numbers 122780891 and 122780910 were issued to the mark out.

The following environmental field activities were performed at the Site:

Soil, Soil Vapor and Groundwater

- Eight (8) borings were completed at the site to address historic fill conditions, past usage, the E-Designation on Lot 52 and evenly spaced across the entire site.
- Borings SB-1, SB-2, and SB-3/MW-2 were installed on Lot 6.
- Boring SB-4, SB-5/MW-3 and SB-6/MW-4 will be installed on Lot 52.
- SG-1/SG-2/SG-3/SG-4 was installed on Lot 52 within the footprint of the proposed new construction.

4.1 GEOPHYSICAL SURVEY

Prior to drilling activities a geophysical survey was performed at the Site on October 13th, 2012. The geophysical survey was performed to determine the presence or absence of tank(s) and any other buried containers such as drums and mark out all onsite utilities in the vicinity and surrounding the proposed drilling location.

The geophysical survey was performed across the entire site prior to investigative borings using ground penetrating radar (GPR). The GPR survey was performed utilizing a Mala, model; easy locator. A series of GPR profiles will be completed along selected lines using a Control Unit. The survey was performed across the Site over a grid pattern. The GPR operator wheeled the antenna over the predetermined grid. The GPR equipment takes "scan" per set unit. The number of scans per unit is based upon the estimated size of targets. As each scan is performed, the antenna emits specific radar amplitude into the subsurface. The amplitude of the radar reflected back to the antenna is based upon the differences in the dielectric constants of the subsurface materials. The difference in amplitude obtained during each scan is graphically

displayed at the Control Unit, which will then interpreted by the GPR operator at the time of the survey.

The GPR survey did not identify any anomaly consistent with buried containers such as tanks or drums.

4.2 Soil Investigation

Protocol and Sampling Locations

A soil sampling program was conducted according to the American Environmental Assessment & Solutions, Inc's WP dated September 17th, 2012. Soil samples were collected to assess the soil quality in the subsurface of the Site.

A total of eight (8) soil borings by direct-push technology was performed at the Site utilizing a Geoprobe® to install all boring locations. The soil borings were designated SB-1 through SB-8 and advance from ground surface below until groundwater was encountered. Soil samples were collected in all borings at 2-foot intervals utilizing a 4-foot Macro Core sampler fitted with dedicated acetate liners. The Macro sampler allows for the collection of both continuous and discrete soil samples. Each sampler was installed with 1 ½ -inch diameter drill rods. Two soil samples were obtained from each boring for analysis. Refusal was encountered three times in soil boring SB-1 at 6 feet bg. Refusal was also encountered in soil boring SB-2 at 16 feet bg.

The following provides the locations of soil borings SB-1 through SB-8 and sample intervals:

Soil Borings Locations				
Soil Boring	Location(s) Installed	Total Depth (ft bgs)	Sample Interval Depth (ft bgs)	PID Readings (ppm)
SB-1	Western portion of Lot 6	6	0 - 2	0.0
			-	-
SB-2	Central portion of Lot 6	16	0 - 2	0.0
			15 - 16	0.0
SB-3	Eastern portion of Lot 6	20	0 - 2	0.0
			17 - 19	0.0
SB-4	Northwestern portion of Lot 52	20	0 - 2	0.0
			17 - 19	0.0
SB-5	Northeastern portion of Lot 52	20	0 - 2	0.0

Soil Borings Locations				
Soil Boring	Location(s) Installed	Total Depth (ft bgs)	Sample Interval Depth (ft bgs)	PID Readings (ppm)
			17 - 19	0.2
SB-6	Central portion of Lot 52	20	0 - 2	52.4
			17 - 19	0.0
SB-7	Southwestern port of Lot 52	20	0 - 2	5.9
			17 - 19	10.1
SB-8	Southeastern portion of lot 52	20	0 - 2	24.6
			17 - 19	2.1

Upon completion of the investigation, borings were filled with soil cuttings and clean soil to ground surface.

Figure 3 provides a Sampling Location Map

4.3 Field Characterization

An AEASinc geologist onsite characterized each soil sample in the field. The soil characterization consisted of determining the soil classification utilizing the Unified Soil Classification System; screening for organic vapors utilizing a Photoionization Detector (PID); and evaluation for visual and olfactory indications of environmental impacts. Headspace analyses were conducted on each sample by partially filling the zip lock bag and sealing it, thereby creating a void. This void is referred to as the sample headspace. To facilitate the detection of any hydrocarbons contained within the headspace, the container was agitated for a period of 30 seconds. Each sample was then screened for organic vapors utilizing a Photoionization Detector (PID)

A PID makes use of the principle of photoionization for the detection and qualitative measurement of organic vapors. A PID does not respond to all compounds similarly, rather, each compound has its own response factor relative to its calibration. For this investigation, the PID was calibrated to the compound isobutylene, which is published by the manufacturer. The PID has a minimum detection limit of 0.1 parts per million (ppm). This meter measures the hydrocarbon concentrations in isolated portions of the secured samples.

Olfactory evidence of petroleum contamination was identified during the field screening of the samples from the soil boring installed on Lot 52. Organic vapors were detected with the PID during the field screening of samples and the highest level of

organic vapors detected in each boring are listed in the table above. No visual staining, sheen and petroleum odor were identified in soil boring SB-1 through SB-8. The soil sample was then placed into 4 and 8-ounce jars and appropriately labeled. The general soil type beneath the Site consisted of fill material containing rocks, bricks, and debris to approximately 5 feet below grade and fine to medium grained Silty sand at deeper depths with some areas containing clayey sand and rocks in various locations.

Additional information for each sample field screened is provided as appendix C; boring logs. The water table was encountered during this investigation at approximately 18 feet below grade.

Appendix C provides copies of the Soil Boring Logs

Based upon the requirements set forth in the scope of work, two select soil samples from each boring were containerized and placed in a cooler filled with ice maintained at a maximum 4 degrees Celsius to be transmitted under proper chain of custody to a State-certified laboratory.

4.4 Groundwater Investigation

Three of the soil borings installed were converted to temporary wells for groundwater collection. Soil boring SB-3, SB-6 and SB-7 were converted to temporary monitoring wells by inserting a 1-inch diameter PVC well screen and riser into the open borehole. Low-flow sampling techniques were utilized to purge the wells and obtain the groundwater samples. One representative groundwater sample was collected from each well with a peristaltic pump and dedicated Teflon tubing and placed into laboratory supplied glassware. The Sampling was conducted in accordance with NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation, dated December 2002, and Sampling Guidelines and Protocols, dated March 1991. Following sample collection, the boreholes were backfilled with soil cuttings and clean soil.

The following provides a summary of the temporary monitoring wells and groundwater collection points.

Soil Boring	Location(s) Installed	Depth to Groundwater (feet)
SB-1/MW-1	Western portion of Lot 6	Refusal- no sample
SB-3/MW-2	Eastern portion of Lot 6	18
SB-6/MW-3	Central portion of Lot 52	18
SB-7/MW-4	Southwestern portion of lot 52	18

4.5 Soil Vapor Sampling

Four (4) soil vapor probes were installed at selected locations within the footprint of the proposed new construction in accordance with the NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006. The soil vapor probes were installed by drilling a 2 1/4-inch hole to approximately 15 feet below grade using a Geoprobe drilling system. A vapor point comprised of a stainless steel screen was connected to 1/4-inch stainless steel tubing advanced into the hole. The tubing was then connected with a sample fitting to allow for the collection of soil gas. The annular space around the stainless steel screen was packed with coarse sand to six-inches above the screen, creating a sampling zone. A bentonite seal was then be placed above the sampling zone.

Four Samples were collected in Summa canisters which have been certified clean by the laboratory and analyzed by using USEPA Method TO-15. Flow rate of both purging and sampling did not exceed 0.2 L/min. Sampling occurred for duration of 2 hours. Prior to sample collection the soil vapor will be screened for the presence of VOCs using a PID.

All samples were collected in accordance with the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH October 2006). Conditions in the field may require adjustment to the sampling locations.

4.6 Decontamination

Each piece of sampling or other down hole equipment was decontaminated prior to each use in order to ensure that cross-contamination between sampling locations does not occur. The following procedure was utilized in the decontamination process:

- Wipe clean and wash with Alconox[®]
- Potable water rinse
- Methanol rinse
- Deionized water rinse
- Air dry

All decontamination procedures were performed in an area segregated from any sampling areas. Any rinsate from the decontamination areas is contained and removed from the Site.

4.7 Laboratory Analytical

All samples were properly handled and placed into appropriate labeled laboratory supplied containers. The samples were placed in a cooler filled with ice and maintained at a maximum 4 degrees Celsius. All samples were transmitted under proper chain of custody procedures to a State-certified (ELAP No. 11301) laboratory for confirmatory laboratory analyses.

- Volatile Organic Compounds by EPA Method 8260;
- Semi-volatile organic compounds by EPA Method 8270;
- Pesticides/PCBs by EPA Method 8081/8082; and
- Target Analyte List metals by EPA Method 6010;

All groundwater samples were analyzed for both filtered and unfiltered metals.

Soil vapor samples were analyzed for VOCs by using USEPA Method TO-15.

All holding times were met. The laboratory did not report any irregularities with respect to their internal Quality Assurance / Quality Control.

5.0 ANALYTICAL RESULTS

5.1 Results of Soil Samples

Table 1 through 8 provides the analytical results for the Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), Pesticides/PCBs and TAL Metals detected in soil samples SB-1 through SB-8. **Table 1 through 8** also provides a comparison of the analytical results to the Recommended Soil Cleanup Objectives (SCO) from the 6 NYCRR Part 375.6(b) Restricted Residential Soil Cleanup Objectives. The SCOs represent the concentration of a contaminant in soil which when achieved at the Site will require no use restrictions on the Site for the protection of public health, groundwater and ecological resources due to the presence of contaminants in soil.

Surface Soil Quality; 0 – 2 feet:

VOCs; no VOCS were detected in any of the surface soil samples SB-1 through SB-8.

SVOCs; *SVOCs were identified in six soil samples, SB-3 through SB-8 at levels above their respective Unrestricted and Restricted Use Residential SCOs. The SVOCs identified in the soil samples other known as Poly Aromatic Hydrocarbons (PAHs) are usually associated with “fill Material”.*

The following table is a summary of the SVOCs exceeding its respective Unrestricted Use and Restricted Use Residential SCOs. The complete table is attached to this report.

Boring & Level Detected	Compound Name	Unrestricted Use SCOs (µg/kg)	Restricted Use Residential SCOs (µg/kg)
SB-3 at 2,600	Benzo (a) Anthracene	1,000	1,000
SB-4 at 6,100			
SB-6 at 1,400			
SB-7 at 1,500			
SB-8 at 1,200			
SB-3 at 2,400	Benzo (a) Pyrene	1,000	1,000
SB-4 at 6,300			
SB-6 at 1,300			
SB-7 at 1,500			
SB-8 at 1,100			
SB-3 at 4,100	Benzo (b) Fluoranthene	1,000	1,000
SB-4 at 10,000			
SB-5 at 1,000			
SB-6 at 1,900			
SB-7 at 1,900			
SB-8 at 1,700	Benzo (k) Fluoranthene	800	1,000
SB-3 at 1,500			
SB-4 at 2,500	Chrysene	1,000	1,000
SB-3 at 3,000			
SB-4 at 7,000			
SB-7 at 1,400			
SB-8 at 1,600	Dibenzo (a,h) Anthracene	330	330
SB-4 at 900			
SB-3 at 950	Indeno (1,2,3-cd) Pyrene	500	500
SB-4 at 3,100			
SB-5 at 500			
SB-7 at 570			

The highest levels of SVOCs were detected in the surface soil sample from SB-3 and SB-4, both which were installed on Lot 52.

Pesticides / PCBs; no pesticides or PCBs were identified in the surface soil exceeding its respective Unrestricted SCOs.

TAL Metals; TAL metals were identified in six of the surface soil samples, SB-1 through SB-5 and SB-7 exceeding their respective Unrestricted and Restricted Use Residential SCOs. Barium, Chromium, Lead and mercury were identified on the Site at levels exceeding both the Unrestricted and Restricted Use Residential SCOs.

Barium was identified in SB-2 SB-4 and SB-8 at levels above their respective SCOs.

Chromium was identified in SB-8 at levels above their respective SCOs.

Copper was identified in SB-7 at levels above their respective SCOs.

Zinc was identified in every soil sample except SB-6 at levels above their respective Unrestricted SCOs.

Lead was identified in every soil sample at levels above their respective Unrestricted use SCOs.

Mercury was identified in every sample except for soil sample SB-6 and SB-7.

Sub-Surface Soil Quality; 17 - 19 feet bg & 15-16 feet bg in SB-1:

VOCS; no VOCS were detected in any of the sub-surface soil samples SB-1 through SB-8 exceeding its respective SCOs.

SVOCs; no SVOCs were detected in any of the sub-surface soil samples SB-1 through SB-8 exceeding its respective SCOs.

Pesticides / PCBs; no pesticides or PCBs were identified in any of the sub-surface soil exceeding its respective Unrestricted SCOs.

TAL Metals; *Chromium was identified in two soil samples, SB- 1 and SB-6 exceeding their respective Unrestricted and Restricted Use Residential SCOs. Chromium was identified in SB-1 at a level of 34 mg/kg exceeding its Unrestricted SCOs of 30 mg/kg. Chromium was also identified in SB-6 at a level of 47.3 mg/kg exceeding its respective Unrestricted and Restricted Use Residential SCOs.*

5.2 Results of Groundwater Samples

Table 9 through 12 provides the analytical results for the Volatile Organic Compounds (VOCs); Semi-Volatile Organic Compounds (SVOCs); Pesticides/PCBs and TAL Metals detected in groundwater samples GW-2 through GW-4. **Table 9 through 12** also provides a comparison of the analytical results to the NYSDEC TOGS Ambient Groundwater Quality Standards.

Groundwater Quality:

VOCS; *The compound Chloroform was identified in groundwater samples, GW-3 and GW-4. Chloroform was identified in GW-3 at a level of 33µg/L and GW-4 at 29µg/L exceeding its respective Groundwater Quality Standards of 7µg/L.*

No other VOCs were identified above their respective Groundwater Quality Standards. However Tetrachloroethene and Trichloroethene were detected in the groundwater at low levels.

SVOCs; six SVOCs were identified in groundwater samples, GW-3 exceeding its respective NYSDEC Ambient Groundwater Quality Standards. One SVOC was identified in GW-2 exceeding its respective NYSDEC Ambient Groundwater Quality Standards.

The SVOCs identified in GW-3 are Benzo(a) Anthracene; Benzo(a)Pyrene; Benzo(b)Fluoranthene; Benzo(k)Fluoranthene; Chrysene; and Indeno (1,2,3-cd) Pyrene at concentration ranging from 0.21µg/L to 0.65µg/L exceeding its respective Groundwater Quality Standard of 0.002µg/L for each compound. Benzo(a) Anthracene was identified in GW-2 exceeding its respective Groundwater Quality standards.

The following table is a summary of the SVOCs exceeding its respective NYS Ambient Groundwater Quality Standards. The complete table is attached to this report.

Groundwater Sample	Detected Concentration (µg/L)	Compound Name	NYS Ambient Groundwater Quality (µg/L)
GW-3	0.59	Benzo (a) Anthracene	0.002
	0.45	Benzo (a) Pyrene	0.002
	0.64	Benzo (b) Fluoranthene	0.002
	0.23	Benzo (k) Fluoranthene	0.002
	0.62	Chrysene	0.002
	0.25	Indeno (1,2,3-cd) Pyrene	0.002
GW-2	0.04	Benzo (a) Anthracene	0.002

Pesticides / Polychlorinated Biphenyls (PCBs); the pesticide 4'-DDT and Dieldrin were detected in the groundwater sample GW-3 at a level of 0.74µg/L and 0.057µg/L exceeding its respective Groundwater Quality standards of 0.11µg/L and 0.004µg/L, respectively.

Target Analyte List (TAL) Metals; no TAL Metals were identified in the groundwater samples exceeding its respective Groundwater Quality Standards.

Based upon the laboratory results, it appears that the elevated levels of SVOCs and metals are mainly in the surface soil and consistent with urban fill material as seen throughout the NYC area. The origin of the fill material is unknown. The fill material may have been used in the historical development of the Site. VOCs, SVOCs and Pesticides were also identified in the groundwater beneath the Site. The elevated levels of VOCs, SVOCs and Pesticides identified in the groundwater appear to be beneath Lot 52 where GW-3 and GW-4 were installed. No Pesticides/PCBs were identified in any of the soil samples.

Table 1 through 12 are attached to this report

Appendix B provides a copy of the soil and groundwater samples laboratory results

5.3 Results of Soil Vapor Samples

The soil vapor samples collected indicated low concentrations of VOCS ranging from 0.26 $\mu\text{g}/\text{m}^3$ to 399 $\mu\text{g}/\text{m}^3$. Petroleum related VOCs detected include toluene at concentrations ranging from 96.1 $\mu\text{g}/\text{m}^3$ to 163 $\mu\text{g}/\text{m}^3$ in all four soil vapor locations; Benzene was identified at a concentration ranging from 10.5 $\mu\text{g}/\text{m}^3$ to 15.5 $\mu\text{g}/\text{m}^3$; Ethylbenzene at concentrations ranging from 17.2 $\mu\text{g}/\text{m}^3$ to 18.9 $\mu\text{g}/\text{m}^3$; o-Xylene at concentrations ranging from 17 $\mu\text{g}/\text{m}^3$ to 19.2 $\mu\text{g}/\text{m}^3$.

Chlorinated related VOCS identified include Tetrachloroethene (PCE) at concentrations ranging from 14.7 $\mu\text{g}/\text{m}^3$ to 16.9 $\mu\text{g}/\text{m}^3$; Trichloroethene (TCE) at concentrations ranging from 0.07 $\mu\text{g}/\text{m}^3$ to 0.79 $\mu\text{g}/\text{m}^3$; and 1,1,1-trichloroethane (TCA) detected only in SV-4 at a concentration of 1.25 $\mu\text{g}/\text{m}^3$.

New York State currently does not have any standards, criteria or guidance values for concentrations of compounds in soil vapor. Additionally, there are currently no databases available of background levels of volatile chemicals in soil vapor. In the absence of this information, soil vapor sampling results are reviewed "as a whole," in conjunction with the results of other environmental sampling and the site conceptual model, to identify trends and spatial variations in the data.

5.4 Quality Assurance/Quality Control Procedures

QA/QC procedures was used to provide performance information with regard to accuracy, precision, sensitivity, representation, completeness, and comparability associated with the sampling and analysis for this investigation. Field QA/QC procedures was used (1) to document that samples are representative of actual conditions at the Site and (2) identify possible cross-contamination from field activities or sample transit. Laboratory QA/QC procedures and analyses was used to demonstrate whether analytical results have been biased either by interfering compounds in the sample matrix, or by laboratory techniques that may have introduced systematic or random errors to the analytical process. A summary of the field and laboratory QA/QC procedures are provided in the appendices.

6.0 CONCLUSIONS

American Environmental Assessment & Solutions, Inc (AEASinc) has performed a Phase II Subsurface Investigation at the property located at 491 East 165th Street and 1052 Washington Avenue, Bronx, NY. Based upon the findings of the Phase II Subsurface Investigation, the following conclusions are provided.

- The field portion of AEASinc's investigation consisted of a geophysical survey to determine the presence or absence of any buried containers and to locate and mark out onsite utilities, the installation and sampling of eight (8) soil borings; the installation of three temporary monitoring wells and the installation of four soil vapor probes. All fieldwork was performed in accordance with all applicable federal, state and local regulations. Select soil was collected based upon protocols set forth in the September 17th, 2012 WP, infield screening and analyzed at a state-certified laboratory for VOCs via EPA Method 8260, SVOCs via EPA Method 8270, Pesticides and PCBs via EPA Method 8081 and 8081, and TAL metals. Soil vapor samples will be analyzed for VOCs by using USEPA Method TO-15.
- Ground Penetrating Radar (GPR) Survey:
Findings from the GPR survey did not identified any significant anomalies consistent with the presence of a tank(s) or containers such as drums in the subsurface.
- Surface Soil Quality; 0 - 2 feet bg:
VOCs; no VOCS were detected in any of the surface soil samples SB-1 through SB-8.

SVOCs; SVOCs were identified in six soil samples, SB-3 through SB-8 at levels above their respective Unrestricted and Restricted Use Residential SCOs. The SVOCs identified are usually associated with "fill Material".

Pesticides / PCBs; no pesticides or PCBs were identified in the surface soil exceeding its respective Unrestricted SCOs.

TAL Metals; *TAL metals were identified in six of the surface soil samples, SB-1 through SB-5 and SB-7 exceeding their respective Unrestricted and Restricted Use Residential SCOs.*

- Sub-Surface Soil Quality; 17 - 19 feet bg & 15-16 feet bg in SB-1:
VOCs; no VOCS were detected in any of the sub-surface soil samples SB-1 through SB-8.

SVOCs; no SVOCs were detected in any of the sub-surface soil samples SB-1 through SB-8.

Pesticides / PCBs; no pesticides or PCBs were identified in the sub-surface soil exceeding its respective Unrestricted SCOs.

TAL Metals; *Chromium was identified in two soil samples, SB- 1 and SB-6 exceeding their respective Unrestricted and Restricted Use Residential SCOs. Chromium was identified in*

SB-1 at a level of 34 mg/kg exceeding its Unrestricted SCOs of 30 mg/kg. Chromium was also identified in SB-6 at a level of 47.3 mg/kg exceeding their respective Unrestricted and Restricted Use Residential SCOs.

- **Groundwater Quality:**

VOCs; The compound Chloroform was identified in groundwater samples, GW-3 and GW-4. Chloroform was identified in GW-3 at a level of 33µg/L and GW-4 at 29µg/L exceeding its respective Groundwater Quality Standards of 7µg/L.

No other VOCs were identified above their respective Groundwater Quality Standards. However Tetrachloroethene and Trichloroethene were detected in the groundwater at low levels.

SVOCs; six SVOCs were identified in groundwater samples, GW-2 and GW-3 exceeding its respective Groundwater Quality Standards. The SVOCs identified are Benzo(a) Anthracene; Benzo(a)Pyrene; Benzo(b)Fluoranthene; Benzo(k)Fluoranthene; Chrysene; and Indeno (1,2,3-cd)Pyrene detected at a concentration ranging from 0.21µg/L to 0.65µg/L exceeding its respective Groundwater Quality Standard of 0.002µg/L for each compound. Benzo(a) Anthracene was identified in GW-2 exceeding its respective Groundwater Quality Standards.

Pesticides / PCBs; the pesticide 4'-DDT and Dieldrin were detected in the groundwater sample GW-3 at a level of 0.74µg/L and 0.057µg/L exceeding its respective Groundwater Quality standards of 0.11µg/L and 0.004µg/L, respectively.

TAL Metals; no TAL Metals were identified in the groundwater samples exceeding its respective Groundwater Quality Standards.

Based upon the laboratory results, it appears that the elevated levels of SVOCs and metals are mainly in the surface soil and consistent with urban fill material as seen throughout the NYC area. The origin of the fill material is unknown. The fill material may have been used in the historical development of the Site. VOCs, SVOCs and Pesticides were also identified in the groundwater beneath the Site. The elevated levels of VOCs, SVOCs and Pesticides identified in the groundwater appear to be in the vicinity beneath Lot 52 where GW-3 and GW-4 were installed.

All work referenced has been conducted in accordance with a Work Plan prepared by American Environmental Assessment & Solutions, Inc dated September 17th, 2012.

7.0 RECOMMENDATIONS

Based upon the findings of the Phase II Subsurface investigation presented above, AEASinc provides the following recommendations:

- A Remedial Action Plan (RAP) and Construction Health and Safety Plan (CHASP) to address the contaminants identified in the surface soil and groundwater should be prepared and submitted to the NYCOER for review and comment.



APPENDIX 3

Soil Boring Geologic Logs



Mailing:
PO Box 6376
North Babylon, NY 11703

Business:
679 Lafayette Avenue, 3rd Floor
Brooklyn, NY 11216

Telephone: (718) 209-0653 ♦ Fax: (718) 906-4090
Email: info@AEASinc.com
www.AEASinc.com

SOIL BORING LOG

JOB #:	12-0135-II-E	PAGE:	1 of 8
LOCATION:	491 East 165th St. & 1052 Washington Ave. Bronx, NY	DATE:	10/15/2012
BORING #:	SB-1	SAMPLING INTERVAL:	2 Feet
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Split Spoon
TOTAL DEPTH:	6 feet	DRILLER:	Carlos / Zebra
		DEPTH TO WATER:	18

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	PT - Peat / High Organics
GC - Clayey Gravel	SC - Clayey Sand	

DEPTH BELOW GRADE AND LITHOLOGY	PID READING (ppm)	USCS	SOIL DESCRIPTION
0			
-2	0.0	-	Grey, black and brown silty sand containing bricks, rocks and debris
-4			
-6	0.0	-	Grey, black and brown silty sand containing bricks, rocks and debris
-8			End of boring
-10			
-12			
-14			
-16			
-18			
-20			



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SOIL BORING LOG

JOB #:	12-0135-II-E	PAGE:	2 of 8
LOCATION:	491 East 165th St. & 1052 Washington Ave. Bronx, NY	DATE:	10/15/2012
BORING #:	SB-2	SAMPLING INTERVAL:	2 Feet
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Split Spoon
TOTAL DEPTH:	16 feet	DRILLER:	Carlos / Zebra
		DEPTH TO WATER:	18

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	PT - Peat / High Organics
GC - Clayey Gravel	SC - Clayey Sand	

DEPTH BELOW GRADE AND LITHOLOGY	PID READING (ppm)	USCS	SOIL DESCRIPTION
0			
-2	0.0	-	Grey, black and brown silty sand containing bricks, rocks and debris
-4			
-6	0.0	SM	Brown fine grained silty-sand containing rocks
-8			
-10	0.0	SM	Brown fine grained silty-sand containing rocks
-12			
-14	0.0	SM	Brown fine grained silty-sand containing rocks
-16			
-18			End of boring
-20			



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**SOIL
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JOB #:	12-0135-IIIE	PAGE:	3 of 8
LOCATION:	491 East 165th St. & 1052 Washington Ave. Bronx, NY	DATE:	10/15/2012
BORING #:	SB-3	SAMPLING INTERVAL:	2 Feet
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Split Spoon
TOTAL DEPTH:	20 feet	DRILLER:	Carlos / Zebra
		DEPTH TO WATER:	18

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	PT - Peat / High Organics
GC - Clayey Gravel	SC - Clayey Sand	

DEPTH BELOW GRADE AND LITHOLOGY	PID READING (ppm)	USCS	SOIL DESCRIPTION
0			
-2 to -6	0.0	-	Grey, black and brown to dark-brown silty sand containing bricks, rocks, debris and organic material
-6 to -10	0.0	-	Dark brown silty sand containing bricks, rocks and debris
-10 to -16	0.0	SM	Brown fine grained silty-sand containing rocks
-16 to -20	0.0	SM	Brown fine grained silty-sand, wet
			End of boring



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**SOIL
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JOB #:	12-0135-II-E	PAGE:	4 of 8
LOCATION:	491 East 165th St. & 1052 Washington Ave. Bronx, NY	DATE:	10/15/2012
BORING #:	SB-4	SAMPLING INTERVAL:	2 Feet
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Split Spoon
TOTAL DEPTH:	20 feet	DRILLER:	Carlos / Zebra
		DEPTH TO WATER:	18

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	PT - Peat / High Organics
GC - Clayey Gravel	SC - Clayey Sand	

DEPTH BELOW	PID	USCS	SOIL DESCRIPTION
0			
-2	0.0	-	Dark-brown silty sand containing bricks, rocks, asphalt, debris and organic material
-4			
-6	0.0	-	Dark brown silty sand containing bricks, rocks and debris
-8			
-10	0.0	SM	Brown fine grained silty-sand
-12			
-14	0.0	SM	Brown fine grained silty-sand, wet
-16			
-18			
-20			End of boring



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**SOIL
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JOB #:	12-0135-II-E	PAGE:	5 of 8
LOCATION:	491 East 165th St. & 1052 Washington Ave. Bronx, NY	DATE:	10/15/2012
BORING #:	SB-5	SAMPLING INTERVAL:	2 Feet
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Split Spoon
TOTAL DEPTH:	20 feet	DRILLER:	Carlos / Zebra
		DEPTH TO WATER:	18

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	PT - Peat / High Organics
GC - Clayey Gravel	SC - Clayey Sand	

DEPTH BELOW GRADE AND LITHOLOGY	PID READING (ppm)	USCS	SOIL DESCRIPTION
0			
-2	0.0	-	Dark-brown silty sand containing bricks, rocks, concrete, asphalt, debris and organic material
-4			
-6	0.0	-	Dark brown silty sand containing bricks, rocks and debris
-8			
-10	0.0	SM	Brown fine grained silty-sand containing rocks
-12			
-14	0.0	SM	Brown fine grained silty-sand, wet
-16			
-18			
-20			End of boring



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**SOIL
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JOB #:	12-0135-IEE	PAGE:	6 of 8
LOCATION:	491 East 165th St. & 1052 Washington Ave. Bronx, NY	DATE:	10/15/2012
BORING #:	SB-6	SAMPLING INTERVAL:	2 Feet
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Split Spoon
TOTAL DEPTH:	20 feet	DRILLER:	Carlos / Zebra
		DEPTH TO WATER:	18

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	PT - Peat / High Organics
GC - Clayey Gravel	SC - Clayey Sand	

DEPTH BELOW GRADE AND LITHOLOGY	PID READING (ppm)	USCS	SOIL DESCRIPTION
0			
-2	52.4	-	Dark-brown silty sand containing bricks, rocks, concrete, asphalt, debris and organic material
-4			
-6			
-8	0.0	-	Dark brown silty sand containing bricks, rocks and debris
-10			
-12	0.0	SM	Brown fine grained silty-sand containing rocks
-14			
-16			
-18	0.0	SM	Brown fine grained silty-sand, wet
-20			
			End of boring



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JOB #:	12-0135-III	PAGE:	7 of 8
LOCATION:	491 East 165th St. & 1052 Washington Ave. Bronx, NY	DATE:	10/15/2012
BORING #:	SB-7	SAMPLING INTERVAL:	2 Feet
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Split Spoon
TOTAL DEPTH:	20 feet	DRILLER:	Carlos / Zebra
		DEPTH TO WATER:	18

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	PT - Peat / High Organics
GC - Clayey Gravel	SC - Clayey Sand	

DEPTH BELOW GRADE AND LITHOLOGY	PID READING (ppm)	USCS	SOIL DESCRIPTION
0			
-2	5.9	-	Grey, black and brown silty sand containing bricks, rocks and debris
-6	0.0	-	Grey, black and brown silty sand containing bricks, rocks and debris
-12	0.0	SM	Brown fine grained silty-sand containing rocks
-18	10.1	SM	Brown fine grained silty-sand containing rocks
-20			End of boring



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JOB #:	12-0135-III	PAGE:	8 of 8
LOCATION:	491 East 165th St. & 1052 Washington Ave. Bronx, NY	DATE:	10/15/2012
BORING #:	SB-8	SAMPLING INTERVAL:	2 Feet
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Split Spoon
TOTAL DEPTH:	20 feet	DRILLER:	Carlos / Zebra
		DEPTH TO WATER:	18

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	PT - Peat / High Organics
GC - Clayey Gravel	SC - Clayey Sand	

DEPTH BELOW GRADE AND LITHOLOGY	PID READING (ppm)	USCS	SOIL DESCRIPTION
0			
-2	24.6	-	Grey, black and brown silty sand containing bricks, rocks and debris
-4			
-6			
-8	0.0	-	Brown silty sand containing bricks, rocks and debris
-10			
-12	0.0	SM	Brown fine grained silty-sand
-14			
-16			
-18	2.1	SM	Brown fine grained silty-sand
-20			
			End of boring



APPENDIX 4

Laboratory Data Deliverables for Soil Analytical Data



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: SOIL
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

10/15/12
 10/16/12

Time

9:30
 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83695

Project ID: 491 EAST 165TH ST.
 Client ID: SB-1 0-2 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.32	0.32	mg/Kg	10/17/12	EK	SW6010
Aluminum	8860	48	mg/Kg	10/17/12	EK	SW6010
Arsenic	2.7	0.6	mg/Kg	10/17/12	EK	SW6010
Barium	282	3.2	mg/Kg	10/17/12	EK	SW6010
Beryllium	0.32	0.26	mg/Kg	10/17/12	EK	SW6010
Calcium	6390	48	mg/Kg	10/17/12	EK	SW6010
Cadmium	1.04	0.32	mg/Kg	10/17/12	EK	SW6010
Cobalt	6.55	0.32	mg/Kg	10/17/12	EK	SW6010
Chromium	21.7	0.32	mg/Kg	10/17/12	EK	SW6010
Copper	29.3	0.32	mg/kg	10/17/12	EK	SW6010
Iron	13400	48	mg/Kg	10/17/12	EK	SW6010
Mercury	0.23	0.07	mg/Kg	10/17/12	RS	SW-7471
Potassium	980	48	mg/Kg	10/17/12	EK	SW6010
Magnesium	3270	48	mg/Kg	10/17/12	EK	SW6010
Manganese	245	3.2	mg/Kg	10/17/12	EK	SW6010
Sodium	141	48	mg/Kg	10/17/12	EK	SW6010
Nickel	16.2	0.32	mg/Kg	10/17/12	EK	SW6010
Lead	349	3.2	mg/Kg	10/17/12	EK	SW6010
Antimony	< 3.2	3.2	mg/Kg	10/17/12	EK	SW6010
Selenium	< 1.3	1.3	mg/Kg	10/17/12	EK	SW6010
Thallium	< 0.5	0.5	mg/Kg	10/17/12	LK	SW6010
Vanadium	28.7	0.32	mg/Kg	10/17/12	EK	SW6010
Zinc	225	3.2	mg/Kg	10/17/12	EK	SW6010
Percent Solid	91		%	10/16/12	JL	E160.3
Soil Extraction for PCB	Completed			10/16/12	BB	SW3545
Soil Extraction for Pesticide	Completed			10/16/12	BBV	SW3545
Soil Extraction for SVOA	Completed			10/16/12	JJ/V	SW3545
Mercury Digestion	Completed			10/17/12	XX	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			10/16/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1221	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1232	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1242	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1248	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1254	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1260	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1262	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1268	ND	360	ug/Kg	10/17/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	90		%	10/17/12	AW	30 - 150 %
% TCMX	78		%	10/17/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	35	ug/Kg	10/16/12	MH	SW8081
4,4' -DDE	ND	35	ug/Kg	10/16/12	MH	SW8081
4,4' -DDT	ND	35	ug/Kg	10/16/12	MH	SW8081
a-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Alachlor	ND	18	ug/Kg	10/16/12	MH	SW8081
Aldrin	ND	5.5	ug/Kg	10/16/12	MH	SW8081
b-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Chlordane	ND	55	ug/Kg	10/16/12	MH	SW8081
d-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Dieldrin	ND	5.5	ug/Kg	10/16/12	MH	SW8081
Endosulfan I	ND	18	ug/Kg	10/16/12	MH	SW8081
Endosulfan II	ND	35	ug/Kg	10/16/12	MH	SW8081
Endosulfan sulfate	ND	35	ug/Kg	10/16/12	MH	SW8081
Endrin	ND	35	ug/Kg	10/16/12	MH	SW8081
Endrin aldehyde	ND	35	ug/Kg	10/16/12	MH	SW8081
Endrin ketone	ND	35	ug/Kg	10/16/12	MH	SW8081
g-BHC	ND	5.5	ug/Kg	10/16/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	10/16/12	MH	SW8081
Heptachlor epoxide	ND	18	ug/Kg	10/16/12	MH	SW8081
Methoxychlor	ND	180	ug/Kg	10/16/12	MH	SW8081
Toxaphene	ND	180	ug/Kg	10/16/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	89		%	10/16/12	MH	30 - 150 %
% TCMX	89		%	10/16/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloroethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloroethene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloropropene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,2-Dibromoethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,2-Dichloroethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,2-Dichloropropane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,3-Dichloropropane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
2,2-Dichloropropane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
2-Chlorotoluene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
2-Hexanone	ND	27	ug/Kg	10/21/12	R/J	SW8260
2-Isopropyltoluene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	10/21/12	R/J	SW8260
Acetone	ND	27	ug/Kg	10/21/12	R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	10/21/12	R/J	SW8260
Benzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Bromobenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Bromochloromethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Bromodichloromethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Bromoform	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Bromomethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Carbon Disulfide	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Carbon tetrachloride	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Chlorobenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Chloroethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Chloroform	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Chloromethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260 1
Dibromochloromethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Dibromomethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Ethylbenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Hexachlorobutadiene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260 1P
Isopropylbenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
m&p-Xylene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	10/21/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	10/21/12	R/J	SW8260
Methylene chloride	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Naphthalene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
n-Butylbenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
n-Propylbenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
o-Xylene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
p-Isopropyltoluene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
sec-Butylbenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
tert-Butylbenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Tetrachloroethene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	10/21/12	R/J	SW8260
Toluene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Total Xylenes	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	10/21/12	R/J	SW8260
Trichloroethene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Trichlorofluoromethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Vinyl chloride	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	99		%	10/21/12	R/J	70 - 130 %
% Bromofluorobenzene	77		%	10/21/12	R/J	70 - 130 %
% Dibromofluoromethane	98		%	10/21/12	R/J	70 - 130 %
% Toluene-d8	102		%	10/21/12	R/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,2-Dichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	360	ug/Kg	10/17/12	DD	SW 8270
1,3-Dichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,4-Dichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4-Dichlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4-Dimethylphenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrophenol	ND	580	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrotoluene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,6-Dinitrotoluene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Chloronaphthalene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Chlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Methylnaphthalene	1100	250	ug/Kg	10/17/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Nitroaniline	ND	580	ug/Kg	10/17/12	DD	SW 8270
2-Nitrophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	10/17/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	250	ug/Kg	10/17/12	DD	SW 8270
3-Nitroaniline	ND	580	ug/Kg	10/17/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	10/17/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	360	ug/Kg	10/17/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
4-Chloroaniline	ND	250	ug/Kg	10/17/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	10/17/12	DD	SW 8270
4-Nitroaniline	ND	580	ug/Kg	10/17/12	DD	SW 8270
4-Nitrophenol	ND	1000	ug/Kg	10/17/12	DD	SW 8270
Acenaphthene	400	250	ug/Kg	10/17/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acenaphthylene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Acetophenone	ND	250	ug/Kg	10/17/12	DD	SW 8270
Aniline	ND	1000	ug/Kg	10/17/12	DD	SW 8270
Anthracene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benz(a)anthracene	420	250	ug/Kg	10/17/12	DD	SW 8270
Benzidine	ND	430	ug/Kg	10/17/12	DD	SW 8270
Benzo(a)pyrene	430	250	ug/Kg	10/17/12	DD	SW 8270
Benzo(b)fluoranthene	580	250	ug/Kg	10/17/12	DD	SW 8270
Benzo(ghi)perylene	590	250	ug/Kg	10/17/12	DD	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benzoic acid	ND	1000	ug/Kg	10/17/12	DD	SW 8270
Benzyl butyl phthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	360	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	10/17/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	410	250	ug/Kg	10/17/12	DD	SW 8270
Carbazole	ND	540	ug/Kg	10/17/12	DD	SW 8270
Chrysene	470	250	ug/Kg	10/17/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Dibenzofuran	ND	250	ug/Kg	10/17/12	DD	SW 8270
Diethyl phthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Dimethylphthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Di-n-butylphthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Di-n-octylphthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Fluoranthene	810	250	ug/Kg	10/17/12	DD	SW 8270
Fluorene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobutadiene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachloroethane	ND	250	ug/Kg	10/17/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	300	250	ug/Kg	10/17/12	DD	SW 8270
Isophorone	ND	250	ug/Kg	10/17/12	DD	SW 8270
Naphthalene	1100	250	ug/Kg	10/17/12	DD	SW 8270
Nitrobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodimethylamine	ND	360	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	360	ug/Kg	10/17/12	DD	SW 8270
Pentachloronitrobenzene	ND	360	ug/Kg	10/17/12	DD	SW 8270
Pentachlorophenol	ND	360	ug/Kg	10/17/12	DD	SW 8270
Phenanthrene	380	250	ug/Kg	10/17/12	DD	SW 8270
Phenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
Pyrene	800	250	ug/Kg	10/17/12	DD	SW 8270
Pyridine	ND	360	ug/Kg	10/17/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	90		%	10/17/12	DD	30 - 130 %
% 2-Fluorobiphenyl	83		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	78		%	10/17/12	DD	30 - 130 %
% Nitrobenzene-d5	78		%	10/17/12	DD	40 - 140 %
% Phenol-d5	78		%	10/17/12	DD	30 - 130 %
% Terphenyl-d14	115		%	10/17/12	DD	40 - 140 %

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Project ID: 491 EAST 165TH ST.
Client ID: SB-1 0-2 FT

Phoenix I.D.: BC83695

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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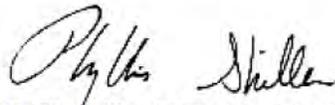
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

**Poor IS recovery was observed for volatiles due to matrix interference. Sample was analyzed twice with similar results.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: SOIL
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

10/15/12
 10/16/12

Time

10:20
 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83696

Project ID: 491 EAST 165TH ST.
 Client ID: SB-2 0-2 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	10/17/12	EK	SW6010
Aluminum	9820	56	mg/Kg	10/17/12	EK	SW6010
Arsenic	4.4	0.7	mg/Kg	10/17/12	EK	SW6010
Barium	1060	3.7	mg/Kg	10/17/12	EK	SW6010
Beryllium	0.32	0.30	mg/Kg	10/17/12	EK	SW6010
Calcium	7410	56	mg/Kg	10/17/12	EK	SW6010
Cadmium	1.95	0.37	mg/Kg	10/17/12	EK	SW6010
Cobalt	7.70	0.37	mg/Kg	10/17/12	EK	SW6010
Chromium	26.4	0.37	mg/Kg	10/17/12	EK	SW6010
Copper	43.6	0.37	mg/kg	10/17/12	EK	SW6010
Iron	18600	56	mg/Kg	10/17/12	EK	SW6010
Mercury	0.82	0.09	mg/Kg	10/17/12	RS	SW-7471
Potassium	828	56	mg/Kg	10/17/12	EK	SW6010
Magnesium	3890	56	mg/Kg	10/17/12	EK	SW6010
Manganese	354	3.7	mg/Kg	10/17/12	EK	SW6010
Sodium	141	5.6	mg/Kg	10/17/12	EK	SW6010
Nickel	20.0	0.37	mg/Kg	10/17/12	EK	SW6010
Lead	1120	3.7	mg/Kg	10/17/12	EK	SW6010
Antimony	< 5.0	5.0	mg/Kg	10/17/12	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	10/17/12	EK	SW6010
Thallium	< 0.6	0.6	mg/Kg	10/18/12	LK	SW6010
Vanadium	34.9	0.37	mg/Kg	10/17/12	EK	SW6010
Zinc	566	3.7	mg/Kg	10/17/12	EK	SW6010
Percent Solid	82		%	10/16/12	JL	E160.3
Soil Extraction for PCB	Completed			10/16/12	BB	SW3545
Soil Extraction for Pesticide	Completed			10/16/12	BBV	SW3545
Soil Extraction for SVOA	Completed			10/16/12	JJ/V	SW3545
Mercury Digestion	Completed			10/17/12	XX	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			10/16/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	400	ug/Kg	10/17/12	AW	SW 8082
PCB-1221	ND	400	ug/Kg	10/17/12	AW	SW 8082
PCB-1232	ND	400	ug/Kg	10/17/12	AW	SW 8082
PCB-1242	ND	400	ug/Kg	10/17/12	AW	SW 8082
PCB-1248	ND	400	ug/Kg	10/17/12	AW	SW 8082
PCB-1254	ND	400	ug/Kg	10/17/12	AW	SW 8082
PCB-1260	ND	400	ug/Kg	10/17/12	AW	SW 8082
PCB-1262	ND	400	ug/Kg	10/17/12	AW	SW 8082
PCB-1268	ND	400	ug/Kg	10/17/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	98		%	10/17/12	AW	30 - 150 %
% TCMX	79		%	10/17/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	38	ug/Kg	10/16/12	MH	SW8081
4,4' -DDE	ND	38	ug/Kg	10/16/12	MH	SW8081
4,4' -DDT	ND	38	ug/Kg	10/16/12	MH	SW8081
a-BHC	ND	19	ug/Kg	10/16/12	MH	SW8081
Alachlor	ND	19	ug/Kg	10/16/12	MH	SW8081
Aldrin	ND	5.9	ug/Kg	10/16/12	MH	SW8081
b-BHC	ND	19	ug/Kg	10/16/12	MH	SW8081
Chlordane	88	59	ug/Kg	10/16/12	MH	SW8081
d-BHC	ND	19	ug/Kg	10/16/12	MH	SW8081
Dieldrin	15	5.9	ug/Kg	10/16/12	MH	SW8081
Endosulfan I	ND	19	ug/Kg	10/16/12	MH	SW8081
Endosulfan II	ND	38	ug/Kg	10/16/12	MH	SW8081
Endosulfan sulfate	ND	38	ug/Kg	10/16/12	MH	SW8081
Endrin	ND	38	ug/Kg	10/16/12	MH	SW8081
Endrin aldehyde	ND	38	ug/Kg	10/16/12	MH	SW8081
Endrin ketone	ND	38	ug/Kg	10/16/12	MH	SW8081
g-BHC	ND	5.9	ug/Kg	10/16/12	MH	SW8081
Heptachlor	ND	12	ug/Kg	10/16/12	MH	SW8081
Heptachlor epoxide	ND	19	ug/Kg	10/16/12	MH	SW8081
Methoxychlor	ND	190	ug/Kg	10/16/12	MH	SW8081
Toxaphene	ND	190	ug/Kg	10/16/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	93		%	10/16/12	MH	30 - 150 %
% TCMX	92		%	10/16/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,1,1-Trichloroethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,1,2-Trichloroethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloroethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloroethene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloropropene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,2-Dibromoethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,2-Dichloroethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,2-Dichloropropane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,3-Dichlorobenzene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,3-Dichloropropane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
1,4-Dichlorobenzene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
2,2-Dichloropropane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
2-Chlorotoluene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
2-Hexanone	ND	30	ug/Kg	10/21/12	R/J	SW8260
2-Isopropyltoluene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260 1
4-Chlorotoluene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	10/21/12	R/J	SW8260
Acetone	ND	30	ug/Kg	10/21/12	R/J	SW8260
Acrylonitrile	ND	12	ug/Kg	10/21/12	R/J	SW8260
Benzene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Bromobenzene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Bromochloromethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Bromodichloromethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Bromoform	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Bromomethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Carbon Disulfide	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Carbon tetrachloride	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Chlorobenzene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Chloroethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Chloroform	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Chloromethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260 1
Dibromochloromethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Dibromomethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Dichlorodifluoromethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Ethylbenzene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Hexachlorobutadiene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260 1P
Isopropylbenzene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
m&p-Xylene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	10/21/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	10/21/12	R/J	SW8260
Methylene chloride	ND	12	ug/Kg	10/21/12	R/J	SW8260
Naphthalene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
n-Butylbenzene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
n-Propylbenzene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
o-Xylene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
p-Isopropyltoluene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
sec-Butylbenzene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
tert-Butylbenzene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Tetrachloroethene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	10/21/12	R/J	SW8260 1
Toluene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Total Xylenes	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	10/21/12	R/J	SW8260
Trichloroethene	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Trichlorofluoromethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Trichlorotrifluoroethane	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
Vinyl chloride	ND	6.1	ug/Kg	10/21/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	102		%	10/21/12	R/J	70 - 130 %
% Bromofluorobenzene	65		%	10/21/12	R/J	70 - 130 % 3
% Dibromofluoromethane	104		%	10/21/12	R/J	70 - 130 %
% Toluene-d8	96		%	10/21/12	R/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	10/17/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	280	ug/Kg	10/17/12	DD	SW 8270
1,2-Dichlorobenzene	ND	280	ug/Kg	10/17/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	400	ug/Kg	10/17/12	DD	SW 8270
1,3-Dichlorobenzene	ND	280	ug/Kg	10/17/12	DD	SW 8270
1,4-Dichlorobenzene	ND	280	ug/Kg	10/17/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	10/17/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	10/17/12	DD	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	10/17/12	DD	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrophenol	ND	640	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	10/17/12	DD	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	10/17/12	DD	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	10/17/12	DD	SW 8270
2-Chlorophenol	ND	280	ug/Kg	10/17/12	DD	SW 8270
2-Methylnaphthalene	750	280	ug/Kg	10/17/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	10/17/12	DD	SW 8270
2-Nitroaniline	ND	640	ug/Kg	10/17/12	DD	SW 8270
2-Nitrophenol	ND	280	ug/Kg	10/17/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	400	ug/Kg	10/17/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	280	ug/Kg	10/17/12	DD	SW 8270
3-Nitroaniline	ND	640	ug/Kg	10/17/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	10/17/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	400	ug/Kg	10/17/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	280	ug/Kg	10/17/12	DD	SW 8270
4-Chloroaniline	ND	280	ug/Kg	10/17/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	10/17/12	DD	SW 8270
4-Nitroaniline	ND	640	ug/Kg	10/17/12	DD	SW 8270
4-Nitrophenol	ND	1200	ug/Kg	10/17/12	DD	SW 8270
Acenaphthene	350	280	ug/Kg	10/17/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acenaphthylene	ND	280	ug/Kg	10/17/12	DD	SW 8270
Acetophenone	ND	280	ug/Kg	10/17/12	DD	SW 8270
Aniline	ND	1200	ug/Kg	10/17/12	DD	SW 8270
Anthracene	ND	280	ug/Kg	10/17/12	DD	SW 8270
Benz(a)anthracene	730	280	ug/Kg	10/17/12	DD	SW 8270
Benzidine	ND	480	ug/Kg	10/17/12	DD	SW 8270
Benzo(a)pyrene	730	280	ug/Kg	10/17/12	DD	SW 8270
Benzo(b)fluoranthene	970	280	ug/Kg	10/17/12	DD	SW 8270
Benzo(ghi)perylene	580	280	ug/Kg	10/17/12	DD	SW 8270
Benzo(k)fluoranthene	330	280	ug/Kg	10/17/12	DD	SW 8270
Benzoic acid	ND	1200	ug/Kg	10/17/12	DD	SW 8270
Benzyl butyl phthalate	ND	280	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	400	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	10/17/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	440	280	ug/Kg	10/17/12	DD	SW 8270
Carbazole	ND	600	ug/Kg	10/17/12	DD	SW 8270
Chrysene	840	280	ug/Kg	10/17/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	280	ug/Kg	10/17/12	DD	SW 8270
Dibenzofuran	ND	280	ug/Kg	10/17/12	DD	SW 8270
Diethyl phthalate	ND	280	ug/Kg	10/17/12	DD	SW 8270
Dimethylphthalate	ND	280	ug/Kg	10/17/12	DD	SW 8270
Di-n-butylphthalate	ND	280	ug/Kg	10/17/12	DD	SW 8270
Di-n-octylphthalate	ND	280	ug/Kg	10/17/12	DD	SW 8270
Fluoranthene	1500	280	ug/Kg	10/17/12	DD	SW 8270
Fluorene	ND	280	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobenzene	ND	280	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobutadiene	ND	280	ug/Kg	10/17/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	280	ug/Kg	10/17/12	DD	SW 8270
Hexachloroethane	ND	280	ug/Kg	10/17/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	480	280	ug/Kg	10/17/12	DD	SW 8270
Isophorone	ND	280	ug/Kg	10/17/12	DD	SW 8270
Naphthalene	1100	280	ug/Kg	10/17/12	DD	SW 8270
Nitrobenzene	ND	280	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodimethylamine	ND	400	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	400	ug/Kg	10/17/12	DD	SW 8270
Pentachloronitrobenzene	ND	400	ug/Kg	10/17/12	DD	SW 8270
Pentachlorophenol	ND	400	ug/Kg	10/17/12	DD	SW 8270
Phenanthrene	870	280	ug/Kg	10/17/12	DD	SW 8270
Phenol	ND	280	ug/Kg	10/17/12	DD	SW 8270
Pyrene	1400	280	ug/Kg	10/17/12	DD	SW 8270
Pyridine	ND	400	ug/Kg	10/17/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	86		%	10/17/12	DD	30 - 130 %
% 2-Fluorobiphenyl	79		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	76		%	10/17/12	DD	30 - 130 %
% Nitrobenzene-d5	77		%	10/17/12	DD	40 - 140 %
% Phenol-d5	76		%	10/17/12	DD	30 - 130 %
% Terphenyl-d14	93		%	10/17/12	DD	40 - 140 %

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Project ID: 491 EAST 165TH ST.
Client ID: SB-2 0-2 FT

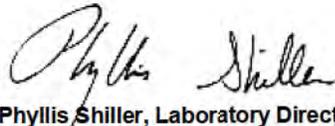
Phoenix I.D.: BC83696

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
10 = This parameter is not certified by NY NELAC for this matrix.
3 = This parameter exceeds laboratory specified limits.
B = Present in blank, no bias suspected.
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

**Surrogate recoveries as well as internal standard responses were outside control limits for volatiles due to matrix interference.
All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: SOIL
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

10/15/12
 10/16/12

Time

10:20
 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83697

Project ID: 491 EAST 165TH ST.
 Client ID: SB-2 15-16 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	10/17/12	EK	SW6010
Aluminum	8580	58	mg/Kg	10/17/12	EK	SW6010
Arsenic	1.4	0.8	mg/Kg	10/17/12	EK	SW6010
Barium	41.1	0.39	mg/Kg	10/17/12	EK	SW6010
Beryllium	< 0.31	0.31	mg/Kg	10/17/12	EK	SW6010
Calcium	5020	58	mg/Kg	10/17/12	EK	SW6010
Cadmium	0.85	0.39	mg/Kg	10/17/12	EK	SW6010
Cobalt	9.33	0.39	mg/Kg	10/17/12	EK	SW6010
Chromium	34.0	0.39	mg/Kg	10/17/12	EK	SW6010
Copper	46.2	0.39	mg/kg	10/17/12	EK	SW6010
Iron	20300	58	mg/Kg	10/17/12	EK	SW6010
Mercury	< 0.09	0.09	mg/Kg	10/17/12	RS	SW-7471
Potassium	1480	58	mg/Kg	10/17/12	EK	SW6010
Magnesium	6890	58	mg/Kg	10/17/12	EK	SW6010
Manganese	235	3.9	mg/Kg	10/17/12	EK	SW6010
Sodium	391	5.8	mg/Kg	10/17/12	EK	SW6010
Nickel	19.9	0.39	mg/Kg	10/17/12	EK	SW6010
Lead	13.9	0.39	mg/Kg	10/17/12	EK	SW6010
Antimony	< 3.9	3.9	mg/Kg	10/17/12	EK	SW6010
Selenium	< 1.6	1.6	mg/Kg	10/17/12	EK	SW6010
Thallium	< 0.6	0.6	mg/Kg	10/18/12	LK	SW6010
Vanadium	35.8	0.39	mg/Kg	10/17/12	EK	SW6010
Zinc	44.2	0.39	mg/Kg	10/17/12	EK	SW6010
Percent Solid	92		%	10/16/12	JL	E160.3
Soil Extraction for PCB	Completed			10/16/12	BB	SW3545
Soil Extraction for Pesticide	Completed			10/16/12	BBV	SW3545
Soil Extraction for SVOA	Completed			10/16/12	JJ/V	SW3545
Mercury Digestion	Completed			10/17/12	XX	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			10/16/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1221	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1232	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1242	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1248	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1254	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1260	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1262	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1268	ND	360	ug/Kg	10/17/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	92		%	10/17/12	AW	30 - 150 %
% TCMX	76		%	10/17/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	34	ug/Kg	10/16/12	MH	SW8081
4,4' -DDE	ND	34	ug/Kg	10/16/12	MH	SW8081
4,4' -DDT	ND	34	ug/Kg	10/16/12	MH	SW8081
a-BHC	ND	17	ug/Kg	10/16/12	MH	SW8081
Alachlor	ND	17	ug/Kg	10/16/12	MH	SW8081
Aldrin	ND	5.3	ug/Kg	10/16/12	MH	SW8081
b-BHC	ND	17	ug/Kg	10/16/12	MH	SW8081
Chlordane	ND	53	ug/Kg	10/16/12	MH	SW8081
d-BHC	ND	17	ug/Kg	10/16/12	MH	SW8081
Dieldrin	ND	5.3	ug/Kg	10/16/12	MH	SW8081
Endosulfan I	ND	17	ug/Kg	10/16/12	MH	SW8081
Endosulfan II	ND	34	ug/Kg	10/16/12	MH	SW8081
Endosulfan sulfate	ND	34	ug/Kg	10/16/12	MH	SW8081
Endrin	ND	34	ug/Kg	10/16/12	MH	SW8081
Endrin aldehyde	ND	34	ug/Kg	10/16/12	MH	SW8081
Endrin ketone	ND	34	ug/Kg	10/16/12	MH	SW8081
g-BHC	ND	5.3	ug/Kg	10/16/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	10/16/12	MH	SW8081
Heptachlor epoxide	ND	17	ug/Kg	10/16/12	MH	SW8081
Methoxychlor	ND	170	ug/Kg	10/16/12	MH	SW8081
Toxaphene	ND	170	ug/Kg	10/16/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	85		%	10/16/12	MH	30 - 150 %
% TCMX	88		%	10/16/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
2-Hexanone	ND	27	ug/Kg	10/19/12	R/J	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	10/19/12	R/J	SW8260
Acetone	ND	27	ug/Kg	10/19/12	R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	10/19/12	R/J	SW8260
Benzene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Bromobenzene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Bromochloromethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Bromodichloromethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Bromoform	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Bromomethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Carbon Disulfide	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Chlorobenzene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Chloroethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Chloroform	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Chloromethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260 1
Dibromochloromethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Dibromomethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Ethylbenzene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Hexachlorobutadiene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260 1P
Isopropylbenzene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
m&p-Xylene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	10/19/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	10/19/12	R/J	SW8260
Methylene chloride	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Naphthalene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
n-Butylbenzene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
n-Propylbenzene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
o-Xylene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
p-Isopropyltoluene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
sec-Butylbenzene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
tert-Butylbenzene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Tetrachloroethene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	10/19/12	R/J	SW8260
Toluene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Total Xylenes	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	10/19/12	R/J	SW8260
Trichloroethene	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
Vinyl chloride	ND	5.4	ug/Kg	10/19/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	106		%	10/19/12	R/J	70 - 130 %
% Bromofluorobenzene	95		%	10/19/12	R/J	70 - 130 %
% Dibromofluoromethane	119		%	10/19/12	R/J	70 - 130 %
% Toluene-d8	101		%	10/19/12	R/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,2-Dichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	360	ug/Kg	10/17/12	DD	SW 8270
1,3-Dichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,4-Dichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4-Dichlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4-Dimethylphenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrophenol	ND	570	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrotoluene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,6-Dinitrotoluene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Chloronaphthalene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Chlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Methylnaphthalene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Nitroaniline	ND	570	ug/Kg	10/17/12	DD	SW 8270
2-Nitrophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	10/17/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	250	ug/Kg	10/17/12	DD	SW 8270
3-Nitroaniline	ND	570	ug/Kg	10/17/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	10/17/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	360	ug/Kg	10/17/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
4-Chloroaniline	ND	250	ug/Kg	10/17/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	10/17/12	DD	SW 8270
4-Nitroaniline	ND	570	ug/Kg	10/17/12	DD	SW 8270
4-Nitrophenol	ND	1000	ug/Kg	10/17/12	DD	SW 8270
Acenaphthene	ND	250	ug/Kg	10/17/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acenaphthylene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Acetophenone	ND	250	ug/Kg	10/17/12	DD	SW 8270
Aniline	ND	1000	ug/Kg	10/17/12	DD	SW 8270
Anthracene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benzidine	ND	430	ug/Kg	10/17/12	DD	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benzoic acid	ND	1000	ug/Kg	10/17/12	DD	SW 8270
Benzyl butyl phthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	360	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	10/17/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	340	250	ug/Kg	10/17/12	DD	SW 8270
Carbazole	ND	540	ug/Kg	10/17/12	DD	SW 8270
Chrysene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Dibenzofuran	ND	250	ug/Kg	10/17/12	DD	SW 8270
Diethyl phthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Dimethylphthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Di-n-butylphthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Di-n-octylphthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Fluoranthene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Fluorene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobutadiene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachloroethane	ND	250	ug/Kg	10/17/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Isophorone	ND	250	ug/Kg	10/17/12	DD	SW 8270
Naphthalene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Nitrobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodimethylamine	ND	360	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	360	ug/Kg	10/17/12	DD	SW 8270
Pentachloronitrobenzene	ND	360	ug/Kg	10/17/12	DD	SW 8270
Pentachlorophenol	ND	360	ug/Kg	10/17/12	DD	SW 8270
Phenanthrene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Phenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
Pyrene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Pyridine	ND	360	ug/Kg	10/17/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	76		%	10/17/12	DD	30 - 130 %
% 2-Fluorobiphenyl	64		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	59		%	10/17/12	DD	30 - 130 %
% Nitrobenzene-d5	68		%	10/17/12	DD	40 - 140 %
% Phenol-d5	60		%	10/17/12	DD	30 - 130 %
% Terphenyl-d14	66		%	10/17/12	DD	40 - 140 %

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Project ID: 491 EAST 165TH ST.
Client ID: SB-2 15-16 FT

Phoenix I.D.: BC83697

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B = Present in blank, no bias suspected.

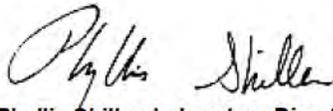
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: SOIL
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

10/15/12
 10/16/12

Time

11:15
 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83698

Project ID: 491 EAST 165TH ST.
 Client ID: SB-3 0-2 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	10/17/12	EK	SW6010
Aluminum	14100	61	mg/Kg	10/17/12	EK	SW6010
Arsenic	5.6	0.8	mg/Kg	10/17/12	EK	SW6010
Barium	260	4.1	mg/Kg	10/17/12	EK	SW6010
Beryllium	0.49	0.33	mg/Kg	10/17/12	EK	SW6010
Calcium	2810	61	mg/Kg	10/17/12	EK	SW6010
Cadmium	1.60	0.41	mg/Kg	10/17/12	EK	SW6010
Cobalt	7.99	0.41	mg/Kg	10/17/12	EK	SW6010
Chromium	26.8	0.41	mg/Kg	10/17/12	EK	SW6010
Copper	32.8	0.41	mg/kg	10/17/12	EK	SW6010
Iron	19100	61	mg/Kg	10/17/12	EK	SW6010
Mercury	0.93	0.08	mg/Kg	10/17/12	RS	SW-7471
Potassium	1130	61	mg/Kg	10/17/12	EK	SW6010
Magnesium	3360	61	mg/Kg	10/17/12	EK	SW6010
Manganese	467	4.1	mg/Kg	10/17/12	EK	SW6010
Sodium	125	6.1	mg/Kg	10/17/12	EK	SW6010
Nickel	17.0	0.41	mg/Kg	10/17/12	EK	SW6010
Lead	308	4.1	mg/Kg	10/17/12	EK	SW6010
Antimony	< 4.1	4.1	mg/Kg	10/17/12	EK	SW6010
Selenium	< 1.6	1.6	mg/Kg	10/17/12	EK	SW6010
Thallium	< 0.7	0.7	mg/Kg	10/18/12	LK	SW6010
Vanadium	33.6	0.41	mg/Kg	10/17/12	EK	SW6010
Zinc	440	4.1	mg/Kg	10/17/12	EK	SW6010
Percent Solid	85		%	10/16/12	JL	E160.3
Soil Extraction for PCB	Completed			10/16/12	BB	SW3545
Soil Extraction for Pesticide	Completed			10/16/12	BBV	SW3545
Soil Extraction for SVOA	Completed			10/16/12	JJ/V	SW3545
Mercury Digestion	Completed			10/17/12	XX	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			10/16/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	390	ug/Kg	10/17/12	AW	SW 8082
PCB-1221	ND	390	ug/Kg	10/17/12	AW	SW 8082
PCB-1232	ND	390	ug/Kg	10/17/12	AW	SW 8082
PCB-1242	ND	390	ug/Kg	10/17/12	AW	SW 8082
PCB-1248	ND	390	ug/Kg	10/17/12	AW	SW 8082
PCB-1254	ND	390	ug/Kg	10/17/12	AW	SW 8082
PCB-1260	ND	390	ug/Kg	10/17/12	AW	SW 8082
PCB-1262	ND	390	ug/Kg	10/17/12	AW	SW 8082
PCB-1268	ND	390	ug/Kg	10/17/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	92		%	10/17/12	AW	30 - 150 %
% TCMX	82		%	10/17/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	37	ug/Kg	10/16/12	MH	SW8081
4,4' -DDE	ND	37	ug/Kg	10/16/12	MH	SW8081
4,4' -DDT	ND	37	ug/Kg	10/16/12	MH	SW8081
a-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Alachlor	ND	18	ug/Kg	10/16/12	MH	SW8081
Aldrin	ND	5.8	ug/Kg	10/16/12	MH	SW8081
b-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Chlordane	ND	58	ug/Kg	10/16/12	MH	SW8081
d-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Dieldrin	ND	5.8	ug/Kg	10/16/12	MH	SW8081
Endosulfan I	ND	18	ug/Kg	10/16/12	MH	SW8081
Endosulfan II	ND	37	ug/Kg	10/16/12	MH	SW8081
Endosulfan sulfate	ND	37	ug/Kg	10/16/12	MH	SW8081
Endrin	ND	37	ug/Kg	10/16/12	MH	SW8081
Endrin aldehyde	ND	37	ug/Kg	10/16/12	MH	SW8081
Endrin ketone	ND	37	ug/Kg	10/16/12	MH	SW8081
g-BHC	ND	5.8	ug/Kg	10/16/12	MH	SW8081
Heptachlor	ND	12	ug/Kg	10/16/12	MH	SW8081
Heptachlor epoxide	ND	18	ug/Kg	10/16/12	MH	SW8081
Methoxychlor	ND	180	ug/Kg	10/16/12	MH	SW8081
Toxaphene	ND	180	ug/Kg	10/16/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	84		%	10/16/12	MH	30 - 150 %
% TCMX	92		%	10/16/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloroethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloroethene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloropropene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,2-Dibromoethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,2-Dichloroethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,2-Dichloropropane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,3-Dichloropropane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
2,2-Dichloropropane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
2-Chlorotoluene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
2-Hexanone	ND	29	ug/Kg	10/21/12	R/J	SW8260
2-Isopropyltoluene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	10/21/12	R/J	SW8260
Acetone	ND	29	ug/Kg	10/21/12	R/J	SW8260
Acrylonitrile	ND	12	ug/Kg	10/21/12	R/J	SW8260
Benzene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Bromobenzene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Bromochloromethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Bromodichloromethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Bromoform	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Bromomethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Carbon Disulfide	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Carbon tetrachloride	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Chlorobenzene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Chloroethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Chloroform	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Chloromethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260 1
Dibromochloromethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Dibromomethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Ethylbenzene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Hexachlorobutadiene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260 1P
Isopropylbenzene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
m&p-Xylene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Methyl Ethyl Ketone	ND	29	ug/Kg	10/21/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	10/21/12	R/J	SW8260
Methylene chloride	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Naphthalene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
n-Butylbenzene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
n-Propylbenzene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
o-Xylene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
p-Isopropyltoluene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
sec-Butylbenzene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
tert-Butylbenzene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Tetrachloroethene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	10/21/12	R/J	SW8260
Toluene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Total Xylenes	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	10/21/12	R/J	SW8260
Trichloroethene	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Trichlorofluoromethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
Vinyl chloride	ND	5.9	ug/Kg	10/21/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	105		%	10/21/12	R/J	70 - 130 %
% Bromofluorobenzene	70		%	10/21/12	R/J	70 - 130 %
% Dibromofluoromethane	104		%	10/21/12	R/J	70 - 130 %
% Toluene-d8	103		%	10/21/12	R/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	10/17/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	270	ug/Kg	10/17/12	DD	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	10/17/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	390	ug/Kg	10/17/12	DD	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	10/17/12	DD	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	10/17/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	10/17/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	10/17/12	DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	10/17/12	DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrophenol	ND	620	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	10/17/12	DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	10/17/12	DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	10/17/12	DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	10/17/12	DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	10/17/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	10/17/12	DD	SW 8270
2-Nitroaniline	ND	620	ug/Kg	10/17/12	DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	10/17/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	10/17/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	270	ug/Kg	10/17/12	DD	SW 8270
3-Nitroaniline	ND	620	ug/Kg	10/17/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	10/17/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	390	ug/Kg	10/17/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	270	ug/Kg	10/17/12	DD	SW 8270
4-Chloroaniline	ND	270	ug/Kg	10/17/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	10/17/12	DD	SW 8270
4-Nitroaniline	ND	620	ug/Kg	10/17/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	10/17/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acenaphthylene	460	270	ug/Kg	10/17/12	DD	SW 8270
Acetophenone	ND	270	ug/Kg	10/17/12	DD	SW 8270
Aniline	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Anthracene	410	270	ug/Kg	10/17/12	DD	SW 8270
Benz(a)anthracene	2600	270	ug/Kg	10/17/12	DD	SW 8270
Benzidine	ND	470	ug/Kg	10/17/12	DD	SW 8270
Benzo(a)pyrene	2400	270	ug/Kg	10/17/12	DD	SW 8270
Benzo(b)fluoranthene	4100	270	ug/Kg	10/17/12	DD	SW 8270
Benzo(ghi)perylene	970	270	ug/Kg	10/17/12	DD	SW 8270
Benzo(k)fluoranthene	1500	270	ug/Kg	10/17/12	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Benzyl butyl phthalate	ND	270	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	390	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	10/17/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	580	270	ug/Kg	10/17/12	DD	SW 8270
Carbazole	ND	590	ug/Kg	10/17/12	DD	SW 8270
Chrysene	3000	270	ug/Kg	10/17/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Dibenzofuran	ND	270	ug/Kg	10/17/12	DD	SW 8270
Diethyl phthalate	ND	270	ug/Kg	10/17/12	DD	SW 8270
Dimethylphthalate	ND	270	ug/Kg	10/17/12	DD	SW 8270
Di-n-butylphthalate	ND	270	ug/Kg	10/17/12	DD	SW 8270
Di-n-octylphthalate	ND	270	ug/Kg	10/17/12	DD	SW 8270
Fluoranthene	4500	270	ug/Kg	10/17/12	DD	SW 8270
Fluorene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobenzene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobutadiene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Hexachloroethane	ND	270	ug/Kg	10/17/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	950	270	ug/Kg	10/17/12	DD	SW 8270
Isophorone	ND	270	ug/Kg	10/17/12	DD	SW 8270
Naphthalene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Nitrobenzene	ND	270	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodimethylamine	ND	390	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	390	ug/Kg	10/17/12	DD	SW 8270
Pentachloronitrobenzene	ND	390	ug/Kg	10/17/12	DD	SW 8270
Pentachlorophenol	ND	390	ug/Kg	10/17/12	DD	SW 8270
Phenanthrene	2700	270	ug/Kg	10/17/12	DD	SW 8270
Phenol	ND	270	ug/Kg	10/17/12	DD	SW 8270
Pyrene	3800	270	ug/Kg	10/17/12	DD	SW 8270
Pyridine	ND	390	ug/Kg	10/17/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	81		%	10/17/12	DD	30 - 130 %
% 2-Fluorobiphenyl	76		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	66		%	10/17/12	DD	30 - 130 %
% Nitrobenzene-d5	79		%	10/17/12	DD	40 - 140 %
% Phenol-d5	68		%	10/17/12	DD	30 - 130 %
% Terphenyl-d14	64		%	10/17/12	DD	40 - 140 %

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Project ID: 491 EAST 165TH ST.
Client ID: SB-3 0-2 FT

Phoenix I.D.: BC83698

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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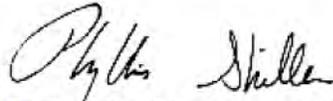
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

**Poor IS recovery was observed for volatiles due to matrix interference. Sample was analyzed twice with similar results.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: SOIL
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

10/15/12
 10/16/12

Time

11:15
 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83699

Project ID: 491 EAST 165TH ST.
 Client ID: SB-3 17-19 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	10/17/12	EK	SW6010
Aluminum	6910	57	mg/Kg	10/17/12	EK	SW6010
Arsenic	0.8	0.8	mg/Kg	10/17/12	EK	SW6010
Barium	63.0	0.38	mg/Kg	10/17/12	EK	SW6010
Beryllium	0.70	0.30	mg/Kg	10/17/12	EK	SW6010
Calcium	106000	57	mg/Kg	10/17/12	EK	SW6010
Cadmium	0.75	0.38	mg/Kg	10/17/12	EK	SW6010
Cobalt	5.53	0.38	mg/Kg	10/17/12	EK	SW6010
Chromium	13.8	0.38	mg/Kg	10/17/12	EK	SW6010
Copper	12.4	0.38	mg/kg	10/17/12	EK	SW6010
Iron	15200	57	mg/Kg	10/17/12	EK	SW6010
Mercury	< 0.07	0.07	mg/Kg	10/17/12	RS	SW-7471
Potassium	1960	57	mg/Kg	10/17/12	EK	SW6010
Magnesium	57500	57	mg/Kg	10/17/12	EK	SW6010
Manganese	617	3.8	mg/Kg	10/17/12	EK	SW6010
Sodium	210	5.7	mg/Kg	10/17/12	EK	SW6010
Nickel	9.49	0.38	mg/Kg	10/17/12	EK	SW6010
Lead	4.73	0.38	mg/Kg	10/17/12	EK	SW6010
Antimony	< 3.8	3.8	mg/Kg	10/17/12	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	10/17/12	EK	SW6010
Thallium	< 0.6	0.6	mg/Kg	10/17/12	LK	SW6010
Vanadium	19.9	0.38	mg/Kg	10/17/12	EK	SW6010
Zinc	43.9	0.38	mg/Kg	10/17/12	EK	SW6010
Percent Solid	90		%	10/16/12	JL	E160.3
Soil Extraction for PCB	Completed			10/16/12	BB	SW3545
Soil Extraction for Pesticide	Completed			10/16/12	BBV	SW3545
Soil Extraction for SVOA	Completed			10/16/12	JJ/V	SW3545
Mercury Digestion	Completed			10/17/12	XX	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			10/16/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1221	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1232	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1242	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1248	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1254	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1260	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1262	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1268	ND	360	ug/Kg	10/17/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	87		%	10/17/12	AW	30 - 150 %
% TCMX	75		%	10/17/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	35	ug/Kg	10/16/12	MH	SW8081
4,4' -DDE	ND	35	ug/Kg	10/16/12	MH	SW8081
4,4' -DDT	ND	35	ug/Kg	10/16/12	MH	SW8081
a-BHC	ND	17	ug/Kg	10/16/12	MH	SW8081
Alachlor	ND	17	ug/Kg	10/16/12	MH	SW8081
Aldrin	ND	5.4	ug/Kg	10/16/12	MH	SW8081
b-BHC	ND	17	ug/Kg	10/16/12	MH	SW8081
Chlordane	ND	54	ug/Kg	10/16/12	MH	SW8081
d-BHC	ND	17	ug/Kg	10/16/12	MH	SW8081
Dieldrin	ND	5.4	ug/Kg	10/16/12	MH	SW8081
Endosulfan I	ND	17	ug/Kg	10/16/12	MH	SW8081
Endosulfan II	ND	35	ug/Kg	10/16/12	MH	SW8081
Endosulfan sulfate	ND	35	ug/Kg	10/16/12	MH	SW8081
Endrin	ND	35	ug/Kg	10/16/12	MH	SW8081
Endrin aldehyde	ND	35	ug/Kg	10/16/12	MH	SW8081
Endrin ketone	ND	35	ug/Kg	10/16/12	MH	SW8081
g-BHC	ND	5.4	ug/Kg	10/16/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	10/16/12	MH	SW8081
Heptachlor epoxide	ND	17	ug/Kg	10/16/12	MH	SW8081
Methoxychlor	ND	170	ug/Kg	10/16/12	MH	SW8081
Toxaphene	ND	170	ug/Kg	10/16/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	80		%	10/16/12	MH	30 - 150 %
% TCMX	88		%	10/16/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
2-Hexanone	ND	28	ug/Kg	10/21/12	R/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	10/21/12	R/J	SW8260
Acetone	ND	28	ug/Kg	10/21/12	R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	10/21/12	R/J	SW8260
Benzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Bromobenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Bromochloromethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Bromodichloromethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Bromoform	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Bromomethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Chlorobenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Chloroethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Chloroform	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Chloromethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260 1
Dibromochloromethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Dibromomethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Ethylbenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Hexachlorobutadiene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260 1P
Isopropylbenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
m&p-Xylene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	10/21/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	10/21/12	R/J	SW8260
Methylene chloride	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Naphthalene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
n-Butylbenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
n-Propylbenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
o-Xylene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
p-Isopropyltoluene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
sec-Butylbenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
tert-Butylbenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	10/21/12	R/J	SW8260
Toluene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Total Xylenes	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	10/21/12	R/J	SW8260
Trichloroethene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Vinyl chloride	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	101		%	10/21/12	R/J	70 - 130 %
% Bromofluorobenzene	91		%	10/21/12	R/J	70 - 130 %
% Dibromofluoromethane	97		%	10/21/12	R/J	70 - 130 %
% Toluene-d8	109		%	10/21/12	R/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,2-Dichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	360	ug/Kg	10/17/12	DD	SW 8270
1,3-Dichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,4-Dichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4-Dichlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4-Dimethylphenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrophenol	ND	580	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrotoluene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,6-Dinitrotoluene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Chloronaphthalene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Chlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Methylnaphthalene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Nitroaniline	ND	580	ug/Kg	10/17/12	DD	SW 8270
2-Nitrophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	10/17/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	250	ug/Kg	10/17/12	DD	SW 8270
3-Nitroaniline	ND	580	ug/Kg	10/17/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	10/17/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	360	ug/Kg	10/17/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
4-Chloroaniline	ND	250	ug/Kg	10/17/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	10/17/12	DD	SW 8270
4-Nitroaniline	ND	580	ug/Kg	10/17/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Acenaphthene	ND	250	ug/Kg	10/17/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acenaphthylene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Acetophenone	ND	250	ug/Kg	10/17/12	DD	SW 8270
Aniline	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Anthracene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benzidine	ND	430	ug/Kg	10/17/12	DD	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Benzyl butyl phthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	360	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	10/17/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Carbazole	ND	540	ug/Kg	10/17/12	DD	SW 8270
Chrysene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Dibenzofuran	ND	250	ug/Kg	10/17/12	DD	SW 8270
Diethyl phthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Dimethylphthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Di-n-butylphthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Di-n-octylphthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Fluoranthene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Fluorene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobutadiene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachloroethane	ND	250	ug/Kg	10/17/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Isophorone	ND	250	ug/Kg	10/17/12	DD	SW 8270
Naphthalene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Nitrobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodimethylamine	ND	360	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	360	ug/Kg	10/17/12	DD	SW 8270
Pentachloronitrobenzene	ND	360	ug/Kg	10/17/12	DD	SW 8270
Pentachlorophenol	ND	360	ug/Kg	10/17/12	DD	SW 8270
Phenanthrene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Phenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
Pyrene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Pyridine	ND	360	ug/Kg	10/17/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	97		%	10/17/12	DD	30 - 130 %
% 2-Fluorobiphenyl	78		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	74		%	10/17/12	DD	30 - 130 %
% Nitrobenzene-d5	85		%	10/17/12	DD	40 - 140 %
% Phenol-d5	74		%	10/17/12	DD	30 - 130 %
% Terphenyl-d14	83		%	10/17/12	DD	40 - 140 %

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Project ID: 491 EAST 165TH ST.
Client ID: SB-3 17-19 FT

Phoenix I.D.: BC83699

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B = Present in blank, no bias suspected.

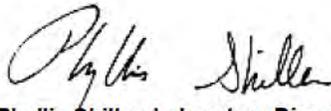
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report
 October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: SOIL
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

10/15/12
 10/16/12

Time

12:30
 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83700

Project ID: 491 EAST 165TH ST.
 Client ID: SB-4 0-2 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	10/17/12	EK	SW6010
Aluminum	5910	56	mg/Kg	10/17/12	EK	SW6010
Arsenic	4.8	0.7	mg/Kg	10/17/12	EK	SW6010
Barium	1440	3.7	mg/Kg	10/17/12	EK	SW6010
Beryllium	< 0.30	0.30	mg/Kg	10/17/12	EK	SW6010
Calcium	48700	56	mg/Kg	10/17/12	EK	SW6010
Cadmium	1.40	0.37	mg/Kg	10/17/12	EK	SW6010
Cobalt	4.74	0.37	mg/Kg	10/17/12	EK	SW6010
Chromium	17.6	0.37	mg/Kg	10/17/12	EK	SW6010
Copper	28.8	0.37	mg/kg	10/17/12	EK	SW6010
Iron	9040	56	mg/Kg	10/17/12	EK	SW6010
Mercury	0.25	0.10	mg/Kg	10/17/12	RS	SW-7471
Potassium	773	56	mg/Kg	10/17/12	EK	SW6010
Magnesium	3110	56	mg/Kg	10/17/12	EK	SW6010
Manganese	169	3.7	mg/Kg	10/17/12	EK	SW6010
Sodium	684	56	mg/Kg	10/17/12	EK	SW6010
Nickel	12.6	0.37	mg/Kg	10/17/12	EK	SW6010
Lead	384	3.7	mg/Kg	10/17/12	EK	SW6010
Antimony	< 3.7	3.7	mg/Kg	10/17/12	EK	SW6010
Selenium	2.0	1.5	mg/Kg	10/17/12	EK	SW6010
Thallium	< 0.6	0.6	mg/Kg	10/18/12	LK	SW6010
Vanadium	21.8	0.37	mg/Kg	10/17/12	EK	SW6010
Zinc	777	3.7	mg/Kg	10/17/12	EK	SW6010
Percent Solid	79		%	10/16/12	JL	E160.3
Soil Extraction for PCB	Completed			10/16/12	BB	SW3545
Soil Extraction for Pesticide	Completed			10/16/12	BBV	SW3545
Soil Extraction for SVOA	Completed			10/16/12	JJ/V	SW3545
Mercury Digestion	Completed			10/17/12	XX	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			10/16/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	420	ug/Kg	10/17/12	AW	SW 8082
PCB-1221	ND	420	ug/Kg	10/17/12	AW	SW 8082
PCB-1232	ND	420	ug/Kg	10/17/12	AW	SW 8082
PCB-1242	ND	420	ug/Kg	10/17/12	AW	SW 8082
PCB-1248	ND	420	ug/Kg	10/17/12	AW	SW 8082
PCB-1254	ND	420	ug/Kg	10/17/12	AW	SW 8082
PCB-1260	ND	420	ug/Kg	10/17/12	AW	SW 8082
PCB-1262	ND	420	ug/Kg	10/17/12	AW	SW 8082
PCB-1268	ND	420	ug/Kg	10/17/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	82		%	10/17/12	AW	30 - 150 %
% TCMX	64		%	10/17/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	83	40	ug/Kg	10/16/12	MH	SW8081
4,4' -DDE	ND	40	ug/Kg	10/16/12	MH	SW8081
4,4' -DDT	120	40	ug/Kg	10/16/12	MH	SW8081
a-BHC	ND	20	ug/Kg	10/16/12	MH	SW8081
Alachlor	ND	20	ug/Kg	10/16/12	MH	SW8081
Aldrin	ND	6.2	ug/Kg	10/16/12	MH	SW8081
b-BHC	ND	20	ug/Kg	10/16/12	MH	SW8081
Chlordane	200	62	ug/Kg	10/16/12	MH	SW8081
d-BHC	ND	20	ug/Kg	10/16/12	MH	SW8081
Dieldrin	27	6.2	ug/Kg	10/16/12	MH	SW8081
Endosulfan I	ND	20	ug/Kg	10/16/12	MH	SW8081
Endosulfan II	ND	40	ug/Kg	10/16/12	MH	SW8081
Endosulfan sulfate	ND	40	ug/Kg	10/16/12	MH	SW8081
Endrin	ND	40	ug/Kg	10/16/12	MH	SW8081
Endrin aldehyde	ND	40	ug/Kg	10/16/12	MH	SW8081
Endrin ketone	ND	40	ug/Kg	10/16/12	MH	SW8081
g-BHC	ND	6.2	ug/Kg	10/16/12	MH	SW8081
Heptachlor	ND	12	ug/Kg	10/16/12	MH	SW8081
Heptachlor epoxide	ND	20	ug/Kg	10/16/12	MH	SW8081
Methoxychlor	ND	200	ug/Kg	10/16/12	MH	SW8081
Toxaphene	ND	200	ug/Kg	10/16/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	77		%	10/16/12	MH	30 - 150 %
% TCMX	76		%	10/16/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,1,1-Trichloroethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,1,2-Trichloroethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloroethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloroethene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloropropene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,2-Dibromoethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,2-Dichloroethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,2-Dichloropropane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,3-Dichlorobenzene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,3-Dichloropropane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
1,4-Dichlorobenzene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
2,2-Dichloropropane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
2-Chlorotoluene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
2-Hexanone	ND	32	ug/Kg	10/21/12	R/J	SW8260
2-Isopropyltoluene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260 1
4-Chlorotoluene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
4-Methyl-2-pentanone	ND	32	ug/Kg	10/21/12	R/J	SW8260
Acetone	ND	90	ug/Kg	10/21/12	R/J	SW8260
Acrylonitrile	ND	13	ug/Kg	10/21/12	R/J	SW8260
Benzene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Bromobenzene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Bromochloromethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Bromodichloromethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Bromoform	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Bromomethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Carbon Disulfide	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Carbon tetrachloride	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Chlorobenzene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Chloroethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Chloroform	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Chloromethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260 1
Dibromochloromethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Dibromomethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Dichlorodifluoromethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Ethylbenzene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Hexachlorobutadiene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260 1P
Isopropylbenzene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
m&p-Xylene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Methyl Ethyl Ketone	ND	32	ug/Kg	10/21/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	10/21/12	R/J	SW8260
Methylene chloride	ND	13	ug/Kg	10/21/12	R/J	SW8260
Naphthalene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
n-Butylbenzene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
n-Propylbenzene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
o-Xylene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
p-Isopropyltoluene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
sec-Butylbenzene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
tert-Butylbenzene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Tetrachloroethene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	10/21/12	R/J	SW8260
Toluene	18	6.3	ug/Kg	10/21/12	R/J	SW8260
Total Xylenes	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	10/21/12	R/J	SW8260
Trichloroethene	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Trichlorofluoromethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Trichlorotrifluoroethane	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
Vinyl chloride	ND	6.3	ug/Kg	10/21/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	103		%	10/21/12	R/J	70 - 130 %
% Bromofluorobenzene	64		%	10/21/12	R/J	70 - 130 %
% Dibromofluoromethane	112		%	10/21/12	R/J	70 - 130 %
% Toluene-d8	94		%	10/21/12	R/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	590	ug/Kg	10/17/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	590	ug/Kg	10/17/12	DD	SW 8270
1,2-Dichlorobenzene	ND	590	ug/Kg	10/17/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	840	ug/Kg	10/17/12	DD	SW 8270
1,3-Dichlorobenzene	ND	590	ug/Kg	10/17/12	DD	SW 8270
1,4-Dichlorobenzene	ND	590	ug/Kg	10/17/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	590	ug/Kg	10/17/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	590	ug/Kg	10/17/12	DD	SW 8270
2,4-Dichlorophenol	ND	590	ug/Kg	10/17/12	DD	SW 8270
2,4-Dimethylphenol	ND	590	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrophenol	ND	1300	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrotoluene	ND	590	ug/Kg	10/17/12	DD	SW 8270
2,6-Dinitrotoluene	ND	590	ug/Kg	10/17/12	DD	SW 8270
2-Chloronaphthalene	ND	590	ug/Kg	10/17/12	DD	SW 8270
2-Chlorophenol	ND	590	ug/Kg	10/17/12	DD	SW 8270
2-Methylnaphthalene	ND	590	ug/Kg	10/17/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	590	ug/Kg	10/17/12	DD	SW 8270
2-Nitroaniline	ND	1300	ug/Kg	10/17/12	DD	SW 8270
2-Nitrophenol	ND	590	ug/Kg	10/17/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	840	ug/Kg	10/17/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	590	ug/Kg	10/17/12	DD	SW 8270
3-Nitroaniline	ND	1300	ug/Kg	10/17/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	2400	ug/Kg	10/17/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	840	ug/Kg	10/17/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	590	ug/Kg	10/17/12	DD	SW 8270
4-Chloroaniline	ND	590	ug/Kg	10/17/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	590	ug/Kg	10/17/12	DD	SW 8270
4-Nitroaniline	ND	1300	ug/Kg	10/17/12	DD	SW 8270
4-Nitrophenol	ND	2400	ug/Kg	10/17/12	DD	SW 8270
Acenaphthene	ND	590	ug/Kg	10/17/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acenaphthylene	2100	590	ug/Kg	10/17/12	DD	SW 8270
Acetophenone	ND	590	ug/Kg	10/17/12	DD	SW 8270
Aniline	ND	2400	ug/Kg	10/17/12	DD	SW 8270
Anthracene	1000	590	ug/Kg	10/17/12	DD	SW 8270
Benz(a)anthracene	6100	590	ug/Kg	10/17/12	DD	SW 8270
Benzidine	ND	1000	ug/Kg	10/17/12	DD	SW 8270
Benzo(a)pyrene	6300	590	ug/Kg	10/17/12	DD	SW 8270
Benzo(b)fluoranthene	10000	590	ug/Kg	10/17/12	DD	SW 8270
Benzo(ghi)perylene	3500	590	ug/Kg	10/17/12	DD	SW 8270
Benzo(k)fluoranthene	2500	590	ug/Kg	10/17/12	DD	SW 8270
Benzoic acid	ND	2400	ug/Kg	10/17/12	DD	SW 8270
Benzyl butyl phthalate	ND	590	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	590	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	840	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	590	ug/Kg	10/17/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	640	590	ug/Kg	10/17/12	DD	SW 8270
Carbazole	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Chrysene	7000	590	ug/Kg	10/17/12	DD	SW 8270
Dibenz(a,h)anthracene	900	590	ug/Kg	10/17/12	DD	SW 8270
Dibenzofuran	ND	590	ug/Kg	10/17/12	DD	SW 8270
Diethyl phthalate	ND	590	ug/Kg	10/17/12	DD	SW 8270
Dimethylphthalate	ND	590	ug/Kg	10/17/12	DD	SW 8270
Di-n-butylphthalate	ND	590	ug/Kg	10/17/12	DD	SW 8270
Di-n-octylphthalate	ND	590	ug/Kg	10/17/12	DD	SW 8270
Fluoranthene	8200	590	ug/Kg	10/17/12	DD	SW 8270
Fluorene	ND	590	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobenzene	ND	590	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobutadiene	ND	590	ug/Kg	10/17/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	590	ug/Kg	10/17/12	DD	SW 8270
Hexachloroethane	ND	590	ug/Kg	10/17/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	3100	590	ug/Kg	10/17/12	DD	SW 8270
Isophorone	ND	590	ug/Kg	10/17/12	DD	SW 8270
Naphthalene	ND	590	ug/Kg	10/17/12	DD	SW 8270
Nitrobenzene	ND	590	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodimethylamine	ND	840	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	590	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	840	ug/Kg	10/17/12	DD	SW 8270
Pentachloronitrobenzene	ND	840	ug/Kg	10/17/12	DD	SW 8270
Pentachlorophenol	ND	840	ug/Kg	10/17/12	DD	SW 8270
Phenanthrene	5400	590	ug/Kg	10/17/12	DD	SW 8270
Phenol	ND	590	ug/Kg	10/17/12	DD	SW 8270
Pyrene	7700	590	ug/Kg	10/17/12	DD	SW 8270
Pyridine	ND	840	ug/Kg	10/17/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	107		%	10/17/12	DD	30 - 130 %
% 2-Fluorobiphenyl	81		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	81		%	10/17/12	DD	30 - 130 %
% Nitrobenzene-d5	94		%	10/17/12	DD	40 - 140 %
% Phenol-d5	83		%	10/17/12	DD	30 - 130 %
% Terphenyl-d14	71		%	10/17/12	DD	40 - 140 %

10

Project ID: 491 EAST 165TH ST.
Client ID: SB-4 0-2 FT

Phoenix I.D.: BC83700

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
10 = This parameter is not certified by NY NELAC for this matrix.
3 = This parameter exceeds laboratory specified limits.
B = Present in blank, no bias suspected.
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

**Surrogate recoveries as well as internal standard responses were outside control limits for volatiles due to matrix interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 24, 2012
Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: SOIL
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

10/15/12
 10/16/12

Time

12:30
 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83701

Project ID: 491 EAST 165TH ST.
 Client ID: SB-4 17-19 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	10/17/12	EK	SW6010
Aluminum	4030	54	mg/Kg	10/17/12	EK	SW6010
Arsenic	< 0.7	0.7	mg/Kg	10/17/12	EK	SW6010
Barium	24.5	0.36	mg/Kg	10/17/12	EK	SW6010
Beryllium	< 0.29	0.29	mg/Kg	10/17/12	EK	SW6010
Calcium	3010	5.4	mg/Kg	10/17/12	EK	SW6010
Cadmium	< 0.36	0.36	mg/Kg	10/17/12	EK	SW6010
Cobalt	4.04	0.36	mg/Kg	10/17/12	EK	SW6010
Chromium	11.0	0.36	mg/Kg	10/17/12	EK	SW6010
Copper	13.6	0.36	mg/kg	10/17/12	EK	SW6010
Iron	8500	54	mg/Kg	10/17/12	EK	SW6010
Mercury	< 0.08	0.08	mg/Kg	10/17/12	RS	SW-7471
Potassium	1320	5.4	mg/Kg	10/17/12	EK	SW6010
Magnesium	3490	54	mg/Kg	10/17/12	EK	SW6010
Manganese	186	3.6	mg/Kg	10/17/12	EK	SW6010
Sodium	265	5.4	mg/Kg	10/17/12	EK	SW6010
Nickel	9.55	0.36	mg/Kg	10/17/12	EK	SW6010
Lead	2.78	0.36	mg/Kg	10/17/12	EK	SW6010
Antimony	< 3.6	3.6	mg/Kg	10/17/12	EK	SW6010
Selenium	1.5	1.4	mg/Kg	10/17/12	EK	SW6010
Thallium	< 0.6	0.6	mg/Kg	10/17/12	LK	SW6010
Vanadium	18.4	0.36	mg/Kg	10/17/12	EK	SW6010
Zinc	16.5	0.36	mg/Kg	10/17/12	EK	SW6010
Percent Solid	90		%	10/16/12	JL	E160.3
Soil Extraction for PCB	Completed			10/16/12	BB	SW3545
Soil Extraction for Pesticide	Completed			10/16/12	BBV	SW3545
Soil Extraction for SVOA	Completed			10/16/12	JJ/V	SW3545
Mercury Digestion	Completed			10/17/12	XX	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			10/16/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1221	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1232	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1242	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1248	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1254	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1260	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1262	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1268	ND	370	ug/Kg	10/17/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	84		%	10/17/12	AW	30 - 150 %
% TCMX	78		%	10/17/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	35	ug/Kg	10/16/12	MH	SW8081
4,4' -DDE	ND	35	ug/Kg	10/16/12	MH	SW8081
4,4' -DDT	ND	35	ug/Kg	10/16/12	MH	SW8081
a-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Alachlor	ND	18	ug/Kg	10/16/12	MH	SW8081
Aldrin	ND	5.5	ug/Kg	10/16/12	MH	SW8081
b-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Chlordane	ND	55	ug/Kg	10/16/12	MH	SW8081
d-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Dieldrin	ND	5.5	ug/Kg	10/16/12	MH	SW8081
Endosulfan I	ND	18	ug/Kg	10/16/12	MH	SW8081
Endosulfan II	ND	35	ug/Kg	10/16/12	MH	SW8081
Endosulfan sulfate	ND	35	ug/Kg	10/16/12	MH	SW8081
Endrin	ND	35	ug/Kg	10/16/12	MH	SW8081
Endrin aldehyde	ND	35	ug/Kg	10/16/12	MH	SW8081
Endrin ketone	ND	35	ug/Kg	10/16/12	MH	SW8081
g-BHC	ND	5.5	ug/Kg	10/16/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	10/16/12	MH	SW8081
Heptachlor epoxide	ND	18	ug/Kg	10/16/12	MH	SW8081
Methoxychlor	ND	180	ug/Kg	10/16/12	MH	SW8081
Toxaphene	ND	180	ug/Kg	10/16/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	78		%	10/16/12	MH	30 - 150 %
% TCMX	87		%	10/16/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
2-Hexanone	ND	28	ug/Kg	10/18/12	H/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260 1
4-Chlorotoluene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	10/18/12	H/J	SW8260
Acetone	ND	28	ug/Kg	10/18/12	H/J	SW8260
Acrylonitrile	ND	11	ug/Kg	10/18/12	H/J	SW8260
Benzene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Bromobenzene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Bromochloromethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Bromodichloromethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Bromoform	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Bromomethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Chlorobenzene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Chloroethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Chloroform	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Chloromethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260 1
Dibromochloromethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Dibromomethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Ethylbenzene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Hexachlorobutadiene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260 1P
Isopropylbenzene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
m&p-Xylene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	10/18/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	10/18/12	H/J	SW8260
Methylene chloride	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Naphthalene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
n-Butylbenzene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
n-Propylbenzene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
o-Xylene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
p-Isopropyltoluene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
sec-Butylbenzene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
tert-Butylbenzene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	10/18/12	H/J	SW8260
Toluene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Total Xylenes	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	10/18/12	H/J	SW8260
Trichloroethene	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
Vinyl chloride	ND	5.6	ug/Kg	10/18/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	98		%	10/18/12	H/J	70 - 130 %
% Bromofluorobenzene	98		%	10/18/12	H/J	70 - 130 %
% Dibromofluoromethane	99		%	10/18/12	H/J	70 - 130 %
% Toluene-d8	99		%	10/18/12	H/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	370	ug/Kg	10/17/12	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrophenol	ND	590	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Nitroaniline	ND	590	ug/Kg	10/17/12	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	10/17/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	10/17/12	DD	SW 8270
3-Nitroaniline	ND	590	ug/Kg	10/17/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	10/17/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	10/17/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	10/17/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	10/17/12	DD	SW 8270
4-Nitroaniline	ND	590	ug/Kg	10/17/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	10/17/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acenaphthylene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Acetophenone	ND	260	ug/Kg	10/17/12	DD	SW 8270
Aniline	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Anthracene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benzidine	ND	440	ug/Kg	10/17/12	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Benzyl butyl phthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	370	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	10/17/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Carbazole	ND	550	ug/Kg	10/17/12	DD	SW 8270
Chrysene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Dibenzofuran	ND	260	ug/Kg	10/17/12	DD	SW 8270
Diethyl phthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Dimethylphthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Fluorene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Hexachloroethane	ND	260	ug/Kg	10/17/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Isophorone	ND	260	ug/Kg	10/17/12	DD	SW 8270
Naphthalene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Nitrobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodimethylamine	ND	370	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	370	ug/Kg	10/17/12	DD	SW 8270
Pentachloronitrobenzene	ND	370	ug/Kg	10/17/12	DD	SW 8270
Pentachlorophenol	ND	370	ug/Kg	10/17/12	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Phenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
Pyrene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Pyridine	ND	370	ug/Kg	10/17/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	95		%	10/17/12	DD	30 - 130 %
% 2-Fluorobiphenyl	79		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	80		%	10/17/12	DD	30 - 130 %
% Nitrobenzene-d5	83		%	10/17/12	DD	40 - 140 %
% Phenol-d5	82		%	10/17/12	DD	30 - 130 %
% Terphenyl-d14	89		%	10/17/12	DD	40 - 140 %

10

Project ID: 491 EAST 165TH ST.
Client ID: SB-4 17-19 FT

Phoenix I.D.: BC83701

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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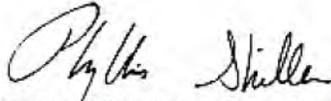
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: SOIL
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

10/15/12
 10/16/12

Time

13:30
 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83702

Project ID: 491 EAST 165TH ST.
 Client ID: SB-5 0-2 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	10/17/12	EK	SW6010
Aluminum	5160	55	mg/Kg	10/17/12	EK	SW6010
Arsenic	2.2	0.7	mg/Kg	10/17/12	EK	SW6010
Barium	173	0.37	mg/Kg	10/17/12	EK	SW6010
Beryllium	< 0.29	0.29	mg/Kg	10/17/12	EK	SW6010
Calcium	4110	5.5	mg/Kg	10/17/12	EK	SW6010
Cadmium	0.68	0.37	mg/Kg	10/17/12	EK	SW6010
Cobalt	4.03	0.37	mg/Kg	10/17/12	EK	SW6010
Chromium	18.8	0.37	mg/Kg	10/17/12	EK	SW6010
Copper	21.8	0.37	mg/kg	10/17/12	EK	SW6010
Iron	15600	55	mg/Kg	10/17/12	EK	SW6010
Mercury	0.38	0.06	mg/Kg	10/17/12	RS	SW-7471
Potassium	653	5.5	mg/Kg	10/17/12	EK	SW6010
Magnesium	1990	55	mg/Kg	10/17/12	EK	SW6010
Manganese	375	3.7	mg/Kg	10/17/12	EK	SW6010
Sodium	85.7	5.5	mg/Kg	10/17/12	EK	SW6010
Nickel	10.4	0.37	mg/Kg	10/17/12	EK	SW6010
Lead	120	0.37	mg/Kg	10/17/12	EK	SW6010
Antimony	< 3.7	3.7	mg/Kg	10/17/12	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	10/17/12	EK	SW6010
Thallium	< 0.6	0.6	mg/Kg	10/17/12	LK	SW6010
Vanadium	18.6	0.37	mg/Kg	10/17/12	EK	SW6010
Zinc	122	0.37	mg/Kg	10/17/12	EK	SW6010
Percent Solid	92		%	10/16/12	JL	E160.3
Soil Extraction for PCB	Completed			10/16/12	BB	SW3545
Soil Extraction for Pesticide	Completed			10/16/12	BBV	SW3545
Soil Extraction for SVOA	Completed			10/16/12	JJ/V	SW3545
Mercury Digestion	Completed			10/17/12	XX	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			10/16/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1221	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1232	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1242	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1248	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1254	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1260	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1262	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1268	ND	360	ug/Kg	10/17/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	43		%	10/17/12	AW	30 - 150 %
% TCMX	40		%	10/17/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	34	ug/Kg	10/16/12	MH	SW8081
4,4' -DDE	ND	34	ug/Kg	10/16/12	MH	SW8081
4,4' -DDT	38	34	ug/Kg	10/16/12	MH	SW8081
a-BHC	ND	17	ug/Kg	10/16/12	MH	SW8081
Alachlor	ND	17	ug/Kg	10/16/12	MH	SW8081
Aldrin	ND	5.3	ug/Kg	10/16/12	MH	SW8081
b-BHC	ND	17	ug/Kg	10/16/12	MH	SW8081
Chlordane	ND	53	ug/Kg	10/16/12	MH	SW8081
d-BHC	ND	17	ug/Kg	10/16/12	MH	SW8081
Dieldrin	ND	5.3	ug/Kg	10/16/12	MH	SW8081
Endosulfan I	ND	17	ug/Kg	10/16/12	MH	SW8081
Endosulfan II	ND	34	ug/Kg	10/16/12	MH	SW8081
Endosulfan sulfate	ND	34	ug/Kg	10/16/12	MH	SW8081
Endrin	ND	34	ug/Kg	10/16/12	MH	SW8081
Endrin aldehyde	ND	34	ug/Kg	10/16/12	MH	SW8081
Endrin ketone	ND	34	ug/Kg	10/16/12	MH	SW8081
g-BHC	ND	5.3	ug/Kg	10/16/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	10/16/12	MH	SW8081
Heptachlor epoxide	ND	17	ug/Kg	10/16/12	MH	SW8081
Methoxychlor	ND	170	ug/Kg	10/16/12	MH	SW8081
Toxaphene	ND	170	ug/Kg	10/16/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	40		%	10/16/12	MH	30 - 150 %
% TCMX	44		%	10/16/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
2-Hexanone	ND	27	ug/Kg	10/19/12	H/J	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260 1
4-Chlorotoluene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	10/19/12	H/J	SW8260
Acetone	ND	27	ug/Kg	10/19/12	H/J	SW8260
Acrylonitrile	ND	11	ug/Kg	10/19/12	H/J	SW8260
Benzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Bromobenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Bromochloromethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Bromodichloromethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Bromoform	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Bromomethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Carbon Disulfide	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Chlorobenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Chloroethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Chloroform	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Chloromethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260 1
Dibromochloromethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Dibromomethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Ethylbenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Hexachlorobutadiene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260 1P
Isopropylbenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
m&p-Xylene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	10/19/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	10/19/12	H/J	SW8260
Methylene chloride	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Naphthalene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
n-Butylbenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
n-Propylbenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
o-Xylene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
p-Isopropyltoluene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
sec-Butylbenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
tert-Butylbenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Tetrachloroethene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	10/19/12	H/J	SW8260
Toluene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Total Xylenes	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	10/19/12	H/J	SW8260
Trichloroethene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Vinyl chloride	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	101		%	10/19/12	H/J	70 - 130 %
% Bromofluorobenzene	89		%	10/19/12	H/J	70 - 130 %
% Dibromofluoromethane	97		%	10/19/12	H/J	70 - 130 %
% Toluene-d8	97		%	10/19/12	H/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,2-Dichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	360	ug/Kg	10/17/12	DD	SW 8270
1,3-Dichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,4-Dichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4-Dichlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4-Dimethylphenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrophenol	ND	580	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrotoluene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,6-Dinitrotoluene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Chloronaphthalene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Chlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Methylnaphthalene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Nitroaniline	ND	580	ug/Kg	10/17/12	DD	SW 8270
2-Nitrophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	10/17/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	250	ug/Kg	10/17/12	DD	SW 8270
3-Nitroaniline	ND	580	ug/Kg	10/17/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	10/17/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	360	ug/Kg	10/17/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
4-Chloroaniline	ND	250	ug/Kg	10/17/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	10/17/12	DD	SW 8270
4-Nitroaniline	ND	580	ug/Kg	10/17/12	DD	SW 8270
4-Nitrophenol	ND	1000	ug/Kg	10/17/12	DD	SW 8270
Acenaphthene	ND	250	ug/Kg	10/17/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acenaphthylene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Acetophenone	ND	250	ug/Kg	10/17/12	DD	SW 8270
Aniline	ND	1000	ug/Kg	10/17/12	DD	SW 8270
Anthracene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benz(a)anthracene	900	250	ug/Kg	10/17/12	DD	SW 8270
Benzidine	ND	430	ug/Kg	10/17/12	DD	SW 8270
Benzo(a)pyrene	820	250	ug/Kg	10/17/12	DD	SW 8270
Benzo(b)fluoranthene	1000	250	ug/Kg	10/17/12	DD	SW 8270
Benzo(ghi)perylene	700	250	ug/Kg	10/17/12	DD	SW 8270
Benzo(k)fluoranthene	350	250	ug/Kg	10/17/12	DD	SW 8270
Benzoic acid	ND	1000	ug/Kg	10/17/12	DD	SW 8270
Benzyl butyl phthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	360	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	10/17/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	270	250	ug/Kg	10/17/12	DD	SW 8270
Carbazole	ND	540	ug/Kg	10/17/12	DD	SW 8270
Chrysene	890	250	ug/Kg	10/17/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Dibenzofuran	ND	250	ug/Kg	10/17/12	DD	SW 8270
Diethyl phthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Dimethylphthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Di-n-butylphthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Di-n-octylphthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Fluoranthene	1800	250	ug/Kg	10/17/12	DD	SW 8270
Fluorene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobutadiene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachloroethane	ND	250	ug/Kg	10/17/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	500	250	ug/Kg	10/17/12	DD	SW 8270
Isophorone	ND	250	ug/Kg	10/17/12	DD	SW 8270
Naphthalene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Nitrobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodimethylamine	ND	360	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	360	ug/Kg	10/17/12	DD	SW 8270
Pentachloronitrobenzene	ND	360	ug/Kg	10/17/12	DD	SW 8270
Pentachlorophenol	ND	360	ug/Kg	10/17/12	DD	SW 8270
Phenanthrene	940	250	ug/Kg	10/17/12	DD	SW 8270
Phenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
Pyrene	1800	250	ug/Kg	10/17/12	DD	SW 8270
Pyridine	ND	360	ug/Kg	10/17/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	102		%	10/17/12	DD	30 - 130 %
% 2-Fluorobiphenyl	85		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	84		%	10/17/12	DD	30 - 130 %
% Nitrobenzene-d5	87		%	10/17/12	DD	40 - 140 %
% Phenol-d5	87		%	10/17/12	DD	30 - 130 %
% Terphenyl-d14	103		%	10/17/12	DD	40 - 140 %

10

Project ID: 491 EAST 165TH ST.
Client ID: SB-5 0-2 FT

Phoenix I.D.: BC83702

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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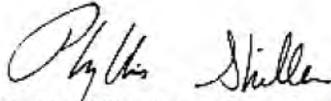
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report
 October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: SOIL
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

10/15/12
 10/16/12

Time

13:30
 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83703

Project ID: 491 EAST 165TH ST.
 Client ID: SB-5 17-19 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	10/17/12	EK	SW6010
Aluminum	9460	55	mg/Kg	10/17/12	EK	SW6010
Arsenic	1.5	0.7	mg/Kg	10/17/12	EK	SW6010
Barium	36.1	0.37	mg/Kg	10/17/12	EK	SW6010
Beryllium	< 0.29	0.29	mg/Kg	10/17/12	EK	SW6010
Calcium	125000	55	mg/Kg	10/17/12	EK	SW6010
Cadmium	0.57	0.37	mg/Kg	10/17/12	EK	SW6010
Cobalt	3.82	0.37	mg/Kg	10/17/12	EK	SW6010
Chromium	17.9	0.37	mg/Kg	10/17/12	EK	SW6010
Copper	11.0	0.37	mg/kg	10/17/12	EK	SW6010
Iron	10000	55	mg/Kg	10/17/12	EK	SW6010
Mercury	< 0.08	0.08	mg/Kg	10/17/12	RS	SW-7471
Potassium	1330	5.5	mg/Kg	10/17/12	EK	SW6010
Magnesium	94000	550	mg/Kg	10/18/12	LK	SW6010
Manganese	254	3.7	mg/Kg	10/17/12	EK	SW6010
Sodium	693	5.5	mg/Kg	10/17/12	EK	SW6010
Nickel	5.16	0.37	mg/Kg	10/17/12	EK	SW6010
Lead	2.10	0.37	mg/Kg	10/17/12	EK	SW6010
Antimony	< 3.7	3.7	mg/Kg	10/17/12	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	10/17/12	EK	SW6010
Thallium	< 0.6	0.6	mg/Kg	10/17/12	LK	SW6010
Vanadium	24.4	0.37	mg/Kg	10/17/12	EK	SW6010
Zinc	18.7	0.37	mg/Kg	10/17/12	EK	SW6010
Percent Solid	86		%	10/16/12	JL	E160.3
Soil Extraction for PCB	Completed			10/16/12	BB	SW3545
Soil Extraction for Pesticide	Completed			10/16/12	BBV	SW3545
Soil Extraction for SVOA	Completed			10/16/12	JJ/V	SW3545
Mercury Digestion	Completed			10/17/12	XX	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			10/16/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	380	ug/Kg	10/17/12	AW	SW 8082
PCB-1221	ND	380	ug/Kg	10/17/12	AW	SW 8082
PCB-1232	ND	380	ug/Kg	10/17/12	AW	SW 8082
PCB-1242	ND	380	ug/Kg	10/17/12	AW	SW 8082
PCB-1248	ND	380	ug/Kg	10/17/12	AW	SW 8082
PCB-1254	ND	380	ug/Kg	10/17/12	AW	SW 8082
PCB-1260	ND	380	ug/Kg	10/17/12	AW	SW 8082
PCB-1262	ND	380	ug/Kg	10/17/12	AW	SW 8082
PCB-1268	ND	380	ug/Kg	10/17/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	93		%	10/17/12	AW	30 - 150 %
% TCMX	84		%	10/17/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	36	ug/Kg	10/16/12	MH	SW8081
4,4' -DDE	ND	36	ug/Kg	10/16/12	MH	SW8081
4,4' -DDT	ND	36	ug/Kg	10/16/12	MH	SW8081
a-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Alachlor	ND	18	ug/Kg	10/16/12	MH	SW8081
Aldrin	ND	5.6	ug/Kg	10/16/12	MH	SW8081
b-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Chlordane	ND	56	ug/Kg	10/16/12	MH	SW8081
d-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Dieldrin	ND	5.6	ug/Kg	10/16/12	MH	SW8081
Endosulfan I	ND	18	ug/Kg	10/16/12	MH	SW8081
Endosulfan II	ND	36	ug/Kg	10/16/12	MH	SW8081
Endosulfan sulfate	ND	36	ug/Kg	10/16/12	MH	SW8081
Endrin	ND	36	ug/Kg	10/16/12	MH	SW8081
Endrin aldehyde	ND	36	ug/Kg	10/16/12	MH	SW8081
Endrin ketone	ND	36	ug/Kg	10/16/12	MH	SW8081
g-BHC	ND	5.6	ug/Kg	10/16/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	10/16/12	MH	SW8081
Heptachlor epoxide	ND	18	ug/Kg	10/16/12	MH	SW8081
Methoxychlor	ND	180	ug/Kg	10/16/12	MH	SW8081
Toxaphene	ND	180	ug/Kg	10/16/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	104		%	10/16/12	MH	30 - 150 %
% TCMX	103		%	10/16/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,1,1-Trichloroethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,1,2-Trichloroethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloroethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloroethene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloropropene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,2-Dibromoethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,2-Dichloroethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,2-Dichloropropane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,3-Dichlorobenzene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,3-Dichloropropane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
1,4-Dichlorobenzene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
2,2-Dichloropropane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
2-Chlorotoluene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
2-Hexanone	ND	29	ug/Kg	10/19/12	H/J	SW8260
2-Isopropyltoluene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260 1
4-Chlorotoluene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	10/19/12	H/J	SW8260
Acetone	ND	29	ug/Kg	10/19/12	H/J	SW8260
Acrylonitrile	ND	12	ug/Kg	10/19/12	H/J	SW8260
Benzene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Bromobenzene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Bromochloromethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Bromodichloromethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Bromoform	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Bromomethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Carbon Disulfide	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Carbon tetrachloride	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Chlorobenzene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Chloroethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Chloroform	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Chloromethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260 1
Dibromochloromethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Dibromomethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Dichlorodifluoromethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Ethylbenzene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Hexachlorobutadiene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260 1P
Isopropylbenzene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
m&p-Xylene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Methyl Ethyl Ketone	ND	29	ug/Kg	10/19/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	10/19/12	H/J	SW8260
Methylene chloride	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Naphthalene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
n-Butylbenzene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
n-Propylbenzene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
o-Xylene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
p-Isopropyltoluene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
sec-Butylbenzene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
tert-Butylbenzene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Tetrachloroethene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	10/19/12	H/J	SW8260
Toluene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Total Xylenes	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	10/19/12	H/J	SW8260
Trichloroethene	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Trichlorofluoromethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Trichlorotrifluoroethane	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
Vinyl chloride	ND	5.8	ug/Kg	10/19/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	99		%	10/19/12	H/J	70 - 130 %
% Bromofluorobenzene	96		%	10/19/12	H/J	70 - 130 %
% Dibromofluoromethane	101		%	10/19/12	H/J	70 - 130 %
% Toluene-d8	101		%	10/19/12	H/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	10/17/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	270	ug/Kg	10/17/12	DD	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	10/17/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	380	ug/Kg	10/17/12	DD	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	10/17/12	DD	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	10/17/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	10/17/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	10/17/12	DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	10/17/12	DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrophenol	ND	610	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	10/17/12	DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	10/17/12	DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	10/17/12	DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	10/17/12	DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	10/17/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	10/17/12	DD	SW 8270
2-Nitroaniline	ND	610	ug/Kg	10/17/12	DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	10/17/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	10/17/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	270	ug/Kg	10/17/12	DD	SW 8270
3-Nitroaniline	ND	610	ug/Kg	10/17/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	10/17/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	380	ug/Kg	10/17/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	270	ug/Kg	10/17/12	DD	SW 8270
4-Chloroaniline	ND	270	ug/Kg	10/17/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	10/17/12	DD	SW 8270
4-Nitroaniline	ND	610	ug/Kg	10/17/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	10/17/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acenaphthylene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Acetophenone	ND	270	ug/Kg	10/17/12	DD	SW 8270
Aniline	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Anthracene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Benz(a)anthracene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Benzidine	ND	460	ug/Kg	10/17/12	DD	SW 8270
Benzo(a)pyrene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Benzo(b)fluoranthene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Benzyl butyl phthalate	ND	270	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	380	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	10/17/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	10/17/12	DD	SW 8270
Carbazole	ND	570	ug/Kg	10/17/12	DD	SW 8270
Chrysene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Dibenzofuran	ND	270	ug/Kg	10/17/12	DD	SW 8270
Diethyl phthalate	ND	270	ug/Kg	10/17/12	DD	SW 8270
Dimethylphthalate	ND	270	ug/Kg	10/17/12	DD	SW 8270
Di-n-butylphthalate	ND	270	ug/Kg	10/17/12	DD	SW 8270
Di-n-octylphthalate	ND	270	ug/Kg	10/17/12	DD	SW 8270
Fluoranthene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Fluorene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobenzene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobutadiene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Hexachloroethane	ND	270	ug/Kg	10/17/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Isophorone	ND	270	ug/Kg	10/17/12	DD	SW 8270
Naphthalene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Nitrobenzene	ND	270	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodimethylamine	ND	380	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	380	ug/Kg	10/17/12	DD	SW 8270
Pentachloronitrobenzene	ND	380	ug/Kg	10/17/12	DD	SW 8270
Pentachlorophenol	ND	380	ug/Kg	10/17/12	DD	SW 8270
Phenanthrene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Phenol	ND	270	ug/Kg	10/17/12	DD	SW 8270
Pyrene	ND	270	ug/Kg	10/17/12	DD	SW 8270
Pyridine	ND	380	ug/Kg	10/17/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	96		%	10/17/12	DD	30 - 130 %
% 2-Fluorobiphenyl	78		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	78		%	10/17/12	DD	30 - 130 %
% Nitrobenzene-d5	80		%	10/17/12	DD	40 - 140 %
% Phenol-d5	81		%	10/17/12	DD	30 - 130 %
% Terphenyl-d14	101		%	10/17/12	DD	40 - 140 %

10

Project ID: 491 EAST 165TH ST.
Client ID: SB-5 17-19 FT

Phoenix I.D.: BC83703

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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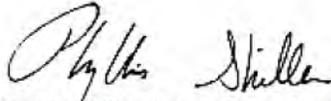
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: SOIL
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

10/15/12
 10/16/12

Time

14:10
 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83704

Project ID: 491 EAST 165TH ST.
 Client ID: SB-6 0-2 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	10/17/12	EK	SW6010
Aluminum	7910	54	mg/Kg	10/17/12	EK	SW6010
Arsenic	4.7	0.7	mg/Kg	10/17/12	EK	SW6010
Barium	149	0.36	mg/Kg	10/17/12	EK	SW6010
Beryllium	0.46	0.29	mg/Kg	10/18/12	LK	SW6010
Calcium	59400	54	mg/Kg	10/17/12	EK	SW6010
Cadmium	0.90	0.36	mg/Kg	10/17/12	EK	SW6010
Cobalt	6.29	0.36	mg/Kg	10/17/12	EK	SW6010
Chromium	26.5	0.36	mg/Kg	10/17/12	EK	SW6010
Copper	41.1	0.36	mg/kg	10/17/12	EK	SW6010
Iron	15900	54	mg/Kg	10/17/12	EK	SW6010
Mercury	< 0.08	0.08	mg/Kg	10/17/12	RS	SW-7471
Potassium	2920	54	mg/Kg	10/17/12	EK	SW6010
Magnesium	14300	54	mg/Kg	10/17/12	EK	SW6010
Manganese	209	3.6	mg/Kg	10/17/12	EK	SW6010
Sodium	505	5.4	mg/Kg	10/17/12	EK	SW6010
Nickel	21.8	0.36	mg/Kg	10/17/12	EK	SW6010
Lead	128	0.36	mg/Kg	10/17/12	EK	SW6010
Antimony	< 3.6	3.6	mg/Kg	10/17/12	EK	SW6010
Selenium	< 1.4	1.4	mg/Kg	10/17/12	EK	SW6010
Thallium	< 0.6	0.6	mg/Kg	10/17/12	LK	SW6010
Vanadium	35.6	0.36	mg/Kg	10/17/12	EK	SW6010
Zinc	106	0.36	mg/Kg	10/17/12	EK	SW6010
Percent Solid	91		%	10/16/12	JL	E160.3
Soil Extraction for PCB	Completed			10/16/12	BB	SW3545
Soil Extraction for Pesticide	Completed			10/16/12	BBV	SW3545
Soil Extraction for SVOA	Completed			10/16/12	JJ/V	SW3545
Mercury Digestion	Completed			10/17/12	XX	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			10/16/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1221	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1232	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1242	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1248	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1254	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1260	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1262	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1268	ND	360	ug/Kg	10/17/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	93		%	10/17/12	AW	30 - 150 %
% TCMX	80		%	10/17/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	35	ug/Kg	10/18/12	MH	SW8081
4,4' -DDE	ND	35	ug/Kg	10/18/12	MH	SW8081
4,4' -DDT	ND	35	ug/Kg	10/18/12	MH	SW8081
a-BHC	ND	17	ug/Kg	10/18/12	MH	SW8081
Alachlor	ND	17	ug/Kg	10/18/12	MH	SW8081
Aldrin	ND	5.4	ug/Kg	10/18/12	MH	SW8081
b-BHC	ND	17	ug/Kg	10/18/12	MH	SW8081
Chlordane	ND	54	ug/Kg	10/18/12	MH	SW8081
d-BHC	ND	17	ug/Kg	10/18/12	MH	SW8081
Dieldrin	ND	5.4	ug/Kg	10/18/12	MH	SW8081
Endosulfan I	ND	17	ug/Kg	10/18/12	MH	SW8081
Endosulfan II	ND	35	ug/Kg	10/18/12	MH	SW8081
Endosulfan sulfate	ND	35	ug/Kg	10/18/12	MH	SW8081
Endrin	ND	35	ug/Kg	10/18/12	MH	SW8081
Endrin aldehyde	ND	35	ug/Kg	10/18/12	MH	SW8081
Endrin ketone	ND	35	ug/Kg	10/18/12	MH	SW8081
g-BHC	ND	5.4	ug/Kg	10/18/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	10/18/12	MH	SW8081
Heptachlor epoxide	ND	17	ug/Kg	10/18/12	MH	SW8081
Methoxychlor	ND	170	ug/Kg	10/18/12	MH	SW8081
Toxaphene	ND	170	ug/Kg	10/18/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	86		%	10/18/12	MH	30 - 150 %
% TCMX	91		%	10/18/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloroethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloroethene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloropropene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,2-Dibromoethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,2-Dichloroethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,2-Dichloropropane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,3-Dichloropropane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
2,2-Dichloropropane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
2-Chlorotoluene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
2-Hexanone	ND	27	ug/Kg	10/21/12	R/J	SW8260
2-Isopropyltoluene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	10/21/12	R/J	SW8260
Acetone	ND	55	ug/Kg	10/21/12	R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	10/21/12	R/J	SW8260
Benzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Bromobenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Bromochloromethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Bromodichloromethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Bromoform	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Bromomethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Carbon Disulfide	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Carbon tetrachloride	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Chlorobenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Chloroethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Chloroform	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Chloromethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260 1
Dibromochloromethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Dibromomethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Ethylbenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Hexachlorobutadiene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260 1P
Isopropylbenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
m&p-Xylene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	10/21/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	10/21/12	R/J	SW8260
Methylene chloride	ND	11	ug/Kg	10/21/12	R/J	SW8260
Naphthalene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
n-Butylbenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
n-Propylbenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
o-Xylene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
p-Isopropyltoluene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
sec-Butylbenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
tert-Butylbenzene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Tetrachloroethene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	10/21/12	R/J	SW8260
Toluene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Total Xylenes	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	10/21/12	R/J	SW8260
Trichloroethene	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Trichlorofluoromethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
Vinyl chloride	ND	5.5	ug/Kg	10/21/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	102		%	10/21/12	R/J	70 - 130 %
% Bromofluorobenzene	92		%	10/21/12	R/J	70 - 130 %
% Dibromofluoromethane	59		%	10/21/12	R/J	70 - 130 %
% Toluene-d8	109		%	10/21/12	R/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
1,2-Dichlorobenzene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	1800	ug/Kg	10/17/12	DD	SW 8270
1,3-Dichlorobenzene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
1,4-Dichlorobenzene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	1300	ug/Kg	10/17/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	1300	ug/Kg	10/17/12	DD	SW 8270
2,4-Dichlorophenol	ND	1300	ug/Kg	10/17/12	DD	SW 8270
2,4-Dimethylphenol	ND	1300	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrophenol	ND	2900	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrotoluene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
2,6-Dinitrotoluene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
2-Chloronaphthalene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
2-Chlorophenol	ND	1300	ug/Kg	10/17/12	DD	SW 8270
2-Methylnaphthalene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	1300	ug/Kg	10/17/12	DD	SW 8270
2-Nitroaniline	ND	2900	ug/Kg	10/17/12	DD	SW 8270
2-Nitrophenol	ND	1300	ug/Kg	10/17/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	1800	ug/Kg	10/17/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	1300	ug/Kg	10/17/12	DD	SW 8270
3-Nitroaniline	ND	2900	ug/Kg	10/17/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	5200	ug/Kg	10/17/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	1800	ug/Kg	10/17/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	1300	ug/Kg	10/17/12	DD	SW 8270
4-Chloroaniline	ND	1300	ug/Kg	10/17/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	1300	ug/Kg	10/17/12	DD	SW 8270
4-Nitroaniline	ND	2900	ug/Kg	10/17/12	DD	SW 8270
4-Nitrophenol	ND	5200	ug/Kg	10/17/12	DD	SW 8270
Acenaphthene	ND	1300	ug/Kg	10/17/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acenaphthylene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Acetophenone	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Aniline	ND	5200	ug/Kg	10/17/12	DD	SW 8270
Anthracene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Benz(a)anthracene	1400	1300	ug/Kg	10/17/12	DD	SW 8270
Benzidine	ND	2200	ug/Kg	10/17/12	DD	SW 8270
Benzo(a)pyrene	1300	1300	ug/Kg	10/17/12	DD	SW 8270
Benzo(b)fluoranthene	1900	1300	ug/Kg	10/17/12	DD	SW 8270
Benzo(ghi)perylene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Benzo(k)fluoranthene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Benzoic acid	ND	5200	ug/Kg	10/17/12	DD	SW 8270
Benzyl butyl phthalate	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	1800	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Carbazole	ND	2700	ug/Kg	10/17/12	DD	SW 8270
Chrysene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Dibenzofuran	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Diethyl phthalate	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Dimethylphthalate	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Di-n-butylphthalate	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Di-n-octylphthalate	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Fluoranthene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Fluorene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobenzene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobutadiene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Hexachloroethane	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Isophorone	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Naphthalene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Nitrobenzene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodimethylamine	ND	1800	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	1300	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	1800	ug/Kg	10/17/12	DD	SW 8270
Pentachloronitrobenzene	ND	1800	ug/Kg	10/17/12	DD	SW 8270
Pentachlorophenol	ND	1800	ug/Kg	10/17/12	DD	SW 8270
Phenanthrene	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Phenol	ND	1300	ug/Kg	10/17/12	DD	SW 8270
Pyrene	1400	1300	ug/Kg	10/17/12	DD	SW 8270
Pyridine	ND	1800	ug/Kg	10/17/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	36		%	10/17/12	DD	30 - 130 %
% 2-Fluorobiphenyl	81		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	58		%	10/17/12	DD	30 - 130 %
% Nitrobenzene-d5	83		%	10/17/12	DD	40 - 140 %
% Phenol-d5	58		%	10/17/12	DD	30 - 130 %
% Terphenyl-d14	75		%	10/17/12	DD	40 - 140 %

10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.
3 = This parameter exceeds laboratory specified limits.
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

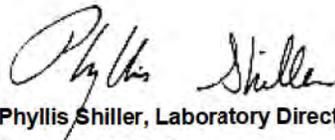
Comments:

* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatle analysis.

**Surrogate recoveries were outside control limits for volatiles due to matrix interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: SOIL
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

10/15/12
 10/16/12

Time

14:10
 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83705

Project ID: 491 EAST 165TH ST.
 Client ID: SB-6 17-19 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.32	0.32	mg/Kg	10/17/12	EK	SW6010
Aluminum	9070	49	mg/Kg	10/17/12	EK	SW6010
Arsenic	< 0.6	0.6	mg/Kg	10/17/12	EK	SW6010
Barium	42.8	0.32	mg/Kg	10/17/12	EK	SW6010
Beryllium	0.51	0.26	mg/Kg	10/18/12	LK	SW6010
Calcium	2000	4.9	mg/Kg	10/17/12	EK	SW6010
Cadmium	0.85	0.32	mg/Kg	10/17/12	EK	SW6010
Cobalt	6.52	0.32	mg/Kg	10/17/12	EK	SW6010
Chromium	47.3	0.32	mg/Kg	10/17/12	EK	SW6010
Copper	28.9	0.32	mg/kg	10/17/12	EK	SW6010
Iron	20700	49	mg/Kg	10/19/12	LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	10/17/12	RS	SW-7471
Potassium	4070	49	mg/Kg	10/17/12	EK	SW6010
Magnesium	6100	49	mg/Kg	10/17/12	EK	SW6010
Manganese	336	3.2	mg/Kg	10/17/12	EK	SW6010
Sodium	120	4.9	mg/Kg	10/17/12	EK	SW6010
Nickel	19.3	0.32	mg/Kg	10/17/12	EK	SW6010
Lead	5.16	0.32	mg/Kg	10/17/12	EK	SW6010
Antimony	< 3.2	3.2	mg/Kg	10/17/12	EK	SW6010
Selenium	< 1.3	1.3	mg/Kg	10/17/12	EK	SW6010
Thallium	< 0.5	0.5	mg/Kg	10/17/12	LK	SW6010
Vanadium	32.5	0.32	mg/Kg	10/17/12	EK	SW6010
Zinc	49.8	0.32	mg/Kg	10/17/12	EK	SW6010
Percent Solid	93		%	10/16/12	JL	E160.3
Soil Extraction for PCB	Completed			10/16/12	BB	SW3545
Soil Extraction for Pesticide	Completed			10/16/12	BBV	SW3545
Soil Extraction for SVOA	Completed			10/16/12	JJ/V	SW3545
Mercury Digestion	Completed			10/17/12	XX	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			10/16/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	350	ug/Kg	10/17/12	AW	SW 8082
PCB-1221	ND	350	ug/Kg	10/17/12	AW	SW 8082
PCB-1232	ND	350	ug/Kg	10/17/12	AW	SW 8082
PCB-1242	ND	350	ug/Kg	10/17/12	AW	SW 8082
PCB-1248	ND	350	ug/Kg	10/17/12	AW	SW 8082
PCB-1254	ND	350	ug/Kg	10/17/12	AW	SW 8082
PCB-1260	ND	350	ug/Kg	10/17/12	AW	SW 8082
PCB-1262	ND	350	ug/Kg	10/17/12	AW	SW 8082
PCB-1268	ND	350	ug/Kg	10/17/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	96		%	10/17/12	AW	30 - 150 %
% TCMX	88		%	10/17/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	33	ug/Kg	10/16/12	MH	SW8081
4,4' -DDE	ND	33	ug/Kg	10/16/12	MH	SW8081
4,4' -DDT	ND	33	ug/Kg	10/16/12	MH	SW8081
a-BHC	ND	17	ug/Kg	10/16/12	MH	SW8081
Alachlor	ND	17	ug/Kg	10/16/12	MH	SW8081
Aldrin	ND	5.2	ug/Kg	10/16/12	MH	SW8081
b-BHC	ND	17	ug/Kg	10/16/12	MH	SW8081
Chlordane	ND	52	ug/Kg	10/16/12	MH	SW8081
d-BHC	ND	17	ug/Kg	10/16/12	MH	SW8081
Dieldrin	ND	5.2	ug/Kg	10/16/12	MH	SW8081
Endosulfan I	ND	17	ug/Kg	10/16/12	MH	SW8081
Endosulfan II	ND	33	ug/Kg	10/16/12	MH	SW8081
Endosulfan sulfate	ND	33	ug/Kg	10/16/12	MH	SW8081
Endrin	ND	33	ug/Kg	10/16/12	MH	SW8081
Endrin aldehyde	ND	33	ug/Kg	10/16/12	MH	SW8081
Endrin ketone	ND	33	ug/Kg	10/16/12	MH	SW8081
g-BHC	ND	5.2	ug/Kg	10/16/12	MH	SW8081
Heptachlor	ND	10	ug/Kg	10/16/12	MH	SW8081
Heptachlor epoxide	ND	17	ug/Kg	10/16/12	MH	SW8081
Methoxychlor	ND	170	ug/Kg	10/16/12	MH	SW8081
Toxaphene	ND	170	ug/Kg	10/16/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	97		%	10/16/12	MH	30 - 150 %
% TCMX	100		%	10/16/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
2-Hexanone	ND	27	ug/Kg	10/19/12	H/J	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260 1
4-Chlorotoluene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	10/19/12	H/J	SW8260
Acetone	ND	27	ug/Kg	10/19/12	H/J	SW8260
Acrylonitrile	ND	11	ug/Kg	10/19/12	H/J	SW8260
Benzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Bromobenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Bromochloromethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Bromodichloromethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Bromoform	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Bromomethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Carbon Disulfide	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Chlorobenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Chloroethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Chloroform	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Chloromethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260 1
Dibromochloromethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Dibromomethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Ethylbenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Hexachlorobutadiene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260 1P
Isopropylbenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
m&p-Xylene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	10/19/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	10/19/12	H/J	SW8260
Methylene chloride	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Naphthalene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
n-Butylbenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
n-Propylbenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
o-Xylene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
p-Isopropyltoluene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
sec-Butylbenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
tert-Butylbenzene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Tetrachloroethene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	10/19/12	H/J	SW8260
Toluene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Total Xylenes	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	10/19/12	H/J	SW8260
Trichloroethene	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
Vinyl chloride	ND	5.4	ug/Kg	10/19/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	101		%	10/19/12	H/J	70 - 130 %
% Bromofluorobenzene	97		%	10/19/12	H/J	70 - 130 %
% Dibromofluoromethane	96		%	10/19/12	H/J	70 - 130 %
% Toluene-d8	99		%	10/19/12	H/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,2-Dichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	350	ug/Kg	10/17/12	DD	SW 8270
1,3-Dichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
1,4-Dichlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4-Dichlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4-Dimethylphenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrophenol	ND	560	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrotoluene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2,6-Dinitrotoluene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Chloronaphthalene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Chlorophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Methylnaphthalene	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	250	ug/Kg	10/17/12	DD	SW 8270
2-Nitroaniline	ND	560	ug/Kg	10/17/12	DD	SW 8270
2-Nitrophenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	10/17/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	250	ug/Kg	10/17/12	DD	SW 8270
3-Nitroaniline	ND	560	ug/Kg	10/17/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	10/17/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	350	ug/Kg	10/17/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
4-Chloroaniline	ND	250	ug/Kg	10/17/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	10/17/12	DD	SW 8270
4-Nitroaniline	ND	560	ug/Kg	10/17/12	DD	SW 8270
4-Nitrophenol	ND	1000	ug/Kg	10/17/12	DD	SW 8270
Acenaphthene	ND	250	ug/Kg	10/17/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acenaphthylene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Acetophenone	ND	250	ug/Kg	10/17/12	DD	SW 8270
Aniline	ND	1000	ug/Kg	10/17/12	DD	SW 8270
Anthracene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benzidine	ND	420	ug/Kg	10/17/12	DD	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Benzoic acid	ND	1000	ug/Kg	10/17/12	DD	SW 8270
Benzyl butyl phthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	350	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	10/17/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Carbazole	ND	530	ug/Kg	10/17/12	DD	SW 8270
Chrysene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Dibenzofuran	ND	250	ug/Kg	10/17/12	DD	SW 8270
Diethyl phthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Dimethylphthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Di-n-butylphthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Di-n-octylphthalate	ND	250	ug/Kg	10/17/12	DD	SW 8270
Fluoranthene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Fluorene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobutadiene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Hexachloroethane	ND	250	ug/Kg	10/17/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Isophorone	ND	250	ug/Kg	10/17/12	DD	SW 8270
Naphthalene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Nitrobenzene	ND	250	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodimethylamine	ND	350	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	350	ug/Kg	10/17/12	DD	SW 8270
Pentachloronitrobenzene	ND	350	ug/Kg	10/17/12	DD	SW 8270
Pentachlorophenol	ND	350	ug/Kg	10/17/12	DD	SW 8270
Phenanthrene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Phenol	ND	250	ug/Kg	10/17/12	DD	SW 8270
Pyrene	ND	250	ug/Kg	10/17/12	DD	SW 8270
Pyridine	ND	350	ug/Kg	10/17/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	83		%	10/17/12	DD	30 - 130 %
% 2-Fluorobiphenyl	68		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	68		%	10/17/12	DD	30 - 130 %
% Nitrobenzene-d5	71		%	10/17/12	DD	40 - 140 %
% Phenol-d5	71		%	10/17/12	DD	30 - 130 %
% Terphenyl-d14	82		%	10/17/12	DD	40 - 140 %

10

Project ID: 491 EAST 165TH ST.
Client ID: SB-6 17-19 FT

Phoenix I.D.: BC83705

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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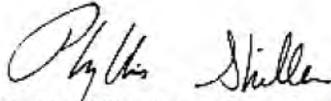
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: SOIL
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date Time
 10/15/12 15:15
 10/16/12 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83706

Project ID: 491 EAST 165TH ST.
 Client ID: SB-7 0-2 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	10/17/12	EK	SW6010
Aluminum	7760	57	mg/Kg	10/17/12	EK	SW6010
Arsenic	5.1	0.8	mg/Kg	10/17/12	EK	SW6010
Barium	169	0.38	mg/Kg	10/17/12	EK	SW6010
Beryllium	< 0.30	0.30	mg/Kg	10/17/12	EK	SW6010
Calcium	50000	57	mg/Kg	10/17/12	EK	SW6010
Cadmium	1.11	0.38	mg/Kg	10/17/12	EK	SW6010
Cobalt	5.38	0.38	mg/Kg	10/17/12	EK	SW6010
Chromium	25.2	0.38	mg/Kg	10/17/12	EK	SW6010
Copper	50.8	0.38	mg/kg	10/17/12	EK	SW6010
Iron	12900	57	mg/Kg	10/19/12	LK	SW6010
Mercury	0.27	0.07	mg/Kg	10/17/12	RS	SW-7471
Potassium	2080	5.7	mg/Kg	10/17/12	EK	SW6010
Magnesium	6150	57	mg/Kg	10/17/12	EK	SW6010
Manganese	201	3.8	mg/Kg	10/17/12	EK	SW6010
Sodium	307	5.7	mg/Kg	10/17/12	EK	SW6010
Nickel	23.4	0.38	mg/Kg	10/17/12	EK	SW6010
Lead	125	0.38	mg/Kg	10/17/12	EK	SW6010
Antimony	< 3.8	3.8	mg/Kg	10/17/12	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	10/17/12	EK	SW6010
Thallium	< 0.6	0.6	mg/Kg	10/17/12	LK	SW6010
Vanadium	47.7	0.38	mg/Kg	10/17/12	EK	SW6010
Zinc	131	0.38	mg/Kg	10/17/12	EK	SW6010
Percent Solid	89		%	10/16/12	JL	E160.3
Soil Extraction for PCB	Completed			10/16/12	BB	SW3545
Soil Extraction for Pesticide	Completed			10/16/12	BBV	SW3545
Soil Extraction for SVOA	Completed			10/16/12	JJ/V	SW3545
Mercury Digestion	Completed			10/17/12	XX	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			10/16/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1221	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1232	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1242	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1248	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1254	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1260	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1262	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1268	ND	370	ug/Kg	10/17/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	78		%	10/17/12	AW	30 - 150 %
% TCMX	70		%	10/17/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	36	ug/Kg	10/16/12	MH	SW8081
4,4' -DDE	ND	36	ug/Kg	10/16/12	MH	SW8081
4,4' -DDT	ND	36	ug/Kg	10/16/12	MH	SW8081
a-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Alachlor	ND	18	ug/Kg	10/16/12	MH	SW8081
Aldrin	ND	5.6	ug/Kg	10/16/12	MH	SW8081
b-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Chlordane	ND	56	ug/Kg	10/16/12	MH	SW8081
d-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Dieldrin	ND	5.6	ug/Kg	10/16/12	MH	SW8081
Endosulfan I	ND	18	ug/Kg	10/16/12	MH	SW8081
Endosulfan II	ND	36	ug/Kg	10/16/12	MH	SW8081
Endosulfan sulfate	ND	36	ug/Kg	10/16/12	MH	SW8081
Endrin	ND	36	ug/Kg	10/16/12	MH	SW8081
Endrin aldehyde	ND	36	ug/Kg	10/16/12	MH	SW8081
Endrin ketone	ND	36	ug/Kg	10/16/12	MH	SW8081
g-BHC	ND	5.6	ug/Kg	10/16/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	10/16/12	MH	SW8081
Heptachlor epoxide	ND	18	ug/Kg	10/16/12	MH	SW8081
Methoxychlor	ND	180	ug/Kg	10/16/12	MH	SW8081
Toxaphene	ND	180	ug/Kg	10/16/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	75		%	10/16/12	MH	30 - 150 %
% TCMX	81		%	10/16/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
2-Hexanone	ND	28	ug/Kg	10/19/12	H/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260 1
4-Chlorotoluene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	10/19/12	H/J	SW8260
Acetone	ND	28	ug/Kg	10/19/12	H/J	SW8260
Acrylonitrile	ND	11	ug/Kg	10/19/12	H/J	SW8260
Benzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Bromobenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Bromochloromethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Bromodichloromethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Bromoform	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Bromomethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Chlorobenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Chloroethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Chloroform	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Chloromethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260 1
Dibromochloromethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Dibromomethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Ethylbenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Hexachlorobutadiene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260 1P
Isopropylbenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
m&p-Xylene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	10/19/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	10/19/12	H/J	SW8260
Methylene chloride	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Naphthalene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
n-Butylbenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
n-Propylbenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
o-Xylene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
p-Isopropyltoluene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
sec-Butylbenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
tert-Butylbenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	10/19/12	H/J	SW8260
Toluene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Total Xylenes	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	10/19/12	H/J	SW8260
Trichloroethene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Vinyl chloride	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	100		%	10/19/12	H/J	70 - 130 %
% Bromofluorobenzene	82		%	10/19/12	H/J	70 - 130 %
% Dibromofluoromethane	88		%	10/19/12	H/J	70 - 130 %
% Toluene-d8	93		%	10/19/12	H/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	360	ug/Kg	10/17/12	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrophenol	ND	580	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Nitroaniline	ND	580	ug/Kg	10/17/12	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	10/17/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	10/17/12	DD	SW 8270
3-Nitroaniline	ND	580	ug/Kg	10/17/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	10/17/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	360	ug/Kg	10/17/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	10/17/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	10/17/12	DD	SW 8270
4-Nitroaniline	ND	580	ug/Kg	10/17/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	10/17/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acenaphthylene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Acetophenone	ND	260	ug/Kg	10/17/12	DD	SW 8270
Aniline	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Anthracene	590	260	ug/Kg	10/17/12	DD	SW 8270
Benz(a)anthracene	1500	260	ug/Kg	10/17/12	DD	SW 8270
Benzidine	ND	440	ug/Kg	10/17/12	DD	SW 8270
Benzo(a)pyrene	1500	260	ug/Kg	10/17/12	DD	SW 8270
Benzo(b)fluoranthene	1900	260	ug/Kg	10/17/12	DD	SW 8270
Benzo(ghi)perylene	620	260	ug/Kg	10/17/12	DD	SW 8270
Benzo(k)fluoranthene	710	260	ug/Kg	10/17/12	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Benzyl butyl phthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	360	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	10/17/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	3400	260	ug/Kg	10/17/12	DD	SW 8270
Carbazole	ND	550	ug/Kg	10/17/12	DD	SW 8270
Chrysene	1400	260	ug/Kg	10/17/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Dibenzofuran	ND	260	ug/Kg	10/17/12	DD	SW 8270
Diethyl phthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Dimethylphthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Fluoranthene	2900	260	ug/Kg	10/17/12	DD	SW 8270
Fluorene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Hexachloroethane	ND	260	ug/Kg	10/17/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	570	260	ug/Kg	10/17/12	DD	SW 8270
Isophorone	ND	260	ug/Kg	10/17/12	DD	SW 8270
Naphthalene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Nitrobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodimethylamine	ND	360	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	360	ug/Kg	10/17/12	DD	SW 8270
Pentachloronitrobenzene	ND	360	ug/Kg	10/17/12	DD	SW 8270
Pentachlorophenol	ND	360	ug/Kg	10/17/12	DD	SW 8270
Phenanthrene	2300	260	ug/Kg	10/17/12	DD	SW 8270
Phenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
Pyrene	2500	260	ug/Kg	10/17/12	DD	SW 8270
Pyridine	ND	360	ug/Kg	10/17/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	70		%	10/17/12	DD	30 - 130 %
% 2-Fluorobiphenyl	79		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	68		%	10/17/12	DD	30 - 130 %
% Nitrobenzene-d5	75		%	10/17/12	DD	40 - 140 %
% Phenol-d5	75		%	10/17/12	DD	30 - 130 %
% Terphenyl-d14	73		%	10/17/12	DD	40 - 140 %

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Project ID: 491 EAST 165TH ST.
Client ID: SB-7 0-2 FT

Phoenix I.D.: BC83706

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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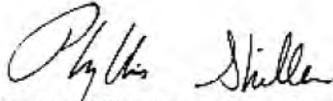
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: SOIL
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

10/15/12
 10/16/12

Time

15:15
 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83707

Project ID: 491 EAST 165TH ST.
 Client ID: SB-7 17-19 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	10/17/12	EK	SW6010
Aluminum	7620	59	mg/Kg	10/17/12	EK	SW6010
Arsenic	< 0.8	0.8	mg/Kg	10/17/12	EK	SW6010
Barium	60.5	0.39	mg/Kg	10/17/12	EK	SW6010
Beryllium	< 0.31	0.31	mg/Kg	10/17/12	EK	SW6010
Calcium	3190	5.9	mg/Kg	10/17/12	EK	SW6010
Cadmium	0.59	0.39	mg/Kg	10/17/12	EK	SW6010
Cobalt	8.57	0.39	mg/Kg	10/17/12	EK	SW6010
Chromium	24.7	0.39	mg/Kg	10/17/12	EK	SW6010
Copper	31.6	0.39	mg/kg	10/17/12	EK	SW6010
Iron	18200	59	mg/Kg	10/18/12	EK	SW6010
Mercury	< 0.07	0.07	mg/Kg	10/17/12	RS	SW-7471
Potassium	2860	5.9	mg/Kg	10/17/12	EK	SW6010
Magnesium	4840	59	mg/Kg	10/17/12	EK	SW6010
Manganese	356	3.9	mg/Kg	10/17/12	EK	SW6010
Sodium	355	5.9	mg/Kg	10/17/12	EK	SW6010
Nickel	20.0	0.39	mg/Kg	10/17/12	EK	SW6010
Lead	2.89	0.39	mg/Kg	10/17/12	EK	SW6010
Antimony	< 3.9	3.9	mg/Kg	10/17/12	EK	SW6010
Selenium	< 1.6	1.6	mg/Kg	10/17/12	EK	SW6010
Thallium	< 0.6	0.6	mg/Kg	10/17/12	LK	SW6010
Vanadium	33.7	0.39	mg/Kg	10/17/12	EK	SW6010
Zinc	38.4	0.39	mg/Kg	10/17/12	EK	SW6010
Percent Solid	90		%	10/16/12	JL	E160.3
Soil Extraction for PCB	Completed			10/16/12	BB	SW3545
Soil Extraction for Pesticide	Completed			10/16/12	BBV	SW3545
Soil Extraction for SVOA	Completed			10/16/12	JJ/V	SW3545
Mercury Digestion	Completed			10/17/12	XX	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			10/16/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1221	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1232	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1242	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1248	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1254	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1260	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1262	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1268	ND	360	ug/Kg	10/17/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	94		%	10/17/12	AW	30 - 150 %
% TCMX	91		%	10/17/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	34	ug/Kg	10/16/12	MH	SW8081
4,4' -DDE	ND	34	ug/Kg	10/16/12	MH	SW8081
4,4' -DDT	ND	34	ug/Kg	10/16/12	MH	SW8081
a-BHC	ND	17	ug/Kg	10/16/12	MH	SW8081
Alachlor	ND	17	ug/Kg	10/16/12	MH	SW8081
Aldrin	ND	5.4	ug/Kg	10/16/12	MH	SW8081
b-BHC	ND	17	ug/Kg	10/16/12	MH	SW8081
Chlordane	ND	54	ug/Kg	10/16/12	MH	SW8081
d-BHC	ND	17	ug/Kg	10/16/12	MH	SW8081
Dieldrin	ND	5.4	ug/Kg	10/16/12	MH	SW8081
Endosulfan I	ND	17	ug/Kg	10/16/12	MH	SW8081
Endosulfan II	ND	34	ug/Kg	10/16/12	MH	SW8081
Endosulfan sulfate	ND	34	ug/Kg	10/16/12	MH	SW8081
Endrin	ND	34	ug/Kg	10/16/12	MH	SW8081
Endrin aldehyde	ND	34	ug/Kg	10/16/12	MH	SW8081
Endrin ketone	ND	34	ug/Kg	10/16/12	MH	SW8081
g-BHC	ND	5.4	ug/Kg	10/16/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	10/16/12	MH	SW8081
Heptachlor epoxide	ND	17	ug/Kg	10/16/12	MH	SW8081
Methoxychlor	ND	170	ug/Kg	10/16/12	MH	SW8081
Toxaphene	ND	170	ug/Kg	10/16/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	88		%	10/16/12	MH	30 - 150 %
% TCMX	94		%	10/16/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
2-Hexanone	ND	28	ug/Kg	10/19/12	H/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260 1
4-Chlorotoluene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	10/19/12	H/J	SW8260
Acetone	ND	28	ug/Kg	10/19/12	H/J	SW8260
Acrylonitrile	ND	11	ug/Kg	10/19/12	H/J	SW8260
Benzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Bromobenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Bromochloromethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Bromodichloromethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Bromoform	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Bromomethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Chlorobenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Chloroethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Chloroform	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Chloromethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260 1
Dibromochloromethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Dibromomethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Ethylbenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Hexachlorobutadiene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260 1P
Isopropylbenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
m&p-Xylene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	10/19/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	10/19/12	H/J	SW8260
Methylene chloride	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Naphthalene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
n-Butylbenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
n-Propylbenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
o-Xylene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
p-Isopropyltoluene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
sec-Butylbenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
tert-Butylbenzene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	10/19/12	H/J	SW8260
Toluene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Total Xylenes	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	10/19/12	H/J	SW8260
Trichloroethene	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
Vinyl chloride	ND	5.6	ug/Kg	10/19/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	100		%	10/19/12	H/J	70 - 130 %
% Bromofluorobenzene	95		%	10/19/12	H/J	70 - 130 %
% Dibromofluoromethane	99		%	10/19/12	H/J	70 - 130 %
% Toluene-d8	101		%	10/19/12	H/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	370	ug/Kg	10/17/12	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrophenol	ND	590	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Nitroaniline	ND	590	ug/Kg	10/17/12	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	10/17/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	10/17/12	DD	SW 8270
3-Nitroaniline	ND	590	ug/Kg	10/17/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	10/17/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	10/17/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	10/17/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	10/17/12	DD	SW 8270
4-Nitroaniline	ND	590	ug/Kg	10/17/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	10/17/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acenaphthylene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Acetophenone	ND	260	ug/Kg	10/17/12	DD	SW 8270
Aniline	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Anthracene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benzidine	ND	440	ug/Kg	10/17/12	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Benzyl butyl phthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	370	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	10/17/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Carbazole	ND	550	ug/Kg	10/17/12	DD	SW 8270
Chrysene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Dibenzofuran	ND	260	ug/Kg	10/17/12	DD	SW 8270
Diethyl phthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Dimethylphthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Fluorene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Hexachloroethane	ND	260	ug/Kg	10/17/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Isophorone	ND	260	ug/Kg	10/17/12	DD	SW 8270
Naphthalene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Nitrobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodimethylamine	ND	370	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	370	ug/Kg	10/17/12	DD	SW 8270
Pentachloronitrobenzene	ND	370	ug/Kg	10/17/12	DD	SW 8270
Pentachlorophenol	ND	370	ug/Kg	10/17/12	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Phenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
Pyrene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Pyridine	ND	370	ug/Kg	10/17/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	91		%	10/17/12	DD	30 - 130 %
% 2-Fluorobiphenyl	74		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	74		%	10/17/12	DD	30 - 130 %
% Nitrobenzene-d5	77		%	10/17/12	DD	40 - 140 %
% Phenol-d5	77		%	10/17/12	DD	30 - 130 %
% Terphenyl-d14	90		%	10/17/12	DD	40 - 140 %

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Project ID: 491 EAST 165TH ST.
Client ID: SB-7 17-19 FT

Phoenix I.D.: BC83707

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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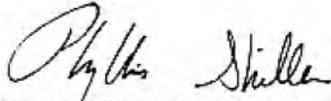
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: SOIL
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

10/15/12
 10/16/12

Time

16:00
 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83708

Project ID: 491 EAST 165TH ST.
 Client ID: SB-8 0-2 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	10/17/12	EK	SW6010
Aluminum	6150	60	mg/Kg	10/17/12	EK	SW6010
Arsenic	3.2	0.8	mg/Kg	10/17/12	EK	SW6010
Barium	459	0.40	mg/Kg	10/17/12	EK	SW6010
Beryllium	< 0.32	0.32	mg/Kg	10/17/12	EK	SW6010
Calcium	62700	60	mg/Kg	10/17/12	EK	SW6010
Cadmium	1.24	0.40	mg/Kg	10/17/12	EK	SW6010
Cobalt	4.97	0.40	mg/Kg	10/17/12	EK	SW6010
Chromium	47.8	0.40	mg/Kg	10/17/12	EK	SW6010
Copper	41.0	0.40	mg/kg	10/17/12	EK	SW6010
Iron	13400	60	mg/Kg	10/18/12	EK	SW6010
Mercury	< 0.07	0.07	mg/Kg	10/17/12	RS	SW-7471
Potassium	1970	6.0	mg/Kg	10/17/12	EK	SW6010
Magnesium	8190	60	mg/Kg	10/17/12	EK	SW6010
Manganese	184	4.0	mg/Kg	10/17/12	EK	SW6010
Sodium	595	6.0	mg/Kg	10/17/12	EK	SW6010
Nickel	16.8	0.40	mg/Kg	10/17/12	EK	SW6010
Lead	210	4.0	mg/Kg	10/17/12	EK	SW6010
Antimony	< 4.0	4.0	mg/Kg	10/17/12	EK	SW6010
Selenium	< 1.6	1.6	mg/Kg	10/17/12	EK	SW6010
Thallium	< 0.6	0.6	mg/Kg	10/17/12	LK	SW6010
Vanadium	26.2	0.40	mg/Kg	10/17/12	EK	SW6010
Zinc	324	4.0	mg/Kg	10/17/12	EK	SW6010
Percent Solid	89		%	10/16/12	JL	E160.3
Soil Extraction for PCB	Completed			10/16/12	BB	SW3545
Soil Extraction for Pesticide	Completed			10/16/12	BBV	SW3545
Soil Extraction for SVOA	Completed			10/16/12	JJ/V	SW3545
Mercury Digestion	Completed			10/17/12	XX	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			10/16/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1221	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1232	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1242	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1248	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1254	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1260	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1262	ND	360	ug/Kg	10/17/12	AW	SW 8082
PCB-1268	ND	360	ug/Kg	10/17/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	93		%	10/17/12	AW	30 - 150 %
% TCMX	84		%	10/17/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	35	ug/Kg	10/18/12	MH	SW8081
4,4' -DDE	ND	35	ug/Kg	10/18/12	MH	SW8081
4,4' -DDT	80	35	ug/Kg	10/18/12	MH	SW8081
a-BHC	ND	18	ug/Kg	10/18/12	MH	SW8081
Alachlor	ND	18	ug/Kg	10/18/12	MH	SW8081
Aldrin	ND	5.5	ug/Kg	10/18/12	MH	SW8081
b-BHC	ND	18	ug/Kg	10/18/12	MH	SW8081
Chlordane	94	55	ug/Kg	10/18/12	MH	SW8081
d-BHC	ND	18	ug/Kg	10/18/12	MH	SW8081
Dieldrin	16	5.5	ug/Kg	10/18/12	MH	SW8081
Endosulfan I	ND	18	ug/Kg	10/18/12	MH	SW8081
Endosulfan II	ND	35	ug/Kg	10/18/12	MH	SW8081
Endosulfan sulfate	ND	35	ug/Kg	10/18/12	MH	SW8081
Endrin	ND	35	ug/Kg	10/18/12	MH	SW8081
Endrin aldehyde	ND	35	ug/Kg	10/18/12	MH	SW8081
Endrin ketone	ND	35	ug/Kg	10/18/12	MH	SW8081
g-BHC	ND	5.5	ug/Kg	10/18/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	10/18/12	MH	SW8081
Heptachlor epoxide	ND	18	ug/Kg	10/18/12	MH	SW8081
Methoxychlor	ND	180	ug/Kg	10/18/12	MH	SW8081
Toxaphene	ND	180	ug/Kg	10/18/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	108		%	10/18/12	MH	30 - 150 %
% TCMX	100		%	10/18/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
2-Hexanone	ND	28	ug/Kg	10/21/12	R/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	10/21/12	R/J	SW8260
Acetone	ND	100	ug/Kg	10/21/12	R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	10/21/12	R/J	SW8260
Benzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Bromobenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Bromochloromethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Bromodichloromethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Bromoform	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Bromomethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Chlorobenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Chloroethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Chloroform	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Chloromethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260 1
Dibromochloromethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Dibromomethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Ethylbenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Hexachlorobutadiene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260 1P
Isopropylbenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
m&p-Xylene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Methyl Ethyl Ketone	ND	75	ug/Kg	10/21/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	10/21/12	R/J	SW8260
Methylene chloride	ND	11	ug/Kg	10/21/12	R/J	SW8260
Naphthalene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
n-Butylbenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
n-Propylbenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
o-Xylene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
p-Isopropyltoluene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
sec-Butylbenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
tert-Butylbenzene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	10/21/12	R/J	SW8260 1
Toluene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Total Xylenes	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	10/21/12	R/J	SW8260
Trichloroethene	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
Vinyl chloride	ND	5.6	ug/Kg	10/21/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	104		%	10/21/12	R/J	70 - 130 %
% Bromofluorobenzene	73		%	10/21/12	R/J	70 - 130 %
% Dibromofluoromethane	40		%	10/21/12	R/J	70 - 130 % 3
% Toluene-d8	97		%	10/21/12	R/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	520	ug/Kg	10/17/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	520	ug/Kg	10/17/12	DD	SW 8270
1,2-Dichlorobenzene	ND	520	ug/Kg	10/17/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	740	ug/Kg	10/17/12	DD	SW 8270
1,3-Dichlorobenzene	ND	520	ug/Kg	10/17/12	DD	SW 8270
1,4-Dichlorobenzene	ND	520	ug/Kg	10/17/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	520	ug/Kg	10/17/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	520	ug/Kg	10/17/12	DD	SW 8270
2,4-Dichlorophenol	ND	520	ug/Kg	10/17/12	DD	SW 8270
2,4-Dimethylphenol	ND	520	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrophenol	ND	1200	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrotoluene	ND	520	ug/Kg	10/17/12	DD	SW 8270
2,6-Dinitrotoluene	ND	520	ug/Kg	10/17/12	DD	SW 8270
2-Chloronaphthalene	ND	520	ug/Kg	10/17/12	DD	SW 8270
2-Chlorophenol	ND	520	ug/Kg	10/17/12	DD	SW 8270
2-Methylnaphthalene	ND	520	ug/Kg	10/17/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	520	ug/Kg	10/17/12	DD	SW 8270
2-Nitroaniline	ND	1200	ug/Kg	10/17/12	DD	SW 8270
2-Nitrophenol	ND	520	ug/Kg	10/17/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	740	ug/Kg	10/17/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	520	ug/Kg	10/17/12	DD	SW 8270
3-Nitroaniline	ND	1200	ug/Kg	10/17/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	2100	ug/Kg	10/17/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	740	ug/Kg	10/17/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	520	ug/Kg	10/17/12	DD	SW 8270
4-Chloroaniline	ND	520	ug/Kg	10/17/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	520	ug/Kg	10/17/12	DD	SW 8270
4-Nitroaniline	ND	1200	ug/Kg	10/17/12	DD	SW 8270
4-Nitrophenol	ND	2100	ug/Kg	10/17/12	DD	SW 8270
Acenaphthene	ND	520	ug/Kg	10/17/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acenaphthylene	ND	520	ug/Kg	10/17/12	DD	SW 8270
Acetophenone	ND	520	ug/Kg	10/17/12	DD	SW 8270
Aniline	ND	2100	ug/Kg	10/17/12	DD	SW 8270
Anthracene	920	520	ug/Kg	10/17/12	DD	SW 8270
Benz(a)anthracene	1200	520	ug/Kg	10/17/12	DD	SW 8270
Benzidine	ND	880	ug/Kg	10/17/12	DD	SW 8270
Benzo(a)pyrene	1100	520	ug/Kg	10/17/12	DD	SW 8270
Benzo(b)fluoranthene	1700	520	ug/Kg	10/17/12	DD	SW 8270
Benzo(ghi)perylene	680	520	ug/Kg	10/17/12	DD	SW 8270
Benzo(k)fluoranthene	610	520	ug/Kg	10/17/12	DD	SW 8270
Benzoic acid	ND	2100	ug/Kg	10/17/12	DD	SW 8270
Benzyl butyl phthalate	ND	520	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	520	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	740	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	520	ug/Kg	10/17/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	520	520	ug/Kg	10/17/12	DD	SW 8270
Carbazole	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Chrysene	1600	520	ug/Kg	10/17/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	520	ug/Kg	10/17/12	DD	SW 8270
Dibenzofuran	ND	520	ug/Kg	10/17/12	DD	SW 8270
Diethyl phthalate	ND	520	ug/Kg	10/17/12	DD	SW 8270
Dimethylphthalate	ND	520	ug/Kg	10/17/12	DD	SW 8270
Di-n-butylphthalate	ND	520	ug/Kg	10/17/12	DD	SW 8270
Di-n-octylphthalate	ND	520	ug/Kg	10/17/12	DD	SW 8270
Fluoranthene	2200	520	ug/Kg	10/17/12	DD	SW 8270
Fluorene	ND	520	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobenzene	ND	520	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobutadiene	ND	520	ug/Kg	10/17/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	520	ug/Kg	10/17/12	DD	SW 8270
Hexachloroethane	ND	520	ug/Kg	10/17/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	520	ug/Kg	10/17/12	DD	SW 8270
Isophorone	ND	520	ug/Kg	10/17/12	DD	SW 8270
Naphthalene	ND	520	ug/Kg	10/17/12	DD	SW 8270
Nitrobenzene	ND	520	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodimethylamine	ND	740	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	520	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	740	ug/Kg	10/17/12	DD	SW 8270
Pentachloronitrobenzene	ND	740	ug/Kg	10/17/12	DD	SW 8270
Pentachlorophenol	ND	740	ug/Kg	10/17/12	DD	SW 8270
Phenanthrene	1800	520	ug/Kg	10/17/12	DD	SW 8270
Phenol	ND	520	ug/Kg	10/17/12	DD	SW 8270
Pyrene	1700	520	ug/Kg	10/17/12	DD	SW 8270
Pyridine	ND	740	ug/Kg	10/17/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	14		%	10/17/12	DD	30 - 130 %
% 2-Fluorobiphenyl	85		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	51		%	10/17/12	DD	30 - 130 %
% Nitrobenzene-d5	91		%	10/17/12	DD	40 - 140 %
% Phenol-d5	78		%	10/17/12	DD	30 - 130 %
% Terphenyl-d14	72		%	10/17/12	DD	40 - 140 %

10

3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
10 = This parameter is not certified by NY NELAC for this matrix.
3 = This parameter exceeds laboratory specified limits.
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

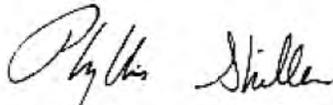
* Poor surrogate recovery was observed for semivolatiles. The other surrogates associated with this sample were within QA/QC criteria. No further action was necessary.

* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

**Surrogate recoveries as well as internal standard responses were outside control limits for volatiles due to matrix interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: SOIL
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

10/15/12
 10/16/12

Time

16:00
 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83709

Project ID: 491 EAST 165TH ST.
 Client ID: SB-8 17-19 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	10/17/12	EK	SW6010
Aluminum	3910	53	mg/Kg	10/17/12	EK	SW6010
Arsenic	< 0.7	0.7	mg/Kg	10/17/12	EK	SW6010
Barium	27.0	0.36	mg/Kg	10/17/12	EK	SW6010
Beryllium	< 0.28	0.28	mg/Kg	10/17/12	EK	SW6010
Calcium	1340	5.3	mg/Kg	10/17/12	EK	SW6010
Cadmium	< 0.36	0.36	mg/Kg	10/17/12	EK	SW6010
Cobalt	5.75	0.36	mg/Kg	10/17/12	EK	SW6010
Chromium	13.4	0.36	mg/Kg	10/17/12	EK	SW6010
Copper	13.3	0.36	mg/kg	10/17/12	EK	SW6010
Iron	10700	53	mg/Kg	10/18/12	EK	SW6010
Mercury	< 0.08	0.08	mg/Kg	10/17/12	RS	SW-7471
Potassium	1090	5.3	mg/Kg	10/17/12	EK	SW6010
Magnesium	2370	53	mg/Kg	10/17/12	EK	SW6010
Manganese	247	3.6	mg/Kg	10/17/12	EK	SW6010
Sodium	131	5.3	mg/Kg	10/17/12	EK	SW6010
Nickel	12.4	0.36	mg/Kg	10/17/12	EK	SW6010
Lead	2.42	0.36	mg/Kg	10/17/12	EK	SW6010
Antimony	< 3.6	3.6	mg/Kg	10/17/12	EK	SW6010
Selenium	< 1.4	1.4	mg/Kg	10/17/12	EK	SW6010
Thallium	< 0.6	0.6	mg/Kg	10/17/12	LK	SW6010
Vanadium	16.0	0.36	mg/Kg	10/17/12	EK	SW6010
Zinc	15.9	0.36	mg/Kg	10/17/12	EK	SW6010
Percent Solid	88		%	10/16/12	JL	E160.3
Soil Extraction for PCB	Completed			10/16/12	BB	SW3545
Soil Extraction for Pesticide	Completed			10/16/12	BBV	SW3545
Soil Extraction for SVOA	Completed			10/16/12	JJ/V	SW3545
Mercury Digestion	Completed			10/17/12	XX	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			10/16/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1221	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1232	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1242	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1248	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1254	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1260	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1262	ND	370	ug/Kg	10/17/12	AW	SW 8082
PCB-1268	ND	370	ug/Kg	10/17/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	98		%	10/17/12	AW	30 - 150 %
% TCMX	85		%	10/17/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	36	ug/Kg	10/16/12	MH	SW8081
4,4' -DDE	ND	36	ug/Kg	10/16/12	MH	SW8081
4,4' -DDT	ND	36	ug/Kg	10/16/12	MH	SW8081
a-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Alachlor	ND	18	ug/Kg	10/16/12	MH	SW8081
Aldrin	ND	5.6	ug/Kg	10/16/12	MH	SW8081
b-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Chlordane	ND	56	ug/Kg	10/16/12	MH	SW8081
d-BHC	ND	18	ug/Kg	10/16/12	MH	SW8081
Dieldrin	ND	5.6	ug/Kg	10/16/12	MH	SW8081
Endosulfan I	ND	18	ug/Kg	10/16/12	MH	SW8081
Endosulfan II	ND	36	ug/Kg	10/16/12	MH	SW8081
Endosulfan sulfate	ND	36	ug/Kg	10/16/12	MH	SW8081
Endrin	ND	36	ug/Kg	10/16/12	MH	SW8081
Endrin aldehyde	ND	36	ug/Kg	10/16/12	MH	SW8081
Endrin ketone	ND	36	ug/Kg	10/16/12	MH	SW8081
g-BHC	ND	5.6	ug/Kg	10/16/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	10/16/12	MH	SW8081
Heptachlor epoxide	ND	18	ug/Kg	10/16/12	MH	SW8081
Methoxychlor	ND	180	ug/Kg	10/16/12	MH	SW8081
Toxaphene	ND	180	ug/Kg	10/16/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	95		%	10/16/12	MH	30 - 150 %
% TCMX	98		%	10/16/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloropropene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,2-Dibromoethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
2-Chlorotoluene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
2-Hexanone	ND	28	ug/Kg	10/19/12	H/J	SW8260
2-Isopropyltoluene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260 1
4-Chlorotoluene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	10/19/12	H/J	SW8260
Acetone	ND	28	ug/Kg	10/19/12	H/J	SW8260
Acrylonitrile	ND	11	ug/Kg	10/19/12	H/J	SW8260
Benzene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Bromobenzene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Bromochloromethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Bromodichloromethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Bromoform	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Bromomethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Chlorobenzene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Chloroethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Chloroform	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Chloromethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260 1
Dibromochloromethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Dibromomethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Ethylbenzene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Hexachlorobutadiene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260 1P
Isopropylbenzene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
m&p-Xylene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	10/19/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	10/19/12	H/J	SW8260
Methylene chloride	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Naphthalene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
n-Butylbenzene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
n-Propylbenzene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
o-Xylene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
p-Isopropyltoluene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
sec-Butylbenzene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
tert-Butylbenzene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	10/19/12	H/J	SW8260
Toluene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Total Xylenes	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	10/19/12	H/J	SW8260
Trichloroethene	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
Vinyl chloride	ND	5.7	ug/Kg	10/19/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	100		%	10/19/12	H/J	70 - 130 %
% Bromofluorobenzene	97		%	10/19/12	H/J	70 - 130 %
% Dibromofluoromethane	99		%	10/19/12	H/J	70 - 130 %
% Toluene-d8	101		%	10/19/12	H/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	380	ug/Kg	10/17/12	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrophenol	ND	600	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	10/17/12	DD	SW 8270
2-Nitroaniline	ND	600	ug/Kg	10/17/12	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	10/17/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	10/17/12	DD	SW 8270
3-Nitroaniline	ND	600	ug/Kg	10/17/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	10/17/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	380	ug/Kg	10/17/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	10/17/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	10/17/12	DD	SW 8270
4-Nitroaniline	ND	600	ug/Kg	10/17/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	10/17/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acenaphthylene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Acetophenone	ND	260	ug/Kg	10/17/12	DD	SW 8270
Aniline	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Anthracene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benzidine	ND	450	ug/Kg	10/17/12	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	10/17/12	DD	SW 8270
Benzyl butyl phthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	380	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	10/17/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Carbazole	ND	570	ug/Kg	10/17/12	DD	SW 8270
Chrysene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Dibenzofuran	ND	260	ug/Kg	10/17/12	DD	SW 8270
Diethyl phthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Dimethylphthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	10/17/12	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Fluorene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Hexachloroethane	ND	260	ug/Kg	10/17/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Isophorone	ND	260	ug/Kg	10/17/12	DD	SW 8270
Naphthalene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Nitrobenzene	ND	260	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodimethylamine	ND	380	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	380	ug/Kg	10/17/12	DD	SW 8270
Pentachloronitrobenzene	ND	380	ug/Kg	10/17/12	DD	SW 8270
Pentachlorophenol	ND	380	ug/Kg	10/17/12	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Phenol	ND	260	ug/Kg	10/17/12	DD	SW 8270
Pyrene	ND	260	ug/Kg	10/17/12	DD	SW 8270
Pyridine	ND	380	ug/Kg	10/17/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	104		%	10/17/12	DD	30 - 130 %
% 2-Fluorobiphenyl	84		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	84		%	10/17/12	DD	30 - 130 %
% Nitrobenzene-d5	88		%	10/17/12	DD	40 - 140 %
% Phenol-d5	87		%	10/17/12	DD	30 - 130 %
% Terphenyl-d14	104		%	10/17/12	DD	40 - 140 %

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Project ID: 491 EAST 165TH ST.
Client ID: SB-8 17-19 FT

Phoenix I.D.: BC83709

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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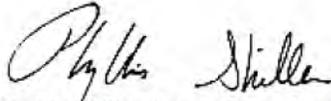
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: SOIL
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

10/15/12
 10/16/12

Time

17:30
 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83710

Project ID: 491 EAST 165TH ST.
 Client ID: FIELD DUPLICATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	10/17/12	EK	SW6010
Aluminum	7460	55	mg/Kg	10/17/12	EK	SW6010
Arsenic	< 0.7	0.7	mg/Kg	10/17/12	EK	SW6010
Barium	35.3	0.36	mg/Kg	10/17/12	EK	SW6010
Beryllium	< 0.29	0.29	mg/Kg	10/17/12	EK	SW6010
Calcium	1600	5.5	mg/Kg	10/17/12	EK	SW6010
Cadmium	0.44	0.36	mg/Kg	10/17/12	EK	SW6010
Cobalt	5.74	0.36	mg/Kg	10/17/12	EK	SW6010
Chromium	17.3	0.36	mg/Kg	10/17/12	EK	SW6010
Copper	14.5	0.36	mg/kg	10/17/12	EK	SW6010
Iron	12400	55	mg/Kg	10/17/12	EK	SW6010
Mercury	< 0.08	0.08	mg/Kg	10/17/12	RS	SW-7471
Potassium	1870	5.5	mg/Kg	10/17/12	EK	SW6010
Magnesium	3550	5.5	mg/Kg	10/17/12	EK	SW6010
Manganese	295	3.6	mg/Kg	10/17/12	EK	SW6010
Sodium	110	5.5	mg/Kg	10/17/12	EK	SW6010
Nickel	15.3	0.36	mg/Kg	10/17/12	EK	SW6010
Lead	2.83	0.36	mg/Kg	10/17/12	EK	SW6010
Antimony	< 3.6	3.6	mg/Kg	10/17/12	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	10/17/12	EK	SW6010
Thallium	< 0.6	0.6	mg/Kg	10/17/12	LK	SW6010
Vanadium	21.8	0.36	mg/Kg	10/17/12	EK	SW6010
Zinc	25.3	0.36	mg/Kg	10/17/12	EK	SW6010
Percent Solid	94		%	10/16/12	JL	E160.3
Soil Extraction for PCB	Completed			10/16/12	BB	SW3545
Soil Extraction for Pesticide	Completed			10/16/12	BBV	SW3545
Soil Extraction for SVOA	Completed			10/16/12	JJ/V	SW3545
Mercury Digestion	Completed			10/17/12	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			10/16/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	340	ug/Kg	10/17/12	AW	SW 8082
PCB-1221	ND	340	ug/Kg	10/17/12	AW	SW 8082
PCB-1232	ND	340	ug/Kg	10/17/12	AW	SW 8082
PCB-1242	ND	340	ug/Kg	10/17/12	AW	SW 8082
PCB-1248	ND	340	ug/Kg	10/17/12	AW	SW 8082
PCB-1254	ND	340	ug/Kg	10/17/12	AW	SW 8082
PCB-1260	ND	340	ug/Kg	10/17/12	AW	SW 8082
PCB-1262	ND	340	ug/Kg	10/17/12	AW	SW 8082
PCB-1268	ND	340	ug/Kg	10/17/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	106		%	10/17/12	AW	30 - 150 %
% TCMX	86		%	10/17/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	33	ug/Kg	10/16/12	MH	SW8081
4,4' -DDE	ND	33	ug/Kg	10/16/12	MH	SW8081
4,4' -DDT	ND	33	ug/Kg	10/16/12	MH	SW8081
a-BHC	ND	16	ug/Kg	10/16/12	MH	SW8081
Alachlor	ND	16	ug/Kg	10/16/12	MH	SW8081
Aldrin	ND	5.2	ug/Kg	10/16/12	MH	SW8081
b-BHC	ND	16	ug/Kg	10/16/12	MH	SW8081
Chlordane	ND	52	ug/Kg	10/16/12	MH	SW8081
d-BHC	ND	16	ug/Kg	10/16/12	MH	SW8081
Dieldrin	ND	5.2	ug/Kg	10/16/12	MH	SW8081
Endosulfan I	ND	16	ug/Kg	10/16/12	MH	SW8081
Endosulfan II	ND	33	ug/Kg	10/16/12	MH	SW8081
Endosulfan sulfate	ND	33	ug/Kg	10/16/12	MH	SW8081
Endrin	ND	33	ug/Kg	10/16/12	MH	SW8081
Endrin aldehyde	ND	33	ug/Kg	10/16/12	MH	SW8081
Endrin ketone	ND	33	ug/Kg	10/16/12	MH	SW8081
g-BHC	ND	5.2	ug/Kg	10/16/12	MH	SW8081
Heptachlor	ND	10	ug/Kg	10/16/12	MH	SW8081
Heptachlor epoxide	ND	16	ug/Kg	10/16/12	MH	SW8081
Methoxychlor	ND	160	ug/Kg	10/16/12	MH	SW8081
Toxaphene	ND	160	ug/Kg	10/16/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	102		%	10/16/12	MH	30 - 150 %
% TCMX	101		%	10/16/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,1,1-Trichloroethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,1,2-Trichloroethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloroethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloroethene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,1-Dichloropropene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,2-Dibromoethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,2-Dichloroethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,2-Dichloropropane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,3-Dichlorobenzene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,3-Dichloropropane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
1,4-Dichlorobenzene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
2,2-Dichloropropane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
2-Chlorotoluene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
2-Hexanone	ND	27	ug/Kg	10/19/12	H/J	SW8260
2-Isopropyltoluene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260 1
4-Chlorotoluene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	10/19/12	H/J	SW8260
Acetone	ND	27	ug/Kg	10/19/12	H/J	SW8260
Acrylonitrile	ND	11	ug/Kg	10/19/12	H/J	SW8260
Benzene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Bromobenzene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Bromochloromethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Bromodichloromethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Bromoform	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Bromomethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Carbon Disulfide	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Carbon tetrachloride	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Chlorobenzene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Chloroethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Chloroform	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Chloromethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260 1
Dibromochloromethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Dibromomethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Dichlorodifluoromethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Ethylbenzene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Hexachlorobutadiene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260 1P
Isopropylbenzene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
m&p-Xylene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	10/19/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	10/19/12	H/J	SW8260
Methylene chloride	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Naphthalene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
n-Butylbenzene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
n-Propylbenzene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
o-Xylene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
p-Isopropyltoluene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
sec-Butylbenzene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
tert-Butylbenzene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Tetrachloroethene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	10/19/12	H/J	SW8260
Toluene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Total Xylenes	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	10/19/12	H/J	SW8260
Trichloroethene	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Trichlorofluoromethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Trichlorotrifluoroethane	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
Vinyl chloride	ND	5.3	ug/Kg	10/19/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	100		%	10/19/12	H/J	70 - 130 %
% Bromofluorobenzene	96		%	10/19/12	H/J	70 - 130 %
% Dibromofluoromethane	98		%	10/19/12	H/J	70 - 130 %
% Toluene-d8	102		%	10/19/12	H/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	10/17/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	240	ug/Kg	10/17/12	DD	SW 8270
1,2-Dichlorobenzene	ND	240	ug/Kg	10/17/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	340	ug/Kg	10/17/12	DD	SW 8270
1,3-Dichlorobenzene	ND	240	ug/Kg	10/17/12	DD	SW 8270
1,4-Dichlorobenzene	ND	240	ug/Kg	10/17/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	240	ug/Kg	10/17/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	240	ug/Kg	10/17/12	DD	SW 8270
2,4-Dichlorophenol	ND	240	ug/Kg	10/17/12	DD	SW 8270
2,4-Dimethylphenol	ND	240	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrophenol	ND	550	ug/Kg	10/17/12	DD	SW 8270
2,4-Dinitrotoluene	ND	240	ug/Kg	10/17/12	DD	SW 8270
2,6-Dinitrotoluene	ND	240	ug/Kg	10/17/12	DD	SW 8270
2-Chloronaphthalene	ND	240	ug/Kg	10/17/12	DD	SW 8270
2-Chlorophenol	ND	240	ug/Kg	10/17/12	DD	SW 8270
2-Methylnaphthalene	ND	240	ug/Kg	10/17/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	240	ug/Kg	10/17/12	DD	SW 8270
2-Nitroaniline	ND	550	ug/Kg	10/17/12	DD	SW 8270
2-Nitrophenol	ND	240	ug/Kg	10/17/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	340	ug/Kg	10/17/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	240	ug/Kg	10/17/12	DD	SW 8270
3-Nitroaniline	ND	550	ug/Kg	10/17/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	10/17/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	340	ug/Kg	10/17/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	240	ug/Kg	10/17/12	DD	SW 8270
4-Chloroaniline	ND	240	ug/Kg	10/17/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	10/17/12	DD	SW 8270
4-Nitroaniline	ND	550	ug/Kg	10/17/12	DD	SW 8270
4-Nitrophenol	ND	1000	ug/Kg	10/17/12	DD	SW 8270
Acenaphthene	ND	240	ug/Kg	10/17/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acenaphthylene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Acetophenone	ND	240	ug/Kg	10/17/12	DD	SW 8270
Aniline	ND	1000	ug/Kg	10/17/12	DD	SW 8270
Anthracene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Benz(a)anthracene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Benzidine	ND	410	ug/Kg	10/17/12	DD	SW 8270
Benzo(a)pyrene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Benzo(b)fluoranthene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Benzo(ghi)perylene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Benzo(k)fluoranthene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Benzoic acid	ND	1000	ug/Kg	10/17/12	DD	SW 8270
Benzyl butyl phthalate	ND	240	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	340	ug/Kg	10/17/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	10/17/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	10/17/12	DD	SW 8270
Carbazole	ND	520	ug/Kg	10/17/12	DD	SW 8270
Chrysene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Dibenzofuran	ND	240	ug/Kg	10/17/12	DD	SW 8270
Diethyl phthalate	ND	240	ug/Kg	10/17/12	DD	SW 8270
Dimethylphthalate	ND	240	ug/Kg	10/17/12	DD	SW 8270
Di-n-butylphthalate	ND	240	ug/Kg	10/17/12	DD	SW 8270
Di-n-octylphthalate	ND	240	ug/Kg	10/17/12	DD	SW 8270
Fluoranthene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Fluorene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobenzene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Hexachlorobutadiene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Hexachloroethane	ND	240	ug/Kg	10/17/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Isophorone	ND	240	ug/Kg	10/17/12	DD	SW 8270
Naphthalene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Nitrobenzene	ND	240	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodimethylamine	ND	340	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	240	ug/Kg	10/17/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	340	ug/Kg	10/17/12	DD	SW 8270
Pentachloronitrobenzene	ND	340	ug/Kg	10/17/12	DD	SW 8270
Pentachlorophenol	ND	340	ug/Kg	10/17/12	DD	SW 8270
Phenanthrene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Phenol	ND	240	ug/Kg	10/17/12	DD	SW 8270
Pyrene	ND	240	ug/Kg	10/17/12	DD	SW 8270
Pyridine	ND	340	ug/Kg	10/17/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	107		%	10/17/12	DD	30 - 130 %
% 2-Fluorobiphenyl	86		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	86		%	10/17/12	DD	30 - 130 %
% Nitrobenzene-d5	90		%	10/17/12	DD	40 - 140 %
% Phenol-d5	88		%	10/17/12	DD	30 - 130 %
% Terphenyl-d14	105		%	10/17/12	DD	40 - 140 %

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Project ID: 491 EAST 165TH ST.
Client ID: FIELD DUPLICATE

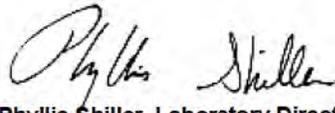
Phoenix I.D.: BC83710

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



APPENDIX 5

Laboratory Data Deliverables for Groundwater Analytical Data



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report
 October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: GROUND WATER
 Location Code: AEAS-INC
 Rush Request: 24 Hour
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date Time
 10/15/12 16:30
 10/16/12 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83711

Project ID: 491 EAST 165TH ST.
 Client ID: GW-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	10/17/12	EK	SW6010
Aluminum	29.7	0.010	mg/L	10/17/12	EK	SW6010
Arsenic	< 0.004	0.004	mg/L	10/17/12	EK	SW6010
Barium	0.300	0.002	mg/L	10/19/12	EK	SW6010
Beryllium	0.003	0.001	mg/L	10/17/12	EK	SW6010
Calcium	265	0.10	mg/L	10/17/12	EK	SW6010
Cadmium	< 0.001	0.001	mg/L	10/17/12	EK	SW6010
Cobalt	0.033	0.002	mg/L	10/17/12	EK	SW6010
Chromium	0.065	0.001	mg/L	10/17/12	EK	SW6010
Copper	0.095	0.005	mg/L	10/17/12	EK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	10/23/12	EK	SW6010
Aluminum (Dissolved)	0.06	0.01	mg/L	10/23/12	EK	SW6010
Arsenic (Dissolved)	< 0.004	0.004	mg/L	10/23/12	EK	SW6010
Barium (Dissolved)	0.022	0.002	mg/L	10/23/12	EK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	10/23/12	EK	SW6010
Calcium (Dissolved)	48.5	0.01	mg/L	10/23/12	EK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	10/23/12	EK	SW6010
Cobalt (Dissolved)	< 0.001	0.001	mg/L	10/23/12	EK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	10/23/12	EK	SW6010
Copper (Dissolved)	< 0.005	0.005	mg/L	10/23/12	EK	SW6010
Iron (Dissolved)	0.092	0.011	mg/L	10/23/12	EK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	10/24/12	JA	SW7470
Potassium (Dissolved)	3.5	0.1	mg/L	10/23/12	EK	SW6010
Magnesium (Dissolved)	14.8	0.01	mg/L	10/23/12	EK	SW6010
Manganese (Dissolved)	0.003	0.001	mg/L	10/23/12	EK	SW6010
Sodium (Dissolved)	33.7	0.11	mg/L	10/23/12	EK	SW6010
Nickel (Dissolved)	< 0.001	0.001	mg/L	10/23/12	EK	SW6010
Lead (Dissolved)	< 0.002	0.002	mg/L	10/23/12	EK	SW6010

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Antimony (Dissolved)	< 0.005	0.005	mg/L	10/23/12	EK	SW6010
Selenium (Dissolved)	< 0.011	0.011	mg/L	10/23/12	EK	SW6010
Thallium (Dissolved)	< 0.002	0.002	mg/L	10/24/12	TH	SW7010
Vanadium (Dissolved)	< 0.002	0.002	mg/L	10/23/12	EK	SW6010
Zinc (Dissolved)	< 0.002	0.002	mg/L	10/23/12	EK	SW6010
Iron	62.5	0.010	mg/L	10/17/12	EK	SW6010
Mercury	< 0.0002	0.0002	mg/L	10/17/12	RS	SW7470
Potassium	24.1	0.1	mg/L	10/17/12	EK	SW6010
Magnesium	104	0.10	mg/L	10/17/12	EK	SW6010
Manganese	2.66	0.010	mg/L	10/17/12	EK	SW6010
Sodium	53.7	1.0	mg/L	10/17/12	EK	SW6010
Nickel	0.054	0.001	mg/L	10/17/12	EK	SW6010
Lead	0.042	0.002	mg/L	10/17/12	EK	SW6010
Antimony	< 0.005	0.005	mg/L	10/17/12	EK	SW6010
Selenium	< 0.02	0.02	mg/L	10/17/12	EK	SW6010
Total Metal Digestion	Completed			10/18/12	AG	E200.9
Vanadium	0.076	0.002	mg/L	10/17/12	EK	SW6010
Zinc	0.227	0.002	mg/L	10/17/12	EK	SW6010
Filtration	Completed			10/23/12	AG	0.45um Filter
Dissolved Mercury Digestion	Completed			10/24/12	X/X	SW7470
Mercury Digestion	Completed			10/17/12	X/X	SW7470
PCB Extraction	Completed			10/16/12	T	SW3510C
Extraction for Pest (2 Liter)	Completed			10/16/12	T	SW3510
Semi-Volatile Extraction	Completed			10/16/12	I/X	SW3520
Dissolved Metals Preparation	Completed			10/23/12	AG	SW846-3005
Total Metals Digestion	Completed			10/16/12	AG	
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	0.10	ug/L	10/18/12	AW	608/ 8082
PCB-1221	ND	0.10	ug/L	10/18/12	AW	608/ 8082
PCB-1232	ND	0.10	ug/L	10/18/12	AW	608/ 8082
PCB-1242	ND	0.10	ug/L	10/18/12	AW	608/ 8082
PCB-1248	ND	0.10	ug/L	10/18/12	AW	608/ 8082
PCB-1254	ND	0.10	ug/L	10/18/12	AW	608/ 8082
PCB-1260	ND	0.10	ug/L	10/18/12	AW	608/ 8082
PCB-1262	ND	0.10	ug/L	10/18/12	AW	608/ 8082
PCB-1268	ND	0.10	ug/L	10/18/12	AW	608/ 8082
<u>QA/QC Surrogates</u>						
% DCBP	84		%	10/18/12	AW	30 - 150 %
% TCMX	65		%	10/18/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	0.050	ug/L	10/18/12	MH	SW8081
4,4' -DDE	ND	0.050	ug/L	10/18/12	MH	SW8081
4,4' -DDT	ND	0.050	ug/L	10/18/12	MH	SW8081
a-BHC	ND	0.025	ug/L	10/18/12	MH	SW8081
Alachlor	ND	0.075	ug/L	10/18/12	MH	SW8081
Aldrin	ND	0.002	ug/L	10/18/12	MH	SW8081
b-BHC	ND	0.005	ug/L	10/18/12	MH	SW8081
Chlordane	ND	0.30	ug/L	10/18/12	MH	SW8081
d-BHC	ND	0.025	ug/L	10/18/12	MH	SW8081

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Dieldrin	ND	0.002	ug/L	10/18/12	MH	SW8081
Endosulfan I	ND	0.050	ug/L	10/18/12	MH	SW8081
Endosulfan II	ND	0.050	ug/L	10/18/12	MH	SW8081
Endosulfan Sulfate	ND	0.050	ug/L	10/18/12	MH	SW8081
Endrin	ND	0.050	ug/L	10/18/12	MH	SW8081
Endrin Aldehyde	ND	0.050	ug/L	10/18/12	MH	SW8081
Endrin ketone	ND	0.050	ug/L	10/18/12	MH	SW8081
g-BHC (Lindane)	ND	0.025	ug/L	10/18/12	MH	SW8081
Heptachlor	ND	0.025	ug/L	10/18/12	MH	SW8081
Heptachlor epoxide	ND	0.025	ug/L	10/18/12	MH	SW8081
Methoxychlor	ND	0.10	ug/L	10/18/12	MH	SW8081
Toxaphene	ND	1.0	ug/L	10/18/12	MH	SW8081
<u>QA/QC Surrogates</u>						
%DCBP (Surrogate Rec)	87		%	10/18/12	MH	30 - 150 %
%TCMX (Surrogate Rec)	74		%	10/18/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	10/17/12	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	10/17/12	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	10/17/12	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	10/17/12	R/T	SW8260
Acetone	ND	25	ug/L	10/17/12	R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	10/17/12	R/T	SW8260
Benzene	ND	0.70	ug/L	10/17/12	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	10/17/12	R/T	SW8260
Bromoform	ND	1.0	ug/L	10/17/12	R/T	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromomethane	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Carbon Disulfide	ND	5.0	ug/L	10/17/12	R/T	SW 8260
Carbon tetrachloride	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Chlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Chloroethane	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Chloroform	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Chloromethane	ND	1.0	ug/L	10/17/12	R/T	SW 8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	10/17/12	R/T	SW 8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	10/17/12	R/T	SW 8260
Dibromochloromethane	ND	0.50	ug/L	10/17/12	R/T	SW 8260
Dibromomethane	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Dichlorodifluoromethane	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Ethylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Hexachlorobutadiene	ND	0.40	ug/L	10/17/12	R/T	SW 8260
Isopropylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW 8260
m&p-Xylene	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Methyl ethyl ketone	ND	5.0	ug/L	10/17/12	R/T	SW 8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Methylene chloride	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Naphthalene	ND	1.0	ug/L	10/17/12	R/T	SW 8260
n-Butylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW 8260
n-Propylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW 8260
o-Xylene	ND	1.0	ug/L	10/17/12	R/T	SW 8260
p-Isopropyltoluene	ND	1.0	ug/L	10/17/12	R/T	SW 8260
sec-Butylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Styrene	ND	1.0	ug/L	10/17/12	R/T	SW 8260
tert-Butylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Tetrachloroethene	1.3	1.0	ug/L	10/17/12	R/T	SW 8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	10/17/12	R/T	SW 8260
Toluene	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Total Xylenes	ND	1.0	ug/L	10/17/12	R/T	SW 8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	10/17/12	R/T	SW 8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	10/17/12	R/T	SW 8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	10/17/12	R/T	SW 8260
Trichloroethene	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Trichlorofluoromethane	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Trichlorotrifluoroethane	ND	1.0	ug/L	10/17/12	R/T	SW 8260
Vinyl chloride	ND	1.0	ug/L	10/17/12	R/T	SW 8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	10/17/12	R/T	70 - 130 %
% Bromofluorobenzene	94		%	10/17/12	R/T	70 - 130 %
% Dibromofluoromethane	96		%	10/17/12	R/T	70 - 130 %
% Toluene-d8	94		%	10/17/12	R/T	70 - 130 %
Semivolatiles						
1,2,4-Trichlorobenzene	ND	5.0	ug/L	10/18/12	DD	SW 8270
1,2-Dichlorobenzene	ND	5.0	ug/L	10/18/12	DD	SW 8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	10/18/12	DD	SW 8270
1,3-Dichlorobenzene	ND	5.0	ug/L	10/18/12	DD	SW 8270
1,4-Dichlorobenzene	ND	5.0	ug/L	10/18/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
2,4,5-Trichlorophenol	ND	10	ug/L	10/18/12	DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	10/18/12	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	10/18/12	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	10/18/12	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	10/18/12	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	10/18/12	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	10/18/12	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	10/18/12	DD	SW8270
2-Chlorophenol	ND	10	ug/L	10/18/12	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	10/18/12	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	10/18/12	DD	SW8270
2-Nitroaniline	ND	50	ug/L	10/18/12	DD	SW8270
2-Nitrophenol	ND	10	ug/L	10/18/12	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	10/18/12	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	10/18/12	DD	SW8270
3-Nitroaniline	ND	50	ug/L	10/18/12	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	10/18/12	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	10/18/12	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	10/18/12	DD	SW8270
4-Chloroaniline	ND	20	ug/L	10/18/12	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	10/18/12	DD	SW8270
4-Nitroaniline	ND	20	ug/L	10/18/12	DD	SW8270
4-Nitrophenol	ND	50	ug/L	10/18/12	DD	SW8270
Acetophenone	ND	5.0	ug/L	10/18/12	DD	SW8270
Aniline	ND	10	ug/L	10/18/12	DD	SW8270
Anthracene	ND	5.0	ug/L	10/18/12	DD	SW8270
Benzidine	ND	50	ug/L	10/18/12	DD	SW8270
Benzoic acid	ND	50	ug/L	10/18/12	DD	SW8270
Benzyl butyl phthalate	ND	5.0	ug/L	10/18/12	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	10/18/12	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	10/18/12	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	10/18/12	DD	SW8270
Carbazole	ND	5.0	ug/L	10/18/12	DD	SW8270
Dibenzofuran	ND	5.0	ug/L	10/18/12	DD	SW8270
Diethyl phthalate	ND	5.0	ug/L	10/18/12	DD	SW8270
Dimethylphthalate	ND	5.0	ug/L	10/18/12	DD	SW8270
Di-n-butylphthalate	ND	5.0	ug/L	10/18/12	DD	SW8270
Di-n-octylphthalate	ND	5.0	ug/L	10/18/12	DD	SW8270
Fluoranthene	ND	5.0	ug/L	10/18/12	DD	SW8270
Fluorene	ND	5.0	ug/L	10/18/12	DD	SW8270
Hexachlorobutadiene	ND	5.0	ug/L	10/18/12	DD	SW8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	10/18/12	DD	SW8270
Isophorone	ND	5.0	ug/L	10/18/12	DD	SW8270
Naphthalene	ND	5.0	ug/L	10/18/12	DD	SW8270
Nitrobenzene	ND	5.0	ug/L	10/18/12	DD	SW8270
N-Nitrosodimethylamine	ND	5.0	ug/L	10/18/12	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	10/18/12	DD	SW8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	10/18/12	DD	SW8270
Phenol	ND	10	ug/L	10/18/12	DD	SW8270
Pyrene	ND	5.0	ug/L	10/18/12	DD	SW8270

Project ID: 491 EAST 165TH ST.
Client ID: GW-2

Phoenix I.D.: BC83711

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	120		%	10/18/12	DD	30 - 130 %
% 2-Fluorobiphenyl	77		%	10/18/12	DD	40 - 140 %
% 2-Fluorophenol	71		%	10/18/12	DD	15 - 130 %
% Nitrobenzene-d5	92		%	10/18/12	DD	40 - 140 %
% Phenol-d5	43		%	10/18/12	DD	15 - 130 %
% Terphenyl-d14	95		%	10/18/12	DD	40 - 140 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	10/17/12	DD	SW 8270 (SIM)
Acenaphthene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Acenaphthylene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Benz(a)anthracene	0.04	0.040	ug/L	10/17/12	DD	SW 8270 (SIM)
Benzo(a)pyrene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Benzo(b)fluoranthene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	10/17/12	DD	SW 8270 (SIM)
Benzo(k)fluoranthene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	10/17/12	DD	SW 8270 (SIM)
Chrysene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	10/17/12	DD	SW 8270 (SIM)
Hexachlorobenzene	ND	0.060	ug/L	10/17/12	DD	SW 8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	10/17/12	DD	SW 8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	10/17/12	DD	SW 8270 (SIM)
Pentachlorophenol	ND	0.80	ug/L	10/17/12	DD	SW 8270 (SIM)
Phenanthrene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Pyridine	ND	0.50	ug/L	10/17/12	DD	SW 8270 (SIM)
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	120		%	10/17/12	DD	15 - 130 %
% 2-Fluorobiphenyl	77		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	71		%	10/17/12	DD	15 - 130 %
% Nitrobenzene-d5	92		%	10/17/12	DD	40 - 140 %
% Phenol-d5	43		%	10/17/12	DD	15 - 130 %
% Terphenyl-d14	95		%	10/17/12	DD	40 - 140 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: GROUND WATER
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date Time
 10/15/12 17:30
 10/16/12 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83712

Project ID: 491 EAST 165TH ST.
 Client ID: GW-3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	10/17/12	EK	SW6010
Aluminum	12.1	0.010	mg/L	10/17/12	EK	SW6010
Arsenic	< 0.004	0.004	mg/L	10/17/12	EK	SW6010
Barium	1.03	0.002	mg/L	10/17/12	EK	SW6010
Beryllium	< 0.001	0.001	mg/L	10/17/12	EK	SW6010
Calcium	93.5	0.010	mg/L	10/17/12	EK	SW6010
Cadmium	< 0.001	0.001	mg/L	10/17/12	EK	SW6010
Cobalt	0.017	0.002	mg/L	10/17/12	EK	SW6010
Chromium	0.040	0.001	mg/L	10/17/12	EK	SW6010
Copper	0.059	0.005	mg/L	10/17/12	EK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	10/22/12	EK	SW6010
Aluminum (Dissolved)	< 0.01	0.01	mg/L	10/22/12	EK	SW6010
Arsenic (Dissolved)	0.009	0.004	mg/L	10/22/12	EK	SW6010
Barium (Dissolved)	0.059	0.002	mg/L	10/22/12	EK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	10/22/12	EK	SW6010
Calcium (Dissolved)	62.5	0.01	mg/L	10/22/12	EK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	10/22/12	EK	SW6010
Cobalt (Dissolved)	< 0.001	0.001	mg/L	10/22/12	EK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	10/22/12	EK	SW6010
Copper (Dissolved)	< 0.005	0.005	mg/L	10/22/12	EK	SW6010
Iron (Dissolved)	0.017	0.011	mg/L	10/22/12	EK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	10/22/12	JA	SW7470
Potassium (Dissolved)	4.5	0.1	mg/L	10/22/12	EK	SW6010
Magnesium (Dissolved)	20.6	0.01	mg/L	10/22/12	EK	SW6010
Manganese (Dissolved)	0.011	0.001	mg/L	10/22/12	EK	SW6010
Sodium (Dissolved)	45.5	0.11	mg/L	10/22/12	EK	SW6010
Nickel (Dissolved)	< 0.001	0.001	mg/L	10/22/12	EK	SW6010
Lead (Dissolved)	< 0.002	0.002	mg/L	10/22/12	EK	SW6010

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Antimony (Dissolved)	< 0.005	0.005	mg/L	10/22/12	EK	SW6010
Selenium (Dissolved)	< 0.011	0.011	mg/L	10/23/12	LK	SW6010
Thallium (Dissolved)	< 0.002	0.002	mg/L	10/23/12	PS	SW6010
Vanadium (Dissolved)	< 0.002	0.002	mg/L	10/22/12	EK	SW6010
Zinc (Dissolved)	0.007	0.002	mg/L	10/22/12	EK	SW6010
Iron	27.6	0.010	mg/L	10/17/12	EK	SW6010
Mercury	< 0.0002	0.0002	mg/L	10/17/12	RS	SW7470
Potassium	9.3	0.1	mg/L	10/17/12	EK	SW6010
Magnesium	32.3	0.01	mg/L	10/17/12	EK	SW6010
Manganese	0.847	0.001	mg/L	10/17/12	EK	SW6010
Sodium	56.5	1.0	mg/L	10/17/12	EK	SW6010
Nickel	0.031	0.001	mg/L	10/17/12	EK	SW6010
Lead	0.141	0.002	mg/L	10/17/12	EK	SW6010
Antimony	< 0.005	0.005	mg/L	10/17/12	EK	SW6010
Selenium	< 0.010	0.010	mg/L	10/17/12	EK	SW6010
Total Metal Digestion	Completed			10/18/12	AG	E200.9
Vanadium	0.040	0.002	mg/L	10/17/12	EK	SW6010
Zinc	0.402	0.002	mg/L	10/17/12	EK	SW6010
Filtration	Completed			10/22/12	AG	0.45um Filter
Dissolved Mercury Digestion	Completed			10/22/12	X/X	SW7470
Mercury Digestion	Completed			10/17/12	X/X	SW7470
PCB Extraction	Completed			10/16/12	T	SW3510C
Extraction for Pest (2 Liter)	Completed			10/16/12	T	SW3510
Semi-Volatile Extraction	Completed			10/16/12	VX	SW3520
Dissolved Metals Preparation	Completed			10/22/12	AG	SW846-3005
Total Metals Digestion	Completed			10/16/12	AG	

Polychlorinated Biphenyls

PCB-1016	ND	0.10	ug/L	10/19/12	AW	608/ 8082
PCB-1221	ND	0.10	ug/L	10/19/12	AW	608/ 8082
PCB-1232	ND	0.10	ug/L	10/19/12	AW	608/ 8082
PCB-1242	ND	0.10	ug/L	10/19/12	AW	608/ 8082
PCB-1248	ND	0.10	ug/L	10/19/12	AW	608/ 8082
PCB-1254	ND	0.10	ug/L	10/19/12	AW	608/ 8082
PCB-1260	ND	0.10	ug/L	10/19/12	AW	608/ 8082
PCB-1262	ND	0.10	ug/L	10/19/12	AW	608/ 8082
PCB-1268	ND	0.10	ug/L	10/19/12	AW	608/ 8082

QA/QC Surrogates

% DCBP	88		%	10/19/12	AW	30 - 150 %
% TCMX	70		%	10/19/12	AW	30 - 150 %

Pesticides

4,4' -DDD	ND	0.050	ug/L	10/18/12	MH	SW8081
4,4' -DDE	0.12	0.050	ug/L	10/18/12	MH	SW8081
4,4' -DDT	0.74	0.050	ug/L	10/18/12	MH	SW8081
a-BHC	ND	0.025	ug/L	10/18/12	MH	SW8081
Alachlor	ND	0.075	ug/L	10/18/12	MH	SW8081
Aldrin	0.003	0.002	ug/L	10/18/12	MH	SW8081
b-BHC	ND	0.005	ug/L	10/18/12	MH	SW8081
Chlordane	0.36	0.30	ug/L	10/18/12	MH	SW8081
d-BHC	ND	0.025	ug/L	10/18/12	MH	SW8081

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Dieldrin	0.057	0.002	ug/L	10/18/12	MH	SW8081
Endosulfan I	ND	0.050	ug/L	10/18/12	MH	SW8081
Endosulfan II	ND	0.050	ug/L	10/18/12	MH	SW8081
Endosulfan Sulfate	ND	0.050	ug/L	10/18/12	MH	SW8081
Endrin	ND	0.050	ug/L	10/18/12	MH	SW8081
Endrin Aldehyde	ND	0.050	ug/L	10/18/12	MH	SW8081
Endrin ketone	ND	0.050	ug/L	10/18/12	MH	SW8081
g-BHC (Lindane)	ND	0.025	ug/L	10/18/12	MH	SW8081
Heptachlor	ND	0.025	ug/L	10/18/12	MH	SW8081
Heptachlor epoxide	ND	0.025	ug/L	10/18/12	MH	SW8081
Methoxychlor	ND	0.10	ug/L	10/18/12	MH	SW8081
Toxaphene	ND	1.0	ug/L	10/18/12	MH	SW8081
QA/QC Surrogates						
%DCBP (Surrogate Rec)	81		%	10/18/12	MH	30 - 150 %
%TCMX (Surrogate Rec)	76		%	10/18/12	MH	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	10/17/12	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	10/17/12	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	10/17/12	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	10/17/12	R/T	SW8260
Acetone	ND	25	ug/L	10/17/12	R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	10/17/12	R/T	SW8260
Benzene	ND	0.70	ug/L	10/17/12	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	10/17/12	R/T	SW8260
Bromoform	ND	1.0	ug/L	10/17/12	R/T	SW8260

Project ID: 491 EAST 165TH ST.
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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromomethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	10/17/12	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	10/17/12	R/T	SW8260
Chlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Chloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Chloroform	33	1.0	ug/L	10/17/12	R/T	SW8260
Chloromethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	10/17/12	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	10/17/12	R/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	10/17/12	R/T	SW8260
Dibromomethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Ethylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	10/17/12	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	10/17/12	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	10/17/12	R/T	SW8260
Methylene chloride	ND	1.0	ug/L	10/17/12	R/T	SW8260
Naphthalene	ND	1.0	ug/L	10/17/12	R/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
o-Xylene	ND	1.0	ug/L	10/17/12	R/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Styrene	ND	1.0	ug/L	10/17/12	R/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Tetrachloroethene	1.8	1.0	ug/L	10/17/12	R/T	SW8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	10/17/12	R/T	SW8260
Toluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	10/17/12	R/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	10/17/12	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	10/17/12	R/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	10/17/12	R/T	SW8260
Trichloroethene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	10/17/12	R/T	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	10/17/12	R/T	70 - 130 %
% Bromofluorobenzene	93		%	10/17/12	R/T	70 - 130 %
% Dibromofluoromethane	96		%	10/17/12	R/T	70 - 130 %
% Toluene-d8	93		%	10/17/12	R/T	70 - 130 %
Semivolatiles						
1,2,4-Trichlorobenzene	ND	5.0	ug/L	10/18/12	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	10/18/12	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	10/18/12	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	10/18/12	DD	SW8270
1,4-Dichlorobenzene	ND	5.0	ug/L	10/18/12	DD	SW8270

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
2,4,5-Trichlorophenol	ND	10	ug/L	10/18/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	10	ug/L	10/18/12	DD	SW 8270
2,4-Dichlorophenol	ND	10	ug/L	10/18/12	DD	SW 8270
2,4-Dimethylphenol	ND	10	ug/L	10/18/12	DD	SW 8270
2,4-Dinitrophenol	ND	50	ug/L	10/18/12	DD	SW 8270
2,4-Dinitrotoluene	ND	5.0	ug/L	10/18/12	DD	SW 8270
2,6-Dinitrotoluene	ND	5.0	ug/L	10/18/12	DD	SW 8270
2-Chloronaphthalene	ND	5.0	ug/L	10/18/12	DD	SW 8270
2-Chlorophenol	ND	10	ug/L	10/18/12	DD	SW 8270
2-Methylnaphthalene	ND	5.0	ug/L	10/18/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	10	ug/L	10/18/12	DD	SW 8270
2-Nitroaniline	ND	50	ug/L	10/18/12	DD	SW 8270
2-Nitrophenol	ND	10	ug/L	10/18/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	10/18/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	50	ug/L	10/18/12	DD	SW 8270
3-Nitroaniline	ND	50	ug/L	10/18/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	10/18/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	10/18/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	20	ug/L	10/18/12	DD	SW 8270
4-Chloroaniline	ND	20	ug/L	10/18/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	10/18/12	DD	SW 8270
4-Nitroaniline	ND	20	ug/L	10/18/12	DD	SW 8270
4-Nitrophenol	ND	50	ug/L	10/18/12	DD	SW 8270
Acetophenone	ND	5.0	ug/L	10/18/12	DD	SW 8270
Aniline	ND	10	ug/L	10/18/12	DD	SW 8270
Anthracene	ND	5.0	ug/L	10/18/12	DD	SW 8270
Benzidine	ND	50	ug/L	10/18/12	DD	SW 8270
Benzoic acid	ND	50	ug/L	10/18/12	DD	SW 8270
Benzyl butyl phthalate	ND	5.0	ug/L	10/18/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	10/18/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	10/18/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	10/18/12	DD	SW 8270
Carbazole	ND	5.0	ug/L	10/18/12	DD	SW 8270
Dibenzofuran	ND	5.0	ug/L	10/18/12	DD	SW 8270
Diethyl phthalate	ND	5.0	ug/L	10/18/12	DD	SW 8270
Dimethylphthalate	ND	5.0	ug/L	10/18/12	DD	SW 8270
Di-n-butylphthalate	ND	5.0	ug/L	10/18/12	DD	SW 8270
Di-n-octylphthalate	ND	5.0	ug/L	10/18/12	DD	SW 8270
Fluoranthene	ND	5.0	ug/L	10/18/12	DD	SW 8270
Fluorene	ND	5.0	ug/L	10/18/12	DD	SW 8270
Hexachlorobutadiene	ND	5.0	ug/L	10/18/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	10/18/12	DD	SW 8270
Isophorone	ND	5.0	ug/L	10/18/12	DD	SW 8270
Naphthalene	ND	5.0	ug/L	10/18/12	DD	SW 8270
Nitrobenzene	ND	5.0	ug/L	10/18/12	DD	SW 8270
N-Nitrosodimethylamine	ND	5.0	ug/L	10/18/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	10/18/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	10/18/12	DD	SW 8270
Phenol	ND	10	ug/L	10/18/12	DD	SW 8270
Pyrene	ND	5.0	ug/L	10/18/12	DD	SW 8270

Project ID: 491 EAST 165TH ST.
Client ID: GW-3

Phoenix I.D.: BC83712

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	125		%	10/18/12	DD	30 - 130 %
% 2-Fluorobiphenyl	83		%	10/18/12	DD	40 - 140 %
% 2-Fluorophenol	72		%	10/18/12	DD	15 - 130 %
% Nitrobenzene-d5	89		%	10/18/12	DD	40 - 140 %
% Phenol-d5	80		%	10/18/12	DD	15 - 130 %
% Terphenyl-d14	89		%	10/18/12	DD	40 - 140 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	10/17/12	DD	SW 8270 (SIM)
Acenaphthene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Acenaphthylene	0.07	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Benz(a)anthracene	0.59	0.040	ug/L	10/17/12	DD	SW 8270 (SIM)
Benzo(a)pyrene	0.45	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Benzo(b)fluoranthene	0.64	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	10/17/12	DD	SW 8270 (SIM)
Benzo(k)fluoranthene	0.23	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Bis(2-ethylhexyl)phthalate	3.9	1.6	ug/L	10/17/12	DD	SW 8270 (SIM)
Chrysene	0.62	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Dibenz(a,h)anthracene	0.08	0.010	ug/L	10/17/12	DD	SW 8270 (SIM)
Hexachlorobenzene	ND	0.060	ug/L	10/17/12	DD	SW 8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	10/17/12	DD	SW 8270 (SIM)
Indeno(1,2,3-cd)pyrene	0.25	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	10/17/12	DD	SW 8270 (SIM)
Pentachlorophenol	ND	0.80	ug/L	10/17/12	DD	SW 8270 (SIM)
Phenanthrene	0.68	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Pyridine	ND	0.50	ug/L	10/17/12	DD	SW 8270 (SIM)
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	125		%	10/17/12	DD	15 - 130 %
% 2-Fluorobiphenyl	83		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	72		%	10/17/12	DD	15 - 130 %
% Nitrobenzene-d5	89		%	10/17/12	DD	40 - 140 %
% Phenol-d5	80		%	10/17/12	DD	15 - 130 %
% Terphenyl-d14	89		%	10/17/12	DD	40 - 140 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200
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Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: GROUND WATER
 Location Code: AEAS-INC
 Rush Request: 24 Hour
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date Time
 10/15/12 18:00
 10/16/12 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83713

Project ID: 491 EAST 165TH ST.
 Client ID: GW-4

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	10/23/12	EK	SW6010
Aluminum	26.6	0.010	mg/L	10/23/12	EK	SW6010
Arsenic	0.006	0.004	mg/L	10/23/12	EK	SW6010
Barium	0.291	0.002	mg/L	10/23/12	EK	SW6010
Beryllium	0.003	0.001	mg/L	10/23/12	EK	SW6010
Calcium	246	0.10	mg/L	10/23/12	EK	SW6010
Cadmium	< 0.001	0.001	mg/L	10/23/12	EK	SW6010
Cobalt	0.030	0.002	mg/L	10/23/12	EK	SW6010
Chromium	0.058	0.001	mg/L	10/23/12	EK	SW6010
Copper	0.091	0.005	mg/L	10/23/12	EK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	10/22/12	EK	SW6010
Aluminum (Dissolved)	0.11	0.01	mg/L	10/22/12	EK	SW6010
Arsenic (Dissolved)	0.005	0.004	mg/L	10/22/12	EK	SW6010
Barium (Dissolved)	0.022	0.002	mg/L	10/22/12	EK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	10/22/12	EK	SW6010
Calcium (Dissolved)	46.8	0.01	mg/L	10/22/12	EK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	10/22/12	EK	SW6010
Cobalt (Dissolved)	< 0.001	0.001	mg/L	10/22/12	EK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	10/22/12	EK	SW6010
Copper (Dissolved)	< 0.005	0.005	mg/L	10/22/12	EK	SW6010
Iron (Dissolved)	0.137	0.011	mg/L	10/22/12	EK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	10/22/12	JA	SW7470
Potassium (Dissolved)	3.4	0.1	mg/L	10/22/12	EK	SW6010
Magnesium (Dissolved)	15.1	0.01	mg/L	10/22/12	EK	SW6010
Manganese (Dissolved)	0.004	0.001	mg/L	10/22/12	EK	SW6010
Sodium (Dissolved)	31.6	0.11	mg/L	10/22/12	EK	SW6010
Nickel (Dissolved)	< 0.001	0.001	mg/L	10/22/12	EK	SW6010
Lead (Dissolved)	0.004	0.002	mg/L	10/22/12	EK	SW6010

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Antimony (Dissolved)	< 0.005	0.005	mg/L	10/22/12	EK	SW6010
Selenium (Dissolved)	< 0.011	0.011	mg/L	10/22/12	EK	SW6010
Thallium (Dissolved)	< 0.002	0.002	mg/L	10/24/12	TH	SW7010
Vanadium (Dissolved)	< 0.002	0.002	mg/L	10/22/12	EK	SW6010
Zinc (Dissolved)	< 0.002	0.002	mg/L	10/22/12	EK	SW6010
Iron	56.3	0.010	mg/L	10/23/12	EK	SW6010
Mercury	< 0.0002	0.0002	mg/L	10/24/12	JA	SW7470
Potassium	23.7	0.1	mg/L	10/23/12	EK	SW6010
Magnesium	95.1	0.10	mg/L	10/23/12	EK	SW6010
Manganese	2.28	0.010	mg/L	10/23/12	EK	SW6010
Sodium	45.6	0.1	mg/L	10/23/12	EK	SW6010
Nickel	0.047	0.001	mg/L	10/23/12	EK	SW6010
Lead	0.046	0.002	mg/L	10/23/12	EK	SW6010
Antimony	< 0.005	0.005	mg/L	10/23/12	EK	SW6010
Selenium	< 0.010	0.010	mg/L	10/23/12	EK	SW6010
Vanadium	0.068	0.002	mg/L	10/23/12	EK	SW6010
Zinc	0.290	0.002	mg/L	10/23/12	EK	SW6010
Filtration	Completed			10/22/12	AG	0.45um Filter
Dissolved Mercury Digestion	Completed			10/22/12	X/X	SW7470
Mercury Digestion	Completed			10/24/12	X/X	SW7470
PCB Extraction	Completed			10/16/12	T	SW3510C
Extraction for Pest (2 Liter)	Completed			10/16/12	T	SW3510
Semi-Volatile Extraction	Completed			10/16/12	I/X	SW3520
Dissolved Metals Preparation	Completed			10/22/12	AG	SW846-3005
Total Metals Digestion	Completed			10/23/12	AG	
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	0.10	ug/L	10/18/12	AW	608/ 8082
PCB-1221	ND	0.10	ug/L	10/18/12	AW	608/ 8082
PCB-1232	ND	0.10	ug/L	10/18/12	AW	608/ 8082
PCB-1242	ND	0.10	ug/L	10/18/12	AW	608/ 8082
PCB-1248	ND	0.10	ug/L	10/18/12	AW	608/ 8082
PCB-1254	ND	0.10	ug/L	10/18/12	AW	608/ 8082
PCB-1260	ND	0.10	ug/L	10/18/12	AW	608/ 8082
PCB-1262	ND	0.10	ug/L	10/18/12	AW	608/ 8082
PCB-1268	ND	0.10	ug/L	10/18/12	AW	608/ 8082
<u>QA/QC Surrogates</u>						
% DCBP	85		%	10/18/12	AW	30 - 150 %
% TCMX	64		%	10/18/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	0.050	ug/L	10/18/12	MH	SW8081
4,4' -DDE	ND	0.050	ug/L	10/18/12	MH	SW8081
4,4' -DDT	ND	0.050	ug/L	10/18/12	MH	SW8081
a-BHC	ND	0.025	ug/L	10/18/12	MH	SW8081
Alachlor	ND	0.075	ug/L	10/18/12	MH	SW8081
Aldrin	ND	0.002	ug/L	10/18/12	MH	SW8081
b-BHC	ND	0.005	ug/L	10/18/12	MH	SW8081
Chlordane	ND	0.30	ug/L	10/18/12	MH	SW8081
d-BHC	ND	0.025	ug/L	10/18/12	MH	SW8081
Dieldrin	ND	0.002	ug/L	10/18/12	MH	SW8081

Project ID: 491 EAST 165TH ST.
 Client ID: GW-4

Phoenix I.D.: BC83713

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Endosulfan I	ND	0.050	ug/L	10/18/12	MH	SW8081
Endosulfan II	ND	0.050	ug/L	10/18/12	MH	SW8081
Endosulfan Sulfate	ND	0.050	ug/L	10/18/12	MH	SW8081
Endrin	ND	0.050	ug/L	10/18/12	MH	SW8081
Endrin Aldehyde	ND	0.050	ug/L	10/18/12	MH	SW8081
Endrin ketone	ND	0.050	ug/L	10/18/12	MH	SW8081
g-BHC (Lindane)	ND	0.025	ug/L	10/18/12	MH	SW8081
Heptachlor	ND	0.025	ug/L	10/18/12	MH	SW8081
Heptachlor epoxide	ND	0.025	ug/L	10/18/12	MH	SW8081
Methoxychlor	ND	0.10	ug/L	10/18/12	MH	SW8081
Toxaphene	ND	1.0	ug/L	10/18/12	MH	SW8081
QA/QC Surrogates						
%DCBP (Surrogate Rec)	84		%	10/18/12	MH	30 - 150 %
%TCMX (Surrogate Rec)	69		%	10/18/12	MH	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	10/17/12	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	10/17/12	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	10/17/12	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	10/17/12	R/T	SW8260
Acetone	ND	25	ug/L	10/17/12	R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	10/17/12	R/T	SW8260
Benzene	ND	0.70	ug/L	10/17/12	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	10/17/12	R/T	SW8260
Bromoform	ND	1.0	ug/L	10/17/12	R/T	SW8260
Bromomethane	ND	1.0	ug/L	10/17/12	R/T	SW8260

Project ID: 491 EAST 165TH ST.
 Client ID: GW-4

Phoenix I.D.: BC83713

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Carbon Disulfide	ND	5.0	ug/L	10/17/12	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	10/17/12	R/T	SW8260
Chlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Chloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Chloroform	29	1.0	ug/L	10/17/12	R/T	SW8260
Chloromethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	10/17/12	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	10/17/12	R/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	10/17/12	R/T	SW8260
Dibromomethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Ethylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	10/17/12	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	10/17/12	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	10/17/12	R/T	SW8260
Methylene chloride	ND	1.0	ug/L	10/17/12	R/T	SW8260
Naphthalene	ND	1.0	ug/L	10/17/12	R/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
o-Xylene	ND	1.0	ug/L	10/17/12	R/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Styrene	ND	1.0	ug/L	10/17/12	R/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Tetrachloroethene	4.2	1.0	ug/L	10/17/12	R/T	SW8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	10/17/12	R/T	SW8260
Toluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	10/17/12	R/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	10/17/12	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	10/17/12	R/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	10/17/12	R/T	SW8260
Trichloroethene	1.2	1.0	ug/L	10/17/12	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	10/17/12	R/T	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	10/17/12	R/T	70 - 130 %
% Bromofluorobenzene	93		%	10/17/12	R/T	70 - 130 %
% Dibromofluoromethane	98		%	10/17/12	R/T	70 - 130 %
% Toluene-d8	94		%	10/17/12	R/T	70 - 130 %
Semivolatiles						
1,2,4-Trichlorobenzene	ND	5.0	ug/L	10/18/12	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	10/18/12	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	10/18/12	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	10/18/12	DD	SW8270
1,4-Dichlorobenzene	ND	5.0	ug/L	10/18/12	DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	10/18/12	DD	SW8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
2,4,6-Trichlorophenol	ND	10	ug/L	10/18/12	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	10/18/12	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	10/18/12	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	10/18/12	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	10/18/12	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	10/18/12	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	10/18/12	DD	SW8270
2-Chlorophenol	ND	10	ug/L	10/18/12	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	10/18/12	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	10/18/12	DD	SW8270
2-Nitroaniline	ND	50	ug/L	10/18/12	DD	SW8270
2-Nitrophenol	ND	10	ug/L	10/18/12	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	10/18/12	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	10/18/12	DD	SW8270
3-Nitroaniline	ND	50	ug/L	10/18/12	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	10/18/12	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	10/18/12	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	10/18/12	DD	SW8270
4-Chloroaniline	ND	20	ug/L	10/18/12	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	10/18/12	DD	SW8270
4-Nitroaniline	ND	20	ug/L	10/18/12	DD	SW8270
4-Nitrophenol	ND	50	ug/L	10/18/12	DD	SW8270
Acetophenone	ND	5.0	ug/L	10/18/12	DD	SW8270
Aniline	ND	10	ug/L	10/18/12	DD	SW8270
Anthracene	ND	5.0	ug/L	10/18/12	DD	SW8270
Benzidine	ND	50	ug/L	10/18/12	DD	SW8270
Benzoic acid	ND	50	ug/L	10/18/12	DD	SW8270
Benzyl butyl phthalate	ND	5.0	ug/L	10/18/12	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	10/18/12	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	10/18/12	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	10/18/12	DD	SW8270
Carbazole	ND	5.0	ug/L	10/18/12	DD	SW8270
Dibenzofuran	ND	5.0	ug/L	10/18/12	DD	SW8270
Diethyl phthalate	ND	5.0	ug/L	10/18/12	DD	SW8270
Dimethylphthalate	ND	5.0	ug/L	10/18/12	DD	SW8270
Di-n-butylphthalate	ND	5.0	ug/L	10/18/12	DD	SW8270
Di-n-octylphthalate	ND	5.0	ug/L	10/18/12	DD	SW8270
Fluoranthene	ND	5.0	ug/L	10/18/12	DD	SW8270
Fluorene	ND	5.0	ug/L	10/18/12	DD	SW8270
Hexachlorobutadiene	ND	5.0	ug/L	10/18/12	DD	SW8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	10/18/12	DD	SW8270
Isophorone	ND	5.0	ug/L	10/18/12	DD	SW8270
Naphthalene	ND	5.0	ug/L	10/18/12	DD	SW8270
Nitrobenzene	ND	5.0	ug/L	10/18/12	DD	SW8270
N-Nitrosodimethylamine	ND	5.0	ug/L	10/18/12	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	10/18/12	DD	SW8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	10/18/12	DD	SW8270
Phenol	ND	10	ug/L	10/18/12	DD	SW8270
Pyrene	ND	5.0	ug/L	10/18/12	DD	SW8270

QA/QC Surrogates

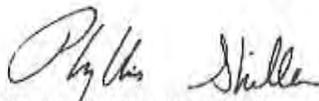
Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2,4,6-Tribromophenol	99		%	10/18/12	DD	30 - 130 %
% 2-Fluorobiphenyl	80		%	10/18/12	DD	40 - 140 %
% 2-Fluorophenol	54		%	10/18/12	DD	15 - 130 %
% Nitrobenzene-d5	91		%	10/18/12	DD	40 - 140 %
% Phenol-d5	54		%	10/18/12	DD	15 - 130 %
% Terphenyl-d14	98		%	10/18/12	DD	40 - 140 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	10/17/12	DD	SW 8270 (SIM)
Acenaphthene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Acenaphthylene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Benz(a)anthracene	ND	0.040	ug/L	10/17/12	DD	SW 8270 (SIM)
Benzo(a)pyrene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Benzo(b)fluoranthene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	10/17/12	DD	SW 8270 (SIM)
Benzo(k)fluoranthene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	10/17/12	DD	SW 8270 (SIM)
Chrysene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	10/17/12	DD	SW 8270 (SIM)
Hexachlorobenzene	ND	0.060	ug/L	10/17/12	DD	SW 8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	10/17/12	DD	SW 8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	10/17/12	DD	SW 8270 (SIM)
Pentachlorophenol	ND	0.80	ug/L	10/17/12	DD	SW 8270 (SIM)
Phenanthrene	ND	0.050	ug/L	10/17/12	DD	SW 8270 (SIM)
Pyridine	ND	0.50	ug/L	10/17/12	DD	SW 8270 (SIM)
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	99		%	10/17/12	DD	15 - 130 %
% 2-Fluorobiphenyl	80		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	54		%	10/17/12	DD	15 - 130 %
% Nitrobenzene-d5	91		%	10/17/12	DD	40 - 140 %
% Phenol-d5	54		%	10/17/12	DD	15 - 130 %
% Terphenyl-d14	98		%	10/17/12	DD	40 - 140 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Bellow Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: GROUND WATER
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

10/15/12
 10/16/12

Time

17:30
 15:33

Laboratory Data

SDG ID: GBC83695
 Phoenix ID: BC83714

Project ID: 491 EAST 165TH ST.
 Client ID: FIELD DUPLICATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	10/17/12	EK	SW6010
Aluminum	145	0.10	mg/L	10/17/12	EK	SW6010
Arsenic	0.032	0.004	mg/L	10/17/12	EK	SW6010
Barium	15.7	0.002	mg/L	10/17/12	EK	SW6010
Beryllium	0.009	0.001	mg/L	10/17/12	EK	SW6010
Calcium	455	0.10	mg/L	10/17/12	EK	SW6010
Cadmium	0.005	0.001	mg/L	10/17/12	EK	SW6010
Cobalt	0.285	0.002	mg/L	10/17/12	EK	SW6010
Chromium	0.519	0.001	mg/L	10/17/12	EK	SW6010
Copper	1.04	0.005	mg/L	10/17/12	EK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	10/22/12	EK	SW6010
Aluminum (Dissolved)	0.04	0.01	mg/L	10/22/12	EK	SW6010
Arsenic (Dissolved)	< 0.004	0.004	mg/L	10/22/12	EK	SW6010
Barium (Dissolved)	0.058	0.002	mg/L	10/22/12	EK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	10/22/12	EK	SW6010
Calcium (Dissolved)	63.7	0.01	mg/L	10/22/12	EK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	10/22/12	EK	SW6010
Cobalt (Dissolved)	< 0.001	0.001	mg/L	10/22/12	EK	SW6010
Chromium (Dissolved)	0.001	0.001	mg/L	10/22/12	EK	SW6010
Copper (Dissolved)	< 0.005	0.005	mg/L	10/22/12	EK	SW6010
Iron (Dissolved)	0.020	0.011	mg/L	10/22/12	EK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	10/22/12	JA	SW7470
Potassium (Dissolved)	4.4	0.1	mg/L	10/22/12	EK	SW6010
Magnesium (Dissolved)	18.7	0.01	mg/L	10/22/12	EK	SW6010
Manganese (Dissolved)	0.022	0.001	mg/L	10/22/12	EK	SW6010
Sodium (Dissolved)	42.5	0.11	mg/L	10/22/12	EK	SW6010
Nickel (Dissolved)	0.001	0.001	mg/L	10/22/12	EK	SW6010
Lead (Dissolved)	< 0.002	0.002	mg/L	10/22/12	EK	SW6010

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Antimony (Dissolved)	< 0.005	0.005	mg/L	10/22/12	EK	SW6010
Selenium (Dissolved)	< 0.011	0.011	mg/L	10/23/12	LK	SW6010
Thallium (Dissolved)	< 0.002	0.002	mg/L	10/22/12	PS	SW6010
Vanadium (Dissolved)	< 0.002	0.002	mg/L	10/22/12	EK	SW6010
Zinc (Dissolved)	0.005	0.002	mg/L	10/22/12	EK	SW6010
Iron	399	0.10	mg/L	10/17/12	EK	SW6010
Mercury	< 0.0002	0.0002	mg/L	10/17/12	RS	SW7470
Potassium	48.5	1.0	mg/L	10/17/12	EK	SW6010
Magnesium	144	0.10	mg/L	10/17/12	EK	SW6010
Manganese	16.4	0.010	mg/L	10/17/12	EK	SW6010
Sodium	52.5	1.0	mg/L	10/17/12	EK	SW6010
Nickel	0.439	0.001	mg/L	10/17/12	EK	SW6010
Lead	2.51	0.020	mg/L	10/17/12	EK	SW6010
Antimony	< 0.005	0.005	mg/L	10/17/12	EK	SW6010
Selenium	< 0.010	0.010	mg/L	10/17/12	EK	SW6010
Total Metal Digestion	Completed			10/18/12	AG	E200.9
Vanadium	0.512	0.002	mg/L	10/17/12	EK	SW6010
Zinc	7.32	0.020	mg/L	10/17/12	EK	SW6010
Filtration	Completed			10/22/12	AG	0.45um Filter
Dissolved Mercury Digestion	Completed			10/22/12	X/X	SW7470
Mercury Digestion	Completed			10/17/12	X/X	SW7470
PCB Extraction	Completed			10/16/12	T	SW3510C
Extraction for Pest (2 Liter)	Completed			10/16/12	T	SW3510
Semi-Volatile Extraction	Completed			10/16/12	I/X	SW3520
Dissolved Metals Preparation	Completed			10/22/12	AG	SW846-3005
Total Metals Digestion	Completed			10/16/12	AG	

Polychlorinated Biphenyls

PCB-1016	ND	1.0	ug/L	10/19/12	AW	608/ 8082
PCB-1221	ND	1.0	ug/L	10/19/12	AW	608/ 8082
PCB-1232	ND	1.0	ug/L	10/19/12	AW	608/ 8082
PCB-1242	ND	1.0	ug/L	10/19/12	AW	608/ 8082
PCB-1248	ND	1.0	ug/L	10/19/12	AW	608/ 8082
PCB-1254	ND	1.0	ug/L	10/19/12	AW	608/ 8082
PCB-1260	ND	1.0	ug/L	10/19/12	AW	608/ 8082
PCB-1262	ND	1.0	ug/L	10/19/12	AW	608/ 8082
PCB-1268	ND	1.0	ug/L	10/19/12	AW	608/ 8082

QA/QC Surrogates

% DCBP	94		%	10/19/12	AW	30 - 150 %
% TCMX	76		%	10/19/12	AW	30 - 150 %

Pesticides

4,4' -DDD	0.78	0.50	ug/L	10/18/12	MH	SW8081
4,4' -DDE	2.2	0.50	ug/L	10/18/12	MH	SW8081
4,4' -DDT	14	0.50	ug/L	10/18/12	MH	SW8081
a-BHC	ND	0.25	ug/L	10/18/12	MH	SW8081
Alachlor	ND	0.75	ug/L	10/18/12	MH	SW8081
Aldrin	ND	0.015	ug/L	10/18/12	MH	SW8081
b-BHC	ND	0.050	ug/L	10/18/12	MH	SW8081
Chlordane	7.2	3.0	ug/L	10/18/12	MH	SW8081
d-BHC	ND	0.25	ug/L	10/18/12	MH	SW8081

Project ID: 491 EAST 165TH ST.
 Client ID: FIELD DUPLICATE

Phoenix I.D.: BC83714

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Dieldrin	0.94	0.015	ug/L	10/18/12	MH	SW8081
Endosulfan I	ND	0.50	ug/L	10/18/12	MH	SW8081
Endosulfan II	ND	0.50	ug/L	10/18/12	MH	SW8081
Endosulfan Sulfate	ND	0.50	ug/L	10/18/12	MH	SW8081
Endrin	ND	0.50	ug/L	10/18/12	MH	SW8081
Endrin Aldehyde	ND	0.50	ug/L	10/18/12	MH	SW8081
Endrin ketone	ND	0.50	ug/L	10/18/12	MH	SW8081
g-BHC (Lindane)	ND	0.25	ug/L	10/18/12	MH	SW8081
Heptachlor	ND	0.25	ug/L	10/18/12	MH	SW8081
Heptachlor epoxide	ND	0.25	ug/L	10/18/12	MH	SW8081
Methoxychlor	ND	1.0	ug/L	10/18/12	MH	SW8081
Toxaphene	ND	10	ug/L	10/18/12	MH	SW8081
QA/QC Surrogates						
%DCBP (Surrogate Rec)	114		%	10/18/12	MH	30 - 150 %
%TCMX (Surrogate Rec)	130		%	10/18/12	MH	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	10/17/12	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	10/17/12	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	10/17/12	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	10/17/12	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	10/17/12	R/T	SW8260
Acetone	ND	25	ug/L	10/17/12	R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	10/17/12	R/T	SW8260
Benzene	ND	0.70	ug/L	10/17/12	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	10/17/12	R/T	SW8260
Bromoform	ND	1.0	ug/L	10/17/12	R/T	SW8260

Project ID: 491 EAST 165TH ST.
 Client ID: FIELD DUPLICATE

Phoenix I.D.: BC83714

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromomethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	10/17/12	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	10/17/12	R/T	SW8260
Chlorobenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Chloroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Chloroform	33	1.0	ug/L	10/17/12	R/T	SW8260
Chloromethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	10/17/12	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	10/17/12	R/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	10/17/12	R/T	SW8260
Dibromomethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Ethylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	10/17/12	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	10/17/12	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	10/17/12	R/T	SW8260
Methylene chloride	ND	1.0	ug/L	10/17/12	R/T	SW8260
Naphthalene	ND	1.0	ug/L	10/17/12	R/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
o-Xylene	ND	1.0	ug/L	10/17/12	R/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Styrene	ND	1.0	ug/L	10/17/12	R/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Tetrachloroethene	1.2	1.0	ug/L	10/17/12	R/T	SW8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	10/17/12	R/T	SW8260
Toluene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	10/17/12	R/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	10/17/12	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	10/17/12	R/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	10/17/12	R/T	SW8260
Trichloroethene	ND	1.0	ug/L	10/17/12	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	10/17/12	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	10/17/12	R/T	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	10/17/12	R/T	70 - 130 %
% Bromofluorobenzene	94		%	10/17/12	R/T	70 - 130 %
% Dibromofluoromethane	100		%	10/17/12	R/T	70 - 130 %
% Toluene-d8	92		%	10/17/12	R/T	70 - 130 %
Semivolatiles						
1,2,4-Trichlorobenzene	ND	5.0	ug/L	10/18/12	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	10/18/12	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	10/18/12	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	10/18/12	DD	SW8270
1,4-Dichlorobenzene	ND	5.0	ug/L	10/18/12	DD	SW8270

Project ID: 491 EAST 165TH ST.
 Client ID: FIELD DUPLICATE

Phoenix I.D.: BC83714

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
2,4,5-Trichlorophenol	ND	10	ug/L	10/18/12	DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	10/18/12	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	10/18/12	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	10/18/12	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	10/18/12	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	10/18/12	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	10/18/12	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	10/18/12	DD	SW8270
2-Chlorophenol	ND	10	ug/L	10/18/12	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	10/18/12	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	10/18/12	DD	SW8270
2-Nitroaniline	ND	50	ug/L	10/18/12	DD	SW8270
2-Nitrophenol	ND	10	ug/L	10/18/12	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	10/18/12	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	10/18/12	DD	SW8270
3-Nitroaniline	ND	50	ug/L	10/18/12	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	10/18/12	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	10/18/12	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	10/18/12	DD	SW8270
4-Chloroaniline	ND	20	ug/L	10/18/12	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	10/18/12	DD	SW8270
4-Nitroaniline	ND	20	ug/L	10/18/12	DD	SW8270
4-Nitrophenol	ND	50	ug/L	10/18/12	DD	SW8270
Acetophenone	ND	5.0	ug/L	10/18/12	DD	SW8270
Aniline	ND	10	ug/L	10/18/12	DD	SW8270
Anthracene	ND	5.0	ug/L	10/18/12	DD	SW8270
Benzidine	ND	50	ug/L	10/18/12	DD	SW8270
Benzoic acid	ND	50	ug/L	10/18/12	DD	SW8270
Benzyl butyl phthalate	ND	5.0	ug/L	10/18/12	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	10/18/12	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	10/18/12	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	10/18/12	DD	SW8270
Carbazole	ND	5.0	ug/L	10/18/12	DD	SW8270
Dibenzofuran	ND	5.0	ug/L	10/18/12	DD	SW8270
Diethyl phthalate	ND	5.0	ug/L	10/18/12	DD	SW8270
Dimethylphthalate	ND	5.0	ug/L	10/18/12	DD	SW8270
Di-n-butylphthalate	ND	5.0	ug/L	10/18/12	DD	SW8270
Di-n-octylphthalate	ND	5.0	ug/L	10/18/12	DD	SW8270
Fluoranthene	ND	5.0	ug/L	10/18/12	DD	SW8270
Fluorene	ND	5.0	ug/L	10/18/12	DD	SW8270
Hexachlorobutadiene	ND	5.0	ug/L	10/18/12	DD	SW8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	10/18/12	DD	SW8270
Isophorone	ND	5.0	ug/L	10/18/12	DD	SW8270
Naphthalene	ND	5.0	ug/L	10/18/12	DD	SW8270
Nitrobenzene	ND	5.0	ug/L	10/18/12	DD	SW8270
N-Nitrosodimethylamine	ND	5.0	ug/L	10/18/12	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	10/18/12	DD	SW8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	10/18/12	DD	SW8270
Phenol	ND	10	ug/L	10/18/12	DD	SW8270
Pyrene	ND	5.0	ug/L	10/18/12	DD	SW8270

Project ID: 491 EAST 165TH ST.
 Client ID: FIELD DUPLICATE

Phoenix I.D.: BC83714

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	92		%	10/18/12	DD	30 - 130 %
% 2-Fluorobiphenyl	74		%	10/18/12	DD	40 - 140 %
% 2-Fluorophenol	57		%	10/18/12	DD	15 - 130 %
% Nitrobenzene-d5	83		%	10/18/12	DD	40 - 140 %
% Phenol-d5	56		%	10/18/12	DD	15 - 130 %
% Terphenyl-d14	35		%	10/18/12	DD	40 - 140 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	10/17/12	DD	SW8270 (SIM)
Acenaphthene	ND	0.050	ug/L	10/17/12	DD	SW8270 (SIM)
Acenaphthylene	0.07	0.050	ug/L	10/17/12	DD	SW8270 (SIM)
Benzo(a)anthracene	0.59	0.040	ug/L	10/17/12	DD	SW8270 (SIM)
Benzo(a)pyrene	0.45	0.050	ug/L	10/17/12	DD	SW8270 (SIM)
Benzo(b)fluoranthene	0.65	0.050	ug/L	10/17/12	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	10/17/12	DD	SW8270 (SIM)
Benzo(k)fluoranthene	0.21	0.050	ug/L	10/17/12	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	10/17/12	DD	SW8270 (SIM)
Chrysene	0.61	0.050	ug/L	10/17/12	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	0.08	0.010	ug/L	10/17/12	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.060	ug/L	10/17/12	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	10/17/12	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	0.25	0.050	ug/L	10/17/12	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	10/17/12	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.80	ug/L	10/17/12	DD	SW8270 (SIM)
Phenanthrene	1	0.050	ug/L	10/17/12	DD	SW8270 (SIM)
Pyridine	ND	0.50	ug/L	10/17/12	DD	SW8270 (SIM)
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	92		%	10/17/12	DD	15 - 130 %
% 2-Fluorobiphenyl	74		%	10/17/12	DD	40 - 140 %
% 2-Fluorophenol	57		%	10/17/12	DD	15 - 130 %
% Nitrobenzene-d5	83		%	10/17/12	DD	40 - 140 %
% Phenol-d5	56		%	10/17/12	DD	15 - 130 %
% Terphenyl-d14	35		%	10/17/12	DD	40 - 140 %

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Project ID: 491 EAST 165TH ST.
Client ID: FIELD DUPLICATE

Phoenix I.D.: BC83714

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

3 = This parameter exceeds laboratory specified limits.

B* = Present in blank, a bias is possible.

B = Present in blank, no bias suspected.

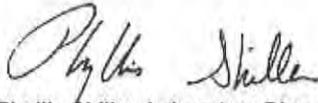
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

* For PCBs, due to matrix interference from non target compounds in the sample an elevated RL was reported.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report
 October 24, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: WATER
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

10/15/12
 10/17/12

Time

0:00
 15:33

Laboratory Data

SDG ID: gbc83695
 Phoenix ID: BC84150

Project ID: 491 E 165TH STREET
 Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Volatiles						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	10/18/12	H/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	10/18/12	H/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	10/18/12	H/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	10/18/12	H/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	10/18/12	H/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	10/18/12	H/T	SW8260
2-Hexanone	ND	5.0	ug/L	10/18/12	H/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	10/18/12	H/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	10/18/12	H/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	10/18/12	H/T	SW8260
Acetone	ND	25	ug/L	10/18/12	H/T	SW8260

Project ID: 491 E 165TH STREET
 Client ID: TRIP BLANK

Phoenix I.D.: BC84150

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acrylonitrile	ND	5.0	ug/L	10/18/12	H/T	SW8260
Benzene	ND	0.70	ug/L	10/18/12	H/T	SW8260
Bromobenzene	ND	1.0	ug/L	10/18/12	H/T	SW8260
Bromochloromethane	ND	1.0	ug/L	10/18/12	H/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	10/18/12	H/T	SW8260
Bromoform	ND	1.0	ug/L	10/18/12	H/T	SW8260
Bromomethane	ND	1.0	ug/L	10/18/12	H/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	10/18/12	H/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	10/18/12	H/T	SW8260
Chlorobenzene	ND	1.0	ug/L	10/18/12	H/T	SW8260
Chloroethane	ND	1.0	ug/L	10/18/12	H/T	SW8260
Chloroform	ND	1.0	ug/L	10/18/12	H/T	SW8260
Chloromethane	ND	1.0	ug/L	10/18/12	H/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	10/18/12	H/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	10/18/12	H/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	10/18/12	H/T	SW8260
Dibromomethane	ND	1.0	ug/L	10/18/12	H/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	10/18/12	H/T	SW8260
Ethylbenzene	ND	1.0	ug/L	10/18/12	H/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	10/18/12	H/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	10/18/12	H/T	SW8260
m&p-Xylene	ND	1.0	ug/L	10/18/12	H/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	10/18/12	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	10/18/12	H/T	SW8260
Methylene chloride	ND	1.0	ug/L	10/18/12	H/T	SW8260
Naphthalene	ND	1.0	ug/L	10/18/12	H/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	10/18/12	H/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	10/18/12	H/T	SW8260
o-Xylene	ND	1.0	ug/L	10/18/12	H/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	10/18/12	H/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	10/18/12	H/T	SW8260
Styrene	ND	1.0	ug/L	10/18/12	H/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	10/18/12	H/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	10/18/12	H/T	SW8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	10/18/12	H/T	SW8260
Toluene	ND	1.0	ug/L	10/18/12	H/T	SW8260
Total Xylenes	ND	1.0	ug/L	10/18/12	H/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	10/18/12	H/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	10/18/12	H/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	10/18/12	H/T	SW8260
Trichloroethene	ND	1.0	ug/L	10/18/12	H/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	10/18/12	H/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	10/18/12	H/T	SW8260
Vinyl chloride	ND	1.0	ug/L	10/18/12	H/T	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	10/18/12	H/T	70 - 130 %
% Bromofluorobenzene	94		%	10/18/12	H/T	70 - 130 %
% Dibromofluoromethane	97		%	10/18/12	H/T	70 - 130 %
% Toluene-d8	96		%	10/18/12	H/T	70 - 130 %

Project ID: 491 E 165TH STREET
Client ID: TRIP BLANK

Phoenix I.D.: BC84150

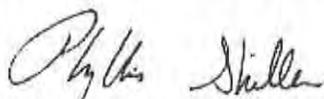
Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

October 24, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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QA/QC Report

October 24, 2012

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 211707, QC Sample No: BC83578 (BC83711, BC83712)

ICP Metals - Aqueous

Aluminum	BRL	0.538	0.537	0.20	97.5	98.7	1.2	97.9	99.4	1.5	75 - 125	20
Antimony	BRL	<0.005	<0.005	NC	102	103	1.0	102	103	1.0	75 - 125	20
Arsenic	BRL	<0.004	<0.004	NC	101	102	1.0	101	102	1.0	75 - 125	20
Barium	BRL	0.009	0.009	NC	104	105	1.0	104	105	1.0	75 - 125	20
Beryllium	BRL	<0.001	<0.001	NC	105	106	0.0	106	107	0.9	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	104	105	1.0	104	105	1.0	75 - 125	20
Calcium	BRL	6.48	6.45	0.50	103	105	1.9	NC	NC	NC	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	103	104	1.0	103	104	1.0	75 - 125	20
Cobalt	BRL	<0.002	<0.002	NC	102	103	1.0	102	103	1.0	75 - 125	20
Copper	BRL	<0.005	<0.005	NC	105	106	0.9	106	107	0.9	75 - 125	20
Iron	BRL	0.052	0.051	1.90	104	105	1.0	103	104	1.0	75 - 125	20
Lead	BRL	<0.002	<0.002	NC	102	104	1.9	102	103	1.0	75 - 125	20
Magnesium	BRL	2.08	2.07	0.50	104	104	0.0	102	103	1.0	75 - 125	20
Manganese	0.001	0.093	0.092	1.10	105	106	0.9	105	106	0.9	75 - 125	20
Nickel	BRL	<0.001	<0.001	NC	103	104	1.0	103	103	0.0	75 - 125	20
Potassium	BRL	1.9	1.9	0	103	104	1.0	107	110	2.8	75 - 125	20
Selenium	BRL	<0.010	<0.010	NC	99.9	100	0.1	100	101	1.0	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	104	105	1.0	104	105	1.0	75 - 125	20
Sodium	BRL	16.2	16.2	0	93.9	94.0	0.1	NC	NC	NC	75 - 125	20
Vanadium	BRL	<0.002	<0.002	NC	100	102	2.0	101	102	1.0	75 - 125	20
Zinc	BRL	<0.002	<0.002	NC	106	108	1.9	108	108	0.0	75 - 125	20

QA/QC Batch 211729, QC Sample No: BC83651 (BC83711, BC83712, BC83714)

Mercury - Water	BRL	<0.0002	<0.0002	NC	110	108	1.8	108	108	0.0	70 - 130	20
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QA/QC Batch 211683, QC Sample No: BC83695 (BC83695, BC83696, BC83697, BC83698, BC83699, BC83700)

ICP Metals - Soil

Aluminum	BRL	8860	9560	7.60	104	108	3.8	NC	NC	NC	75 - 125	30
Antimony	BRL	<3.2	<3.7	NC	79.7	81.6	2.4	68.0	74.5	9.1	75 - 125	30
Arsenic	BRL	2.7	2.59	NC	63.9	65.4	1.8	78.9	87.3	10.1	75 - 125	30
Barium	BRL	262	673	81.9	95.7	98.8	3.2	119	122	2.5	75 - 125	30
Beryllium	BRL	0.32	0.33	NC	98.9	99.2	0.3	88.0	98.1	10.9	75 - 125	30
Cadmium	BRL	1.04	1.14	NC	93.0	92.3	0.8	86.5	88.5	2.3	75 - 125	30
Calcium	BRL	6360	6270	1.90	97.4	90.3	1.1	NC	NC	NC	75 - 125	30
Chromium	BRL	20.1	22.3	10.4	101	101	0.0	85.9	97.9	13.1	75 - 125	30
Cobalt	BRL	5.4	5.6	3.10	96.3	96.2	0.1	86.9	93.7	7.5	75 - 125	30
Copper	0.44	29.3	28.8	1.70	110	106	3.7	87.9	108	20.5	75 - 125	30
Iron	7.1	13400	13400	0	110	105	4.7	NC	NC	NC	75 - 125	30
Lead	BRL	349	505	36.5	95.3	93.8	1.6	125	86.7	36.2	75 - 125	30
Magnesium	BRL	3270	3560	8.20	101	102	1.0	NC	NC	NC	75 - 125	30
Manganese	BRL	245	269	9.30	104	97.8	6.1	112	105	6.5	75 - 125	30
Nickel	BRL	12.7	12.6	0.80	101	99.3	1.7	88.5	92.6	4.5	75 - 125	30

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Potassium	BRL	980	1080	9.70	109	112	2.7	128	>130	NC	75 - 125	30	m
Selenium	BRL	<1.3	<1.5	NC	86.0	80.3	6.9	83.5	72.0	14.8	75 - 125	30	m
Silver	BRL	<0.32	<0.37	NC	94.8	95.9	1.2	89.5	97.1	8.1	75 - 125	30	
Sodium	BRL	141	169	18.1	117	122	4.2	116	>130	NC	75 - 125	30	m
Thallium	BRL	<0.5	<3.3	NC	95.2	84.6	0.6	84.4	94.5	11.3	75 - 125	30	
Vanadium	BRL	25.5	26.7	4.60	102	103	1.0	92.5	96.1	3.8	75 - 125	30	
Zinc	BRL	225	309	31.5	88.6	88.4	0.2	92.8	77.3	18.2	75 - 125	30	r

QA/QC Batch 211727, QC Sample No: BC83695 (BC83695, BC83696, BC83697, BC83698, BC83699, BC83700)

Mercury - Soil	BRL	0.23	0.20	NC	103	102	1.0	102	113	10.2	70 - 130	30	
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QA/QC Batch 211730, QC Sample No: BC83702 (BC83701, BC83702, BC83703, BC83704, BC83705, BC83706, BC83707, BC83708, BC83709, BC83710)

Mercury - Soil	BRL	0.38	0.34	11.1	108	108	0.0	122	>125	NC	70 - 130	30	m
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QA/QC Batch 211684, QC Sample No: BC83710 (BC83701, BC83702, BC83703, BC83704, BC83705, BC83706, BC83707, BC83708, BC83709, BC83710)

ICP Metals - Soil

Aluminum	BRL	7340	7560	2.80	89.9	91.7	2.0	NC	NC	NC	75 - 125	30	
Antimony	BRL	<3.6	<3.3	NC	88.7	91.2	2.8	89.9	89.4	0.6	75 - 125	30	
Arsenic	BRL	<0.7	1.07	NC	92.3	91.4	1.0	88.7	87.6	1.2	75 - 125	30	
Barium	BRL	35.3	39.4	11.0	101	101	0.0	94.5	94.2	0.3	75 - 125	30	
Beryllium	BRL	<0.29	<0.26	NC	102	102	0.0	98.9	97.7	1.2	75 - 125	30	
Cadmium	BRL	0.44	0.60	NC	95.9	96.4	0.5	91.4	89.6	2.0	75 - 125	30	
Calcium	BRL	1600	1830	1.90	90.1	92.5	2.6	NC	NC	NC	75 - 125	30	
Chromium	BRL	17.3	18.0	4.00	106	107	0.9	99.1	97.3	1.8	75 - 125	30	
Cobalt	BRL	5.74	6.56	13.3	100	102	2.0	98.7	94.4	2.4	75 - 125	30	
Copper	BRL	14.5	15.9	9.20	107	113	5.5	108	105	2.8	75 - 125	30	
Iron	BRL	12000	12800	5.50	96.1	97.9	0.9	NC	NC	NC	75 - 125	30	
Lead	BRL	2.83	3.45	19.7	98.7	98.3	0.4	94.6	93.9	0.7	75 - 125	30	
Magnesium	BRL	3550	3510	1.10	92.9	94.0	1.2	NC	NC	NC	75 - 125	30	
Manganese	BRL	295	325	9.70	104	103	1.0	>130	97.3	NC	75 - 125	30	m
Nickel	BRL	15.3	15.9	3.80	105	106	0.9	94.9	93.6	1.4	75 - 125	30	
Potassium	BRL	1790	1690	5.70	111	111	0.0	>130	>130	NC	75 - 125	30	m
Selenium	BRL	<1.5	<1.3	NC	84.4	84.3	0.1	72.0	71.1	1.3	75 - 125	30	m
Silver	BRL	<0.36	<0.33	NC	101	99.5	1.5	97.8	96.2	1.6	75 - 125	30	
Sodium	BRL	110	109	0.90	121	120	0.8	>130	>130	NC	75 - 125	30	m
Thallium	BRL	<0.6	<3.0	NC	101	99.9	1.1	95.4	94.6	0.8	75 - 125	30	
Vanadium	BRL	21.8	23.7	8.40	106	108	1.9	96.6	95.0	1.0	75 - 125	30	
Zinc	BRL	25.3	34.4	30.5	83.0	83.1	0.1	90.9	88.0	2.6	75 - 125	30	

QA/QC Batch 211708, QC Sample No: BC83790 (BC83714)

ICP Metals - Aqueous

Aluminum	BRL	0.159	0.159	0	97.7	99.6	1.9	102	99.9	2.1	75 - 125	20	
Antimony	BRL	<0.005	<0.005	NC	102	104	1.9	100	104	1.9	75 - 125	20	
Arsenic	BRL	<0.004	<0.004	NC	101	103	2.0	105	103	1.9	75 - 125	20	
Barium	BRL	0.093	0.094	1.10	104	105	1.0	104	102	1.9	75 - 125	20	
Beryllium	BRL	<0.001	<0.001	NC	106	108	1.9	108	106	1.9	75 - 125	20	
Cadmium	BRL	<0.001	<0.001	NC	104	106	1.9	104	104	0.0	75 - 125	20	
Calcium	0.016	66.7	66.8	0.10	104	107	2.8	NC	NC	NC	75 - 125	20	
Chromium	BRL	<0.001	<0.001	NC	103	105	1.9	104	101	2.9	75 - 125	20	
Cobalt	BRL	<0.002	<0.002	NC	102	104	1.9	103	100	3.0	75 - 125	20	
Copper	BRL	<0.005	<0.005	NC	105	107	1.9	108	106	1.9	75 - 125	20	
Iron	BRL	1.95	1.96	0.50	104	106	1.9	105	102	2.9	75 - 125	20	
Lead	BRL	<0.002	<0.002	NC	102	104	1.9	102	100	2.0	75 - 125	20	
Magnesium	BRL	21.5	21.6	0	103	105	1.9	NC	NC	NC	75 - 125	20	

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Manganese	BRL	0.087	0.088	1.10	105	107	1.0	106	104	1.0	75 - 125	20
Nickel	BRL	0.001	<0.001	NC	102	104	1.0	102	99.8	2.2	75 - 125	20
Potassium	BRL	11.8	11.9	0.90	103	105	1.0	114	112	1.8	75 - 125	20
Selenium	BRL	<0.010	<0.010	NC	100	102	2.0	104	103	1.0	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	103	106	2.0	107	105	1.9	75 - 125	20
Sodium	0.2	88.3	88.7	0.50	111	111	0.0	NC	NC	NC	75 - 125	20
Vanadium	BRL	<0.002	<0.002	NC	99.9	102	2.1	102	99.8	2.2	75 - 125	20
Zinc	BRL	0.005	0.005	NC	106	109	2.8	109	107	1.9	75 - 125	20

QA/QC Batch 212102, QC Sample No: BC86103 (BC83712, BC83713, BC83714)

Mercury - Water	BRL	<0.0002	<0.0002	NC	97.7	98.3	0.6	99.8	100	0.2	70 - 130	20
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QA/QC Batch 211906, QC Sample No: BC86131 (BC83711, BC83712, BC83713, BC83714)

Thallium (Dissolved)	BRL	<0.002	<0.005	NC	102	106	3.8	108			75 - 125	20
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QA/QC Batch 211914, QC Sample No: BC86248 (BC83711, BC83712, BC83713, BC83714)

ICP Metals - Aqueous

Calcium	BRL	0.906	0.915	1.00	99.6	101	1.4	97.9	102	4.1	75 - 125	20
Magnesium	BRL	1.02	1.03	1.00	99.3	101	1.7	98.0	102	4.0	75 - 125	20

QA/QC Batch 212185, QC Sample No: BC87123 (BC83711, BC83712, BC83713, BC83714)

ICP Metals - Dissolved

Aluminum	BRL	0.64	0.76	17.1	87.3	89.4	2.4	98.8	85.0	15.0	75 - 125	20
Antimony	BRL	0.014	0.006	NC	98.1	100	1.0	99.1	98.1	1.0	75 - 125	20
Arsenic	BRL	<0.004	0.005	NC	95.5	98.0	2.6	101	99.5	1.5	75 - 125	20
Barium	BRL	12.3	12.1	1.60	91.9	94.2	2.5	NC	NC	NC	75 - 125	20
Beryllium	BRL	<0.001	<0.001	NC	97.9	100	2.1	83.4	83.6	0.2	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	97.1	99.4	2.3	81.8	81.2	0.7	75 - 125	20
Calcium	BRL	1220	1180	3.30	94.7	96.9	2.3	NC	NC	NC	75 - 125	20
Chromium	BRL	0.001	0.002	NC	94.4	96.4	2.1	83.8	82.8	1.2	75 - 125	20
Cobalt	BRL	0.005	0.005	0	98.8	101	2.2	84.3	83.6	0.8	75 - 125	20
Copper	BRL	0.014	0.014	NC	92.5	94.6	2.2	104	104	0.0	75 - 125	20
Iron	BRL	16.7	16.4	1.80	95.3	98.3	3.1	NC	NC	NC	75 - 125	20
Lead	BRL	<0.021	<0.021	NC	97.2	99.7	2.5	83.4	82.9	0.6	75 - 125	20
Magnesium	BRL	51.5	50.7	1.60	101	103	2.0	NC	NC	NC	75 - 125	20
Manganese	BRL	3.70	3.65	1.40	95.0	97.2	2.3	80.0	78.3	2.1	75 - 125	20
Nickel	0.001	0.006	0.006	0	96.9	99.2	2.3	81.3	80.6	0.9	75 - 125	20
Potassium	BRL	752	719	4.50	101	92.2	9.1	NC	NC	NC	75 - 125	20
Selenium	BRL	0.046	0.032	NC	93.7	96.0	2.4	87.0	87.9	0.3	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	91.8	95.4	3.8	105	104	1.0	75 - 125	20
Sodium	BRL	<0.11	<0.11	NC	103	95.1	8.0	0	0	NC	75 - 125	20
Vanadium	BRL	0.005	0.007	NC	93.1	94.2	1.2	90.6	89.4	1.3	75 - 125	20
Zinc	BRL	0.047	0.044	8.80	97.1	99.4	2.3	95.9	95.2	0.7	75 - 125	20

QA/QC Batch 212200, QC Sample No: BC87160 (BC83713)

ICP Metals - Aqueous

Aluminum	BRL	<0.010	<0.010	NC	89.9	88.2	1.0	91.2	93.8	2.8	75 - 125	20
Antimony	BRL	<0.005	<0.005	NC	101	99.1	1.0	100	102	2.0	75 - 125	20
Arsenic	BRL	<0.004	<0.004	NC	87.6	85.4	2.3	97.7	101	3.3	75 - 125	20
Barium	BRL	<0.002	<0.002	NC	94.9	93.4	1.0	94.0	97.0	2.5	75 - 125	20
Beryllium	BRL	<0.001	<0.001	NC	100	98.9	1.1	99.8	102	2.2	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	99.1	97.4	1.7	97.9	100	2.1	75 - 125	20
Calcium	BRL	0.012	0.011	NC	95.5	94.7	0.8	95.3	97.5	2.3	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	96.5	94.6	2.0	95.0	97.5	2.6	75 - 125	20
Cobalt	BRL	<0.002	<0.002	NC	101	98.9	2.1	99.2	102	2.8	75 - 125	20
Copper	BRL	<0.005	<0.005	NC	95.1	94.0	1.2	95.5	99.2	2.8	75 - 125	20

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Iron	BRL	0.037	0.036	NC	101	98.7	2.3	98.2	101	2.8	75 - 125	20
Lead	BRL	<0.002	0.004	NC	98.4	96.5	1.9	96.4	99.5	3.2	75 - 125	20
Magnesium	BRL	<0.01	<0.01	NC	101	99.6	1.4	99.8	102	2.2	75 - 125	20
Manganese	BRL	<0.001	<0.001	NC	97.0	95.9	1.1	96.2	98.4	2.3	75 - 125	20
Nickel	BRL	<0.001	<0.001	NC	97.8	95.5	2.4	96.2	98.8	2.7	75 - 125	20
Potassium	BRL	<0.1	<0.1	NC	97.9	107	8.9	99.8	114	13.3	75 - 125	20
Selenium	BRL	<0.010	<0.010	NC	97.3	96.2	1.1	97.0	100	3.0	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	95.0	95.2	0.2	96.4	99.4	3.1	75 - 125	20
Sodium	BRL	47.5	46.0	3.20	102	112	9.3	NC	NC	NC	75 - 125	20
Vanadium	BRL	<0.002	<0.002	NC	93.9	92.7	1.3	94.1	96.9	2.9	75 - 125	20
Zinc	BRL	0.022	0.022	0	100	98.4	1.6	99.0	102	3.0	75 - 125	20
QA/QC Batch 212335, QC Sample No: BC87544 (BC83711, BC83713)												
Mercury - Water	BRL				99.1	101	1.9				70 - 130	20

m = This parameter is outside laboratory ms/msd specified recovery limits.

r = This parameter is outside laboratory rpd specified recovery limits.



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QA/QC Report

October 24, 2012

QA/QC Data

SDG I.D.: GBC83895

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 211514, QC Sample No: BC82206 (BC83711, BC83712, BC83713, BC83714)									
Polychlorinated Biphenyls - Ground Water									
PCB-1016	ND	90	94	4.3	98			40 - 140	20
PCB-1221	ND							40 - 140	20
PCB-1232	ND							40 - 140	20
PCB-1242	ND							40 - 140	20
PCB-1248	ND							40 - 140	20
PCB-1254	ND							40 - 140	20
PCB-1260	ND	90	91	1.1	96			40 - 140	20
PCB-1262	ND							40 - 140	20
PCB-1268	ND							40 - 140	20
% DCBP (Surrogate Rec)	50	52	53	1.9	65			30 - 150	20
% TCMX (Surrogate Rec)	82	80	83	3.7	95			30 - 150	20
QA/QC Batch 211616, QC Sample No: BC82883 (BC83711, BC83712, BC83713, BC83714)									
Pesticides - Ground Water									
4,4'-DDD	ND	94	95	1.1				40 - 140	20
4,4'-DDE	ND	97	99	2.0				40 - 140	20
4,4'-DDT	ND	92	94	2.2				40 - 140	20
a-BHC	ND	95	98	3.1				40 - 140	20
a-Chlordane	ND	102	103	1.0				40 - 140	20
Alachlor	ND	N/A	N/A	NC				40 - 140	20
Aldrin	ND	86	87	1.2				40 - 140	20
b-BHC	ND	102	101	1.0				40 - 140	20
Chlordane	ND	N/A	N/A	NC				40 - 140	20
d-BHC	ND	98	99	1.0				40 - 140	20
Dieldrin	ND	97	98	1.0				40 - 140	20
Endosulfan I	ND	94	95	1.1				40 - 140	20
Endosulfan II	ND	98	100	2.0				40 - 140	20
Endosulfan sulfate	ND	99	101	2.0				40 - 140	20
Endrin	ND	104	107	2.8				40 - 140	20
Endrin aldehyde	ND	116	115	0.9				40 - 140	20
Endrin ketone	ND	109	111	1.8				40 - 140	20
g-BHC	ND	99	101	2.0				40 - 140	20
g-Chlordane	ND	96	97	1.0				40 - 140	20
Heptachlor	ND	94	98	4.2				40 - 140	20
Heptachlor epoxide	ND	96	96	0.0				40 - 140	20
Methoxychlor	ND	103	104	1.0				40 - 140	20
Toxaphene	ND	N/A	N/A	NC				40 - 140	20
% DCBP	116	110	105	4.7				30 - 150	20
% TCMX	78	90	93	3.3				30 - 150	20

Comment:

A LCS and LCSD duplicate were performed instead of a matrix spike and matrix spike duplicate, unless otherwise noted. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane.

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 211601, QC Sample No: BC83342 (BC83695, BC83696, BC83697, BC83698, BC83699, BC83700, BC83701, BC83702, BC83703, BC83704, BC83705, BC83706, BC83707, BC83708, BC83709, BC83710)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	74	84	12.7				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	72	86	17.7				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	79	80	89	10.7				30 - 150	30
% TCMX (Surrogate Rec)	79	80	88	9.5				30 - 150	30
QA/QC Batch 211605, QC Sample No: BC83342 (BC83695, BC83696, BC83697, BC83698, BC83699, BC83700, BC83701, BC83702, BC83703, BC83704, BC83705)									
<u>Semivolatiles - Soil</u>									
1,2,4,5-Tetrachlorobenzene	ND	63	63	0.0	88	89	1.1	30 - 130	30
1,2,4-Trichlorobenzene	ND	75	75	0.0	81	81	0.0	30 - 130	30
1,2-Dichlorobenzene	ND	71	71	0.0	76	76	0.0	30 - 130	30
1,2-Diphenylhydrazine	ND	73	74	1.4	76	76	0.0	30 - 130	30
1,3-Dichlorobenzene	ND	67	66	1.5	70	70	0.0	30 - 130	30
1,4-Dichlorobenzene	ND	70	69	1.4	74	74	0.0	30 - 130	30
2,4,5-Trichlorophenol	ND	78	80	2.5	88	88	0.0	30 - 130	30
2,4,6-Trichlorophenol	ND	81	82	1.2	89	91	2.2	30 - 130	30
2,4-Dichlorophenol	ND	84	86	2.4	91	92	1.1	30 - 130	30
2,4-Dimethylphenol	ND	55	55	0.0	63	63	0.0	30 - 130	30
2,4-Dinitrophenol	ND	15	19	23.5	43	37	15.0	30 - 130	30
2,4-Dinitrotoluene	ND	79	81	2.5	83	82	1.2	30 - 130	30
2,6-Dinitrotoluene	ND	80	82	2.5	84	84	0.0	30 - 130	30
2-Chloronaphthalene	ND	74	74	0.0	78	78	0.0	30 - 130	30
2-Chlorophenol	ND	70	70	0.0	76	76	0.0	30 - 130	30
2-Methylnaphthalene	ND	74	75	1.3	82	82	0.0	30 - 130	30
2-Methylphenol (o-cresol)	ND	71	73	2.8	80	82	2.5	30 - 130	30
2-Nitroaniline	ND	132	141	6.0	131	128	2.3	30 - 130	30
2-Nitrophenol	ND	89	91	2.2	99	99	0.0	30 - 130	30
3&4-Methylphenol (m&p-cresol)	ND	70	71	1.4	75	76	1.3	30 - 130	30
3,3'-Dichlorobenzidine	ND	123	125	1.6	126	125	0.8	30 - 130	30
3-Nitroaniline	ND	83	86	3.0	87	87	0.0	30 - 130	30
4,6-Dinitro-2-methylphenol	ND	62	68	9.2	79	71	10.7	30 - 130	30
4-Bromophenyl phenyl ether	ND	78	79	1.3	82	83	1.2	30 - 130	30
4-Chloro-3-methylphenol	ND	87	89	2.3	92	94	2.2	30 - 130	30
4-Chloroaniline	ND	>150	>150	NC	127	140	9.7	30 - 130	30
4-Chlorophenyl phenyl ether	ND	77	78	1.3	81	81	0.0	30 - 130	30
4-Nitroaniline	ND	83	86	3.8	87	87	0.0	30 - 130	30
4-Nitrophenol	ND	64	69	7.5	81	80	1.2	30 - 130	30
Acenaphthene	ND	73	72	1.4	82	82	0.0	30 - 130	30
Acenaphthylene	ND	75	75	0.0	81	81	0.0	30 - 130	30
Acetophenone	ND	77	77	0.0	81	81	0.0	30 - 130	30
Aniline	ND	134	136	1.5	113	119	5.2	30 - 130	30
Anthracene	ND	76	76	0.0	89	88	1.1	30 - 130	30
Benz(a)anthracene	ND	77	78	1.3	101	100	1.0	30 - 130	30

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzidine	ND	60	73	19.5	30	30	0.0	30 - 130	30	
Benzo(a)pyrene	ND	72	73	1.4	91	90	1.1	30 - 130	30	
Benzo(b)fluoranthene	ND	75	79	5.2	99	100	1.0	30 - 130	30	
Benzo(ghi)perylene	ND	84	82	2.4	70	63	10.5	30 - 130	30	
Benzo(k)fluoranthene	ND	79	78	1.3	89	97	8.6	30 - 130	30	
Benzyl butyl phthalate	ND	73	73	0.0	80	85	0.1	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	77	77	0.0	81	80	1.2	30 - 130	30	
Bis(2-chloroethyl)ether	ND	64	63	1.6	75	74	1.3	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	70	68	2.9	75	74	1.3	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	73	71	2.8	81	85	4.8	30 - 130	30	
Carbazole	ND	141	146	3.5	>150	>150	NC	30 - 130	30	lm
Chrysene	ND	73	72	1.4	83	83	0.0	30 - 130	30	
Dibenz(a,h)anthracene	ND	86	84	2.4	73	67	8.6	30 - 130	30	
Dibenzofuran	ND	76	77	1.3	84	84	0.0	30 - 130	30	
Diethyl phthalate	ND	83	83	0.0	86	86	0.0	30 - 130	30	
Dimethylphthalate	ND	80	81	1.2	84	83	1.2	30 - 130	30	
Di-n-butylphthalate	ND	84	82	2.4	85	85	0.0	30 - 130	30	
Di-n-octylphthalate	ND	83	89	1.1	82	82	0.0	30 - 130	30	
Fluoranthene	ND	78	78	0.0	104	100	3.9	30 - 130	30	
Fluorene	ND	77	78	1.3	88	87	1.1	30 - 130	30	
Hexachlorobenzene	ND	83	82	1.2	87	87	0.0	30 - 130	30	
Hexachlorobutadiene	ND	84	83	1.2	91	91	0.0	30 - 130	30	
Hexachlorocyclopentadiene	ND	33	40	19.2	11	9.4	15.7	30 - 130	30	m
Hexachloroethane	ND	70	69	1.4	64	61	4.8	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	87	86	1.2	76	69	9.7	30 - 130	30	
Isophorone	ND	81	80	1.2	85	84	1.2	30 - 130	30	
Naphthalene	ND	67	66	1.5	75	74	1.3	30 - 130	30	
Nitrobenzene	ND	74	74	0.0	79	79	0.0	30 - 130	30	
N-Nitrosodimethylamine	ND	67	66	1.5	70	69	1.4	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	76	75	0.0	77	78	1.3	30 - 130	30	
N-Nitrosodiphenylamine	ND	91	93	2.2	94	95	1.1	30 - 130	30	
Pentachloronitrobenzene	ND	91	90	1.1	95	93	2.1	30 - 130	30	
Pentachlorophenol	ND	44	47	6.6	52	55	4.7	30 - 130	30	
Phenanthrene	ND	78	77	1.3	124	120	3.3	30 - 130	30	
Phenol	ND	75	75	0.0	79	79	0.0	30 - 130	30	
Pyrene	ND	79	80	1.3	100	97	3.0	30 - 130	30	
Pyridine	ND	66	65	1.5	67	66	1.5	30 - 130	30	
% 2,4,6-Tribromophenol	65	85	85	0.0	93	94	1.1	30 - 130	30	
% 2-Fluorobiphenyl	71	72	72	0.0	78	77	1.3	40 - 140	30	
% 2-Fluorophenol	65	69	68	1.5	74	73	1.4	30 - 130	30	
% Nitrobenzene-d5	80	75	76	1.3	80	81	1.2	40 - 140	30	
% Phenol-d5	66	69	70	1.4	74	74	0.0	30 - 130	30	
% Terphenyl-d14	81	82	82	0.0	80	80	0.0	40 - 140	30	

QA/QC Batch 211700, QC Sample No: BC83624 (BC83711, BC83712, BC83713, BC83714)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	118	107	9.8	94	102	8.2	70 - 130	30
1,1,1-Trichloroethane	ND	111	98	12.4	89	99	10.6	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	113	98	14.2	95	98	3.1	70 - 130	30
1,1,2-Trichloroethane	ND	112	101	10.3	90	94	4.3	70 - 130	30
1,1-Dichloroethane	ND	110	98	11.5	88	97	9.7	70 - 130	30
1,1-Dichloroethene	ND	102	82	10.3	83	93	11.4	70 - 130	30
1,1-Dichloropropene	ND	112	97	14.4	89	100	11.6	70 - 130	30

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,3-Trichlorobenzene	ND	107	98	8.8	82	90	9.3	70 - 130	30
1,2,3-Trichloropropane	ND	124	107	14.7	98	101	3.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	104	95	9.0	81	87	7.1	70 - 130	30
1,2,4-Trimethylbenzene	ND	118	104	12.6	92	99	7.3	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	133	123	7.8	101	109	7.6	70 - 130	30
1,2-Dibromoethane	ND	109	98	10.6	91	94	3.2	70 - 130	30
1,2-Dichlorobenzene	ND	107	95	11.9	86	92	6.7	70 - 130	30
1,2-Dichloroethane	ND	106	94	12.0	87	90	3.4	70 - 130	30
1,2-Dichloropropane	ND	118	104	10.9	93	98	5.2	70 - 130	30
1,3,5-Trimethylbenzene	ND	116	102	12.8	91	100	9.4	70 - 130	30
1,3-Dichlorobenzene	ND	109	97	11.7	88	93	7.8	70 - 130	30
1,3-Dichloropropane	ND	120	106	12.4	99	104	4.9	70 - 130	30
1,4-Dichlorobenzene	ND	107	98	10.8	85	90	5.7	70 - 130	30
2,2-Dichloropropane	ND	120	101	17.2	79	84	6.1	70 - 130	30
2-Chlorotoluene	ND	115	100	14.0	89	99	10.6	70 - 130	30
2-Hexanone	ND	123	112	9.4	102	110	7.5	70 - 130	30
2-Isopropyltoluene	ND	112	98	13.3	88	96	8.7	70 - 130	30
4-Chlorotoluene	ND	109	97	11.7	89	97	8.6	70 - 130	30
4-Methyl-2-pentanone	ND	121	100	19.0	101	93	8.2	70 - 130	30
Acetone	ND	77	75	2.6	64	70	9.0	70 - 130	30
Acrylonitrile	ND	110	99	10.5	87	90	3.4	70 - 130	30
Benzene	ND	112	100	11.3	90	97	7.5	70 - 130	30
Bromobenzene	ND	108	95	12.8	86	94	8.9	70 - 130	30
Bromochloromethane	ND	110	96	13.9	87	94	7.7	70 - 130	30
Bromodichloromethane	ND	115	102	12.0	88	93	5.5	70 - 130	30
Bromoform	ND	124	112	10.2	97	102	5.0	70 - 130	30
Bromomethane	ND	79	72	9.3	<40	56	NC	70 - 130	30
Carbon Disulfide	ND	97	87	10.9	82	94	13.6	70 - 130	30
Carbon tetrachloride	ND	111	101	9.4	89	98	9.6	70 - 130	30
Chlorobenzene	ND	113	100	12.2	92	98	6.3	70 - 130	30
Chloroethane	ND	92	84	9.1	83	89	7.0	70 - 130	30
Chloroform	ND	104	94	10.1	85	91	6.8	70 - 130	30
Chloromethane	ND	83	75	10.1	71	78	9.4	70 - 130	30
cis-1,2-Dichloroethene	ND	109	98	10.6	87	95	8.8	70 - 130	30
cis-1,3-Dichloropropene	ND	117	104	11.8	90	96	6.5	70 - 130	30
Dibromochloromethane	ND	122	110	10.3	97	103	6.0	70 - 130	30
Dibromomethane	ND	112	99	12.3	88	92	4.4	70 - 130	30
Dichlorodifluoromethane	ND	71	62	13.5	<40	73	NC	70 - 130	30
Ethylbenzene	ND	114	102	11.1	93	102	9.2	70 - 130	30
Hexachlorobutadiene	ND	83	85	9.0	68	77	12.4	70 - 130	30
Isopropylbenzene	ND	119	105	12.5	92	102	10.3	70 - 130	30
m&p-Xylene	ND	121	106	13.2	96	104	8.0	70 - 130	30
Methyl ethyl ketone	ND	88	76	14.6	78	77	1.3	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	119	106	11.6	97	100	3.0	70 - 130	30
Methylene chloride	ND	101	90	11.5	83	89	7.0	70 - 130	30
Naphthalene	ND	121	113	6.8	90	104	14.4	70 - 130	30
n-Butylbenzene	ND	115	101	13.0	86	95	9.9	70 - 130	30
n-Propylbenzene	ND	118	104	12.6	89	98	9.6	70 - 130	30
o-Xylene	ND	59	53	10.7	97	103	6.0	70 - 130	30
p-Isopropyltoluene	ND	116	102	12.8	87	96	9.8	70 - 130	30
sec-Butylbenzene	ND	116	100	14.8	88	98	10.8	70 - 130	30
Styrene	ND	58	51	12.8	96	101	5.1	70 - 130	30
tert-Butylbenzene	ND	117	102	13.7	90	98	8.5	70 - 130	30

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Tetrachloroethene	ND	107	96	10.8	86	95	9.9	70 - 130	30
Tetrahydrofuran (THF)	ND	110	106	3.7	92	88	4.4	70 - 130	30
Toluene	ND	113	100	12.2	93	100	7.3	70 - 130	30
trans-1,2-Dichloroethene	ND	106	95	10.9	86	94	8.9	70 - 130	30
trans-1,3-Dichloropropene	ND	110	103	11.9	84	91	8.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	104	89	15.5	83	89	7.0	70 - 130	30
Trichloroethene	ND	112	99	12.3	90	98	8.5	70 - 130	30
Trichlorofluoromethane	ND	103	91	12.4	78	89	13.2	70 - 130	30
Trichlorotrifluoroethane	ND	98	88	10.8	77	87	12.2	70 - 130	30
Vinyl chloride	ND	96	87	9.8	79	92	15.2	70 - 130	30
% 1,2-dichlorobenzene-d4	99	100	99	1.0	98	99	1.0	70 - 130	30
% Bromofluorobenzene	92	102	102	0.0	102	100	2.0	70 - 130	30
% Dibromofluoromethane	97	102	101	1.0	100	100	0.0	70 - 130	30
% Toluene-d8	95	101	101	0.0	102	100	2.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

QA/QC Batch 212051, QC Sample No: BC83696 (BC83695, BC83696, BC83698, BC83699, BC83700, BC83704, BC83708)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	92	103	11.3	105	102	2.9	70 - 130	30
1,1,1-Trichloroethane	ND	95	107	11.9	105	105	0.0	70 - 130	30
1,1,1,2-Tetrachloroethane	ND	72	61	11.8	101	99	2.0	70 - 130	30
1,1,1-Trichloroethane	ND	83	95	13.5	90	92	2.2	70 - 130	30
1,1-Dichloroethane	ND	91	99	8.4	92	90	2.2	70 - 130	30
1,1-Dichloroethene	ND	96	118	20.6	112	124	10.2	70 - 130	30
1,1-Dichloropropene	ND	93	105	12.1	104	99	4.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	76	104	31.1	92	110	17.8	70 - 130	30
1,2,3-Trichloropropane	ND	90	93	3.3	107	99	7.8	70 - 130	30
1,2,4-Trichlorobenzene	ND	74	99	28.9	105	117	10.8	70 - 130	30
1,2,4-Trimethylbenzene	ND	100	115	14.0	123	120	2.5	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	75	84	11.3	74	81	9.0	70 - 130	30
1,2-Dibromoethane	ND	78	92	16.5	87	90	3.4	70 - 130	30
1,2-Dichlorobenzene	ND	88	101	13.8	106	107	0.9	70 - 130	30
1,2-Dichloroethane	ND	87	99	12.9	103	109	5.7	70 - 130	30
1,2-Dichloropropane	ND	91	103	12.4	101	101	0.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	100	114	13.1	124	119	4.1	70 - 130	30
1,3-Dichlorobenzene	ND	89	103	14.6	112	108	3.6	70 - 130	30
1,3-Dichloropropane	ND	87	97	10.9	96	95	1.0	70 - 130	30
1,4-Dichlorobenzene	ND	86	100	15.1	111	108	2.7	70 - 130	30
2,2-Dichloropropane	ND	87	100	13.9	96	95	1.0	70 - 130	30
2-Chlorotoluene	ND	98	109	10.6	117	111	5.3	70 - 130	30
2-Hexanone	ND	89	104	15.5	87	91	4.5	70 - 130	30
2-Isopropyltoluene	ND	99	116	15.8	122	118	3.3	70 - 130	30
4-Chlorotoluene	ND	91	104	13.3	116	111	4.4	70 - 130	30
4-Methyl-2-pentanone	ND	86	102	17.0	104	111	6.5	70 - 130	30
Acetone	ND	101	132	26.8	82	80	25.4	70 - 130	30
Acrylonitrile	ND	73	87	17.5	85	85	0.0	70 - 130	30
Benzene	ND	97	109	11.7	109	110	0.9	70 - 130	30
Bromobenzene	ND	89	98	9.6	104	99	4.9	70 - 130	30
Bromochloromethane	ND	79	90	13.0	84	85	1.2	70 - 130	30
Bromodichloromethane	ND	89	100	11.6	97	100	3.0	70 - 130	30
Bromofom	ND	86	95	9.9	92	93	1.1	70 - 130	30
Bromomethane	ND	96	100	9.9	80	90	4.5	70 - 130	30

lm

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Carbon Disulfide	ND	95	107	11.9	111	113	1.8	70 - 130	30
Carbon tetrachloride	ND	91	99	8.4	95	92	3.2	70 - 130	30
Chlorobenzene	ND	94	104	10.1	113	110	2.7	70 - 130	30
Chloroethane	ND	100	112	11.3	56	55	1.8	70 - 130	30
Chloroform	ND	90	101	11.5	96	98	2.1	70 - 130	30
Chloromethane	ND	79	92	15.2	81	89	9.4	70 - 130	30
cis-1,2-Dichloroethene	ND	89	100	11.6	91	93	2.2	70 - 130	30
cis-1,3-Dichloropropene	ND	85	99	15.2	98	102	4.0	70 - 130	30
Dibromochloromethane	ND	85	93	9.0	86	84	2.4	70 - 130	30
Dibromomethane	ND	81	96	16.9	88	91	3.4	70 - 130	30
Dichlorodifluoromethane	ND	72	84	15.4	85	85	0.0	70 - 130	30
Ethylbenzene	ND	96	107	10.8	117	113	3.5	70 - 130	30
Hexachlorobutadiene	ND	85	111	26.5	110	112	1.8	70 - 130	30
Isopropylbenzene	ND	104	115	10.0	121	112	7.7	70 - 130	30
m&p-Xylene	ND	96	109	12.7	119	116	2.6	70 - 130	30
Methyl ethyl ketone	ND	87	107	20.0	84	94	11.2	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	71	77	8.1	79	77	2.6	70 - 130	30
Methylene chloride	ND	82	100	19.8	101	117	14.7	70 - 130	30
Naphthalene	ND	82	119	36.8	87	119	31.1	70 - 130	30
n-Butylbenzene	ND	98	118	18.5	130	130	0.0	70 - 130	30
n-Propylbenzene	ND	104	116	10.9	123	115	6.7	70 - 130	30
o-Xylene	ND	98	110	11.5	121	118	2.5	70 - 130	30
p-Isopropyltoluene	ND	102	120	16.2	128	123	4.0	70 - 130	30
sec-Butylbenzene	ND	102	116	12.8	127	119	6.5	70 - 130	30
Styrene	ND	92	102	10.3	114	115	0.9	70 - 130	30
tert-Butylbenzene	ND	105	118	11.7	123	116	5.9	70 - 130	30
Tetrachloroethene	ND	90	99	9.5	103	94	9.1	70 - 130	30
Tetrahydrofuran (THF)	ND	84	100	17.4	99	109	9.6	70 - 130	30
Toluene	ND	94	107	12.9	113	112	0.9	70 - 130	30
trans-1,2-Dichloroethene	ND	75	79	5.2	75	78	3.9	70 - 130	30
trans-1,3-Dichloropropene	ND	84	100	17.4	102	112	9.3	70 - 130	30
trans-1,4-dichloro-2-butene	ND	76	88	14.8	88	87	1.2	70 - 130	30
Trichloroethene	ND	99	110	10.6	99	95	4.1	70 - 130	30
Trichlorofluoromethane	ND	97	137	34.2	53	<40	NC	70 - 130	30
Trichlorotrifluoroethane	ND	86	118	31.4	110	128	15.1	70 - 130	30
Vinyl chloride	ND	83	114	31.5	72	100	32.6	70 - 130	30
% 1,2-dichlorobenzene-d4	100	100	100	0.0	97	98	1.0	70 - 130	30
% Bromofluorobenzene	94	99	99	0.0	104	105	1.0	70 - 130	30
% Dibromofluoromethane	101	85	88	3.5	77	84	8.7	70 - 130	30
% Toluene-d8	105	100	101	1.0	101	102	1.0	70 - 130	30

QA/QC Batch 211920, QC Sample No: BC83702 (BC83701, BC83702, BC83703, BC83705, BC83706, BC83707, BC83709, BC83710)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	103	100	3.0	85	83	2.4	70 - 130	30
1,1,1-Trichloroethane	ND	99	98	1.0	86	86	0.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	96	94	2.1	51	55	7.5	70 - 130	30
1,1,2-Trichloroethane	ND	110	109	0.9	90	91	1.1	70 - 130	30
1,1-Dichloroethane	ND	101	105	3.9	92	94	2.2	70 - 130	30
1,1-Dichloroethene	ND	96	94	2.1	83	84	1.2	70 - 130	30
1,1-Dichloropropene	ND	107	103	3.8	90	89	1.1	70 - 130	30
1,2,3-Trichlorobenzene	ND	97	98	1.0	<40	<40	NC	70 - 130	30
1,2,3-Trichloropropane	ND	96	91	5.3	92	78	16.5	70 - 130	30

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4-Trichlorobenzene	ND	91	91	0.0	<40	<40	NC	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	98	96	2.1	81	74	9.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	106	103	2.9	76	78	2.6	70 - 130	30	
1,2-Dibromoethane	ND	109	107	1.9	85	85	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	97	95	2.1	71	66	7.3	70 - 130	30	m
1,2-Dichloroethane	ND	92	93	1.1	80	82	2.6	70 - 130	30	
1,2-Dichloropropane	ND	109	107	1.9	93	94	1.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	95	93	2.1	82	76	7.6	70 - 130	30	
1,3-Dichlorobenzene	ND	97	94	3.1	73	67	8.6	70 - 130	30	m
1,3-Dichloropropane	ND	102	101	1.0	90	88	2.2	70 - 130	30	
1,4-Dichlorobenzene	ND	96	93	3.2	71	85	8.8	70 - 130	30	m
2,2-Dichloropropane	ND	99	97	2.0	83	83	0.0	70 - 130	30	
2-Chlorotoluene	ND	101	99	2.0	89	83	7.0	70 - 130	30	
2-Hexanone	ND	86	89	3.4	105	99	5.9	70 - 130	30	
2-Isopropyltoluene	ND	97	95	2.1	76	71	6.8	70 - 130	30	
4-Chlorotoluene	ND	97	94	3.1	85	77	8.9	70 - 130	30	
4-Methyl-2-pentanone	ND	106	104	1.9	91	91	0.0	70 - 130	30	
Acetone	ND	72	68	5.7	105	102	2.9	70 - 130	30	i
Acrylonitrile	ND	107	112	4.6	89	89	0.0	70 - 130	30	
Benzene	ND	107	104	2.8	91	91	0.0	70 - 130	30	
Bromobenzene	ND	101	99	2.0	90	83	8.1	70 - 130	30	
Bromochloromethane	ND	110	109	0.9	96	96	0.0	70 - 130	30	
Bromodichloromethane	ND	104	101	2.9	85	86	1.2	70 - 130	30	
Bromoform	ND	110	110	0.0	76	76	0.0	70 - 130	30	
Bromomethane	ND	79	79	0.0	71	72	1.4	70 - 130	30	
Carbon Disulfide	ND	89	88	1.1	72	72	0.0	70 - 130	30	
Carbon tetrachloride	ND	96	93	3.2	80	80	0.0	70 - 130	30	
Chlorobenzene	ND	100	97	3.0	82	77	6.3	70 - 130	30	
Chloroethane	ND	87	87	0.0	77	80	3.8	70 - 130	30	
Chloroform	ND	103	102	1.0	90	92	2.2	70 - 130	30	
Chloromethane	ND	101	102	1.0	91	94	3.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	111	111	0.0	93	93	0.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	106	104	1.9	83	82	1.2	70 - 130	30	
Dibromochloromethane	ND	106	106	0.0	85	84	1.2	70 - 130	30	
Dibromomethane	ND	105	103	1.9	85	86	1.2	70 - 130	30	
Dichlorodifluoromethane	ND	79	79	0.0	74	74	0.0	70 - 130	30	
Ethylbenzene	ND	96	94	2.1	82	77	6.3	70 - 130	30	
Hexachlorobutadiene	ND	92	90	2.2	<40	<40	NC	70 - 130	30	m
Isopropylbenzene	ND	101	97	4.0	94	88	6.6	70 - 130	30	
m&p-Xylene	ND	99	97	2.0	82	76	7.6	70 - 130	30	
Methyl ethyl ketone	ND	85	85	0.0	117	118	0.9	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	91	90	1.1	83	86	3.6	70 - 130	30	
Methylene chloride	ND	93	93	0.0	84	84	0.0	70 - 130	30	
Naphthalene	ND	108	110	1.8	48	55	13.6	70 - 130	30	m
n-Butylbenzene	ND	91	89	2.2	82	56	10.2	70 - 130	30	m
n-Propylbenzene	ND	103	100	3.0	89	83	7.0	70 - 130	30	
o-Xylene	ND	106	102	3.8	82	77	6.3	70 - 130	30	
p-Isopropyltoluene	ND	98	96	2.1	74	67	9.9	70 - 130	30	m
sec-Butylbenzene	ND	96	94	2.1	78	71	6.8	70 - 130	30	
Styrene	ND	102	100	2.0	78	73	5.6	70 - 130	30	
tert-Butylbenzene	ND	102	99	3.0	84	79	5.1	70 - 130	30	
Tetrachloroethene	ND	102	97	5.0	86	81	6.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	106	107	0.9	96	97	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Toluene	ND	100	103	2.9	87	86	1.2	70 - 130	30
trans-1,2-Dichloroethene	ND	95	94	1.1	80	78	2.5	70 - 130	30
trans-1,3-Dichloropropene	ND	101	100	1.0	76	76	0.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	95	95	0.0	79	72	9.3	70 - 130	30
Trichloroethene	ND	111	108	2.7	122	116	5.0	70 - 130	30
Trichlorofluoromethane	ND	91	91	0.0	77	78	1.3	70 - 130	30
Trichlorotrifluoroethane	ND	92	90	2.2	84	80	4.9	70 - 130	30
Vinyl chloride	ND	91	92	1.1	82	84	2.4	70 - 130	30
% 1,2-dichlorobenzene-d4	100	101	100	1.0	100	99	1.0	70 - 130	30
% Bromofluorobenzene	96	98	99	1.0	92	92	0.0	70 - 130	30
% Dibromofluoromethane	95	104	107	2.8	103	104	1.0	70 - 130	30
% Toluene-d8	100	100	100	0.0	99	100	1.0	70 - 130	30

QA/QC Batch 211680, QC Sample No: BC83709 (BC83695, BC83696, BC83697, BC83698, BC83699, BC83700, BC83701, BC83702, BC83703, BC83704, BC83705, BC83706, BC83707, BC83708, BC83709, BC83710)

Pesticides - Soil

4,4'-DDD	ND	65	54	18.5	60	60	0.0	40 - 140	30
4,4'-DDE	ND	82	77	6.3	80	79	1.3	40 - 140	30
4,4'-DDT	ND	74	65	12.9	68	67	1.5	40 - 140	30
a-BHC	ND	95	92	3.2	95	96	1.0	40 - 140	30
a-Chlordane	ND	90	87	3.4	90	90	0.0	40 - 140	30
Alachlor	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
Aldrin	ND	90	88	2.2	90	91	1.1	40 - 140	30
b-BHC	ND	91	88	3.4	93	92	1.1	40 - 140	30
Chlordane	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
d-BHC	ND	86	83	3.6	86	87	1.2	40 - 140	30
Dieldrin	ND	93	90	3.3	93	93	0.0	40 - 140	30
Endosulfan I	ND	90	88	2.2	91	92	1.1	40 - 140	30
Endosulfan II	ND	78	75	3.9	85	87	2.3	40 - 140	30
Endosulfan sulfate	ND	73	75	2.7	79	81	2.5	40 - 140	30
Endrin	ND	79	74	6.5	78	78	2.6	40 - 140	30
Endrin aldehyde	ND	95	86	9.9	112	114	1.8	40 - 140	30
Endrin ketone	ND	85	82	3.6	88	88	0.0	40 - 140	30
g-BHC	ND	92	89	3.3	92	93	1.1	40 - 140	30
g-Chlordane	ND	91	89	2.2	91	92	1.1	40 - 140	30
Heptachlor	ND	91	88	3.4	88	90	2.2	40 - 140	30
Heptachlor epoxide	ND	91	88	3.4	91	92	1.1	40 - 140	30
Methoxychlor	ND	72	63	13.3	64	62	20.7	40 - 140	30
Toxaphene	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
% DCBP	79	95	89	6.5	90	88	2.2	30 - 150	30
% TCMX	76	95	93	2.1	94	95	2.1	30 - 150	30

QA/QC Batch 211685, QC Sample No: BC83709 (BC83706, BC83707, BC83708, BC83709, BC83710)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	72	73	1.4	78	81	3.8	30 - 130	30
1,2,4-Trichlorobenzene	ND	72	72	0.0	77	81	5.1	30 - 130	30
1,2-Dichlorobenzene	ND	74	73	1.4	80	84	4.9	30 - 130	30
1,2-Diphenylhydrazine	ND	79	78	1.3	82	87	5.9	30 - 130	30
1,3-Dichlorobenzene	ND	73	71	2.8	79	81	2.5	30 - 130	30
1,4-Dichlorobenzene	ND	74	72	2.7	80	83	3.7	30 - 130	30
2,4,5-Trichlorophenol	ND	78	77	1.3	83	89	7.0	30 - 130	30
2,4,6-Trichlorophenol	ND	80	79	1.3	84	91	8.0	30 - 130	30
2,4-Dichlorophenol	ND	75	75	0.0	80	84	4.9	30 - 130	30
2,4-Dimethylphenol	ND	49	46	6.3	50	52	3.9	30 - 130	30

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2,4-Dinitrophenol	ND	16	33	69.4	<5	<5	NC	30 - 130	30	l,m,r
2,4-Dinitrotoluene	ND	73	76	4.0	79	87	9.6	30 - 130	30	
2,6-Dinitrotoluene	ND	75	77	2.6	83	90	8.1	30 - 130	30	
2-Chloronaphthalene	ND	79	78	1.3	84	89	5.8	30 - 130	30	
2-Chlorophenol	ND	75	74	1.3	80	84	4.9	30 - 130	30	
2-Methylnaphthalene	ND	72	71	1.4	77	79	2.6	30 - 130	30	
2-Methylphenol (o-cresol)	ND	74	73	1.4	80	80	0.0	30 - 130	30	
2-Nitroaniline	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	lm
2-Nitrophenol	ND	69	71	2.9	78	83	6.2	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	76	75	1.3	79	83	4.9	30 - 130	30	
3,3'-Dichlorobenzidine	ND	148	147	0.7	>150	>150	NC	30 - 130	30	lm
3-Nitroaniline	ND	76	77	1.3	83	89	7.0	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	53	63	17.2	33	48	37.0	30 - 130	30	r
4-Bromophenyl phenyl ether	ND	81	80	1.2	87	93	6.7	30 - 130	30	
4-Chloro-3-methylphenol	ND	75	76	1.3	80	84	4.9	30 - 130	30	
4-Chloroaniline	ND	81	88	3.4	92	90	2.2	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	83	82	1.2	87	93	6.7	30 - 130	30	
4-Nitroaniline	ND	77	78	1.3	84	90	6.9	30 - 130	30	
4-Nitrophenol	ND	73	77	5.3	68	80	16.2	30 - 130	30	
Acenaphthene	ND	78	77	1.3	81	86	6.0	30 - 130	30	
Acenaphthylene	ND	77	75	2.6	81	86	6.0	30 - 130	30	
Acetophenone	ND	78	77	1.3	84	87	3.5	30 - 130	30	
Aniline	ND	85	83	2.4	80	84	4.9	30 - 130	30	
Anthracene	ND	81	80	1.2	86	92	6.7	30 - 130	30	
Benz(a)anthracene	ND	80	81	1.2	86	91	5.6	30 - 130	30	
Benzidine	ND	79	80	1.3	53	68	24.8	30 - 130	30	
Benzo(a)pyrene	ND	79	78	1.3	83	89	7.0	30 - 130	30	
Benzo(b)fluoranthene	ND	86	85	1.2	92	98	6.3	30 - 130	30	
Benzo(ghi)perylene	ND	74	77	4.0	85	92	7.9	30 - 130	30	
Benzo(k)fluoranthene	ND	89	88	3.4	88	98	10.8	30 - 130	30	
Benzyl butyl phthalate	ND	80	82	2.5	86	91	5.6	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	77	78	1.3	81	84	3.6	30 - 130	30	
Bis(2-chloroethyl)ether	ND	71	70	1.4	81	82	1.2	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	78	76	2.0	83	86	3.6	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	82	84	2.4	89	92	3.3	30 - 130	30	
Carbazole	ND	119	119	0.0	120	133	10.3	30 - 130	30	m
Chrysene	ND	80	80	0.0	85	90	5.7	30 - 130	30	
Dibenz(a,h)anthracene	ND	79	81	2.5	89	95	6.5	30 - 130	30	
Dibenzofuran	ND	79	77	2.6	82	87	5.9	30 - 130	30	
Diethyl phthalate	ND	83	83	0.0	87	93	6.7	30 - 130	30	
Dimethylphthalate	ND	82	82	0.0	86	93	7.8	30 - 130	30	
Di-n-butylphthalate	ND	83	84	1.2	89	94	5.5	30 - 130	30	
Di-n-octylphthalate	ND	86	88	0.0	94	95	1.1	30 - 130	30	
Fluoranthene	ND	81	81	0.0	85	96	12.2	30 - 130	30	
Fluorene	ND	80	79	1.3	84	90	6.9	30 - 130	30	
Hexachlorobenzene	ND	82	82	0.0	88	91	3.4	30 - 130	30	
Hexachlorobutadiene	ND	73	73	0.0	79	82	3.7	30 - 130	30	
Hexachlorocyclopentadiene	ND	82	84	3.2	70	76	8.2	30 - 130	30	
Hexachloroethane	ND	74	73	1.4	81	84	3.6	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	77	80	3.8	87	94	7.7	30 - 130	30	
Isophorone	ND	77	78	1.3	81	85	4.8	30 - 130	30	
Naphthalene	ND	60	59	1.7	65	67	3.0	30 - 130	30	
Nitrobenzene	ND	76	76	0.0	83	86	3.6	30 - 130	30	

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
N-Nitrosodimethylamine	ND	67	65	3.0	71	75	5.5	30 - 130	30
N-Nitrosodi-n-propylamine	ND	77	75	2.6	81	83	2.4	30 - 130	30
N-Nitrosodiphenylamine	ND	87	88	1.1	91	98	7.4	30 - 130	30
Pentachloronitrobenzene	ND	79	80	1.3	86	93	7.8	30 - 130	30
Pentachlorophenol	ND	64	79	21.0	79	91	14.1	30 - 130	30
Phenanthrene	ND	82	81	1.2	88	94	6.6	30 - 130	30
Phenol	ND	77	76	1.3	81	85	4.8	30 - 130	30
Pyrene	ND	83	82	1.2	88	99	11.8	30 - 130	30
Pyridine	ND	57	54	5.4	59	60	1.7	30 - 130	30
% 2,4,6-Tribromophenol	88	85	85	0.0	90	96	6.5	30 - 130	30
% 2-Fluorobiphenyl	87	76	74	2.7	79	84	5.1	40 - 140	30
% 2-Fluorophenol	89	74	72	2.7	77	81	5.1	30 - 130	30
% Nitrobenzene-d5	71	74	74	0.0	81	83	2.4	40 - 140	30
% Phenol-d5	75	76	74	2.7	79	83	4.9	30 - 130	30
% Terphenyl-d14	83	85	84	1.2	88	102	14.7	40 - 140	30

QA/QC Batch 211688, QC Sample No: BC83711 (BC83711, BC83712, BC83713, BC83714)

Semivolatiles - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	76	76	0.0				30 - 130	20
1,2,4-Trichlorobenzene	ND	77	76	1.3				30 - 130	20
1,2-Dichlorobenzene	ND	75	74	1.3				30 - 130	20
1,2-Diphenylhydrazine	ND	89	88	1.1				30 - 130	20
1,3-Dichlorobenzene	ND	74	73	1.4				30 - 130	20
1,4-Dichlorobenzene	ND	76	75	0.0				30 - 130	20
2,4,5-Trichlorophenol	ND	76	76	0.0				30 - 130	20
2,4,6-Trichlorophenol	ND	76	76	0.0				30 - 130	20
2,4-Dichlorophenol	ND	80	80	0.0				30 - 130	20
2,4-Dimethylphenol	ND	47	47	0.0				30 - 130	20
2,4-Dinitrophenol	ND	40	47	16.1				30 - 130	20
2,4-Dinitrotoluene	ND	80	80	0.0				30 - 130	20
2,6-Dinitrotoluene	ND	82	81	1.2				30 - 130	20
2-Chloronaphthalene	ND	79	78	1.3				30 - 130	20
2-Chlorophenol	ND	73	72	1.4				30 - 130	20
2-Methylnaphthalene	ND	81	80	1.2				30 - 130	20
2-Methylphenol (o-cresol)	ND	82	80	2.5				30 - 130	20
2-Nitroaniline	ND	>150	>150	NC				30 - 130	20
2-Nitrophenol	ND	74	77	4.0				30 - 130	20
3&4-Methylphenol (m&p-cresol)	ND	77	79	2.6				30 - 130	20
3,3'-Dichlorobenzidine	ND	N/A	N/A	NC				30 - 130	20
3-Nitroaniline	ND	81	81	0.0				30 - 130	20
4,6-Dinitro-2-methylphenol	ND	57	64	11.8				30 - 130	20
4-Bromophenyl phenyl ether	ND	79	79	0.0				30 - 130	20
4-Chloro-3-methylphenol	ND	86	85	1.2				30 - 130	20
4-Chloroaniline	ND	92	93	1.1				30 - 130	20
4-Chlorophenyl phenyl ether	ND	84	82	2.4				30 - 130	20
4-Nitroaniline	ND	86	85	0.0				30 - 130	20
4-Nitrophenol	ND	82	83	1.2				30 - 130	20
Acenaphthene	ND	81	81	0.0				30 - 130	20
Acenaphthylene	ND	79	78	1.3				30 - 130	20
Acetophenone	ND	83	84	1.2				30 - 130	20
Aniline	ND	N/A	N/A	NC				30 - 130	20
Anthracene	ND	83	84	1.2				30 - 130	20
Benz(a)anthracene	ND	89	90	1.1				30 - 130	20

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzidine	ND	N/A	N/A	NC				30 - 130	20
Benzo(a)pyrene	ND	76	76	0.0				30 - 130	20
Benzo(b)fluoranthene	ND	82	83	1.2				30 - 130	20
Benzo(ghi)perylene	ND	89	81	2.2				30 - 130	20
Benzo(k)fluoranthene	ND	82	81	1.2				30 - 130	20
Benzoic acid	ND	N/A	N/A	NC				30 - 130	20
Benzyl butyl phthalate	ND	85	86	1.2				30 - 130	20
Bis(2-chloroethoxy)methane	ND	86	86	0.0				30 - 130	20
Bis(2-chloroethyl)ether	ND	75	75	0.0				30 - 130	20
Bis(2-chloroisopropyl)ether	ND	87	87	0.0				30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	85	84	1.1				30 - 130	20
Carbazole	ND	120	123	2.5				30 - 130	20
Chrysene	ND	83	83	0.0				30 - 130	20
Dibenz(a,h)anthracene	ND	91	93	2.2				30 - 130	20
Dibenzofuran	ND	81	80	1.2				30 - 130	20
Diethyl phthalate	ND	89	89	0.0				30 - 130	20
Dimethylphthalate	ND	87	86	1.2				30 - 130	20
Di-n-butylphthalate	ND	101	102	1.0				30 - 130	20
Di-n-octylphthalate	ND	88	82	6.3				30 - 130	20
Fluoranthene	ND	86	86	0.0				30 - 130	20
Fluorene	ND	85	84	1.2				30 - 130	20
Hexachlorobenzene	ND	85	88	3.5				30 - 130	20
Hexachlorobutadiene	ND	76	75	1.3				30 - 130	20
Hexachlorocyclopentadiene	ND	35	38	8.2				30 - 130	20
Hexachloroethane	ND	72	72	0.0				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	91	92	1.1				30 - 130	20
Isophorone	ND	90	90	0.0				30 - 130	20
Naphthalene	ND	88	88	0.0				30 - 130	20
Nitrobenzene	ND	82	82	0.0				30 - 130	20
N-Nitrosodimethylamine	ND	70	68	2.9				30 - 130	20
N-Nitrosodi-n-propylamine	ND	84	85	1.2				30 - 130	20
N-Nitrosodiphenylamine	ND	92	91	1.1				30 - 130	20
Pentachloronitrobenzene	ND	81	83	2.4				30 - 130	20
Pentachlorophenol	ND	67	71	5.8				30 - 130	20
Phenanthrene	ND	86	86	0.0				30 - 130	20
Phenol	ND	75	75	0.0				30 - 130	20
Pyrene	ND	88	88	0.0				30 - 130	20
Pyridine	ND	89	88	2.6				30 - 130	20
% 2,4,6-Tribromophenol	102	86	89	3.4				30 - 130	20
% 2-Fluorobiphenyl	88	72	71	1.4				40 - 140	20
% 2-Fluorophenol	88	64	64	0.0				30 - 130	20
% Nitrobenzene-d5	78	79	79	0.0				40 - 140	20
% Phenol-d5	67	69	69	0.0				30 - 130	20
% Terphenyl-d14	79	85	85	0.0				40 - 140	20

QA/QC Batch 211814, QC Sample No: BC84300 (BC84150)

Volatiles - Water

1,1,1,2-Tetrachloroethane	ND	105	107	1.9				70 - 130	30
1,1,1-Trichloroethane	ND	98	100	2.0				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	99	96	3.1				70 - 130	30
1,1,2-Trichloroethane	ND	98	99	1.0				70 - 130	30
1,1-Dichloroethane	ND	98	98	0.0				70 - 130	30
1,1-Dichloroethene	ND	92	93	1.1				70 - 130	30

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1-Dichloropropene	ND	98	101	3.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	93	94	1.1				70 - 130	30
1,2,3-Trichloropropane	ND	105	101	3.9				70 - 130	30
1,2,4-Trichlorobenzene	ND	93	92	1.1				70 - 130	30
1,2,4-Trimethylbenzene	ND	103	104	1.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	118	122	3.3				70 - 130	30
1,2-Dibromoethane	ND	96	97	1.0				70 - 130	30
1,2-Dichlorobenzene	ND	95	94	1.1				70 - 130	30
1,2-Dichloroethane	ND	92	94	2.2				70 - 130	30
1,2-Dichloropropane	ND	99	100	1.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	102	102	0.0				70 - 130	30
1,3-Dichlorobenzene	ND	97	98	1.0				70 - 130	30
1,3-Dichloropropane	ND	106	107	0.9				70 - 130	30
1,4-Dichlorobenzene	ND	94	94	0.0				70 - 130	30
2,2-Dichloropropane	ND	134	132	1.5				70 - 130	30
2-Chlorotoluene	ND	101	101	0.0				70 - 130	30
2-Hexanone	ND	110	110	0.0				70 - 130	30
2-Isopropyltoluene	ND	97	97	0.0				70 - 130	30
4-Chlorotoluene	ND	97	98	1.0				70 - 130	30
4-Methyl-2-pentanone	ND	95	97	2.1				70 - 130	30
Acetone	ND	77	75	2.0				70 - 130	30
Acrylonitrile	ND	97	95	2.1				70 - 130	30
Benzene	ND	97	102	5.0				70 - 130	30
Bromobenzene	ND	95	95	0.0				70 - 130	30
Bromochloromethane	ND	98	98	0.0				70 - 130	30
Bromodichloromethane	ND	97	98	1.0				70 - 130	30
Bromoform	ND	109	109	0.0				70 - 130	30
Bromomethane	ND	71	75	5.5				70 - 130	30
Carbon Disulfide	ND	90	93	3.3				70 - 130	30
Carbon tetrachloride	ND	100	101	1.0				70 - 130	30
Chlorobenzene	ND	100	102	2.0				70 - 130	30
Chloroethane	ND	85	85	0.0				70 - 130	30
Chloroform	ND	93	94	1.1				70 - 130	30
Chloromethane	ND	76	79	3.9				70 - 130	30
cis-1,2-Dichloroethene	ND	99	99	0.0				70 - 130	30
cis-1,3-Dichloropropene	ND	104	108	3.8				70 - 130	30
Dibromochloromethane	ND	111	109	1.8				70 - 130	30
Dibromomethane	ND	97	97	0.0				70 - 130	30
Dichlorodifluoromethane	ND	72	70	2.8				70 - 130	30
Ethylbenzene	ND	101	103	2.0				70 - 130	30
Hexachlorobutadiene	ND	84	78	7.4				70 - 130	30
Isopropylbenzene	ND	105	106	0.9				70 - 130	30
m&p-Xylene	ND	100	109	2.8				70 - 130	30
Methyl ethyl ketone	ND	78	74	5.3				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	97	99	2.0				70 - 130	30
Methylene chloride	ND	91	92	1.1				70 - 130	30
Naphthalene	ND	108	111	2.7				70 - 130	30
n-Butylbenzene	ND	102	100	2.0				70 - 130	30
n-Propylbenzene	ND	104	103	1.0				70 - 130	30
o-Xylene	ND	52	54	3.8				70 - 130	30
p-Isopropyltoluene	ND	102	101	1.0				70 - 130	30
sec-Butylbenzene	ND	101	100	1.0				70 - 130	30
Styrene	ND	50	52	3.9				70 - 130	30

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
tert-Butylbenzene	ND	100	102	2.0				70 - 130	30
Tetrachloroethene	ND	96	99	3.1				70 - 130	30
Tetrahydrofuran (THF)	ND	95	91	4.3				70 - 130	30
Toluene	ND	98	102	4.0				70 - 130	30
trans-1,2-Dichloroethene	ND	95	99	4.1				70 - 130	30
trans-1,3-Dichloropropene	ND	103	104	1.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	110	109	0.9				70 - 130	30
Trichloroethene	ND	97	102	5.0				70 - 130	30
Trichlorofluoromethane	ND	93	93	0.0				70 - 130	30
Trichlorotrifluoroethane	ND	87	86	1.2				70 - 130	30
Vinyl chloride	ND	88	92	4.4				70 - 130	30
% 1,2-dichlorobenzene-d4	98	99	97	2.0				70 - 130	30
% Bromofluorobenzene	94	103	102	1.0				70 - 130	30
% Dibromofluoromethane	99	98	98	0.0				70 - 130	30
% Toluene-d8	96	100	102	2.0				70 - 130	30

Comment:

The MS/MSD is not reported for this batch.

QA/QC Batch 211919, QC Sample No: BC86243 (BC83697)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	105	101	3.9				70 - 130	30
1,1,1-Trichloroethane	ND	114	119	4.3				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	109	91	18.0				70 - 130	30
1,1,2-Trichloroethane	ND	120	104	14.3				70 - 130	30
1,1-Dichloroethane	ND	112	114	1.8				70 - 130	30
1,1-Dichloroethene	ND	125	119	4.9				70 - 130	30
1,1-Dichloropropene	ND	102	109	6.6				70 - 130	30
1,2,3-Trichlorobenzene	ND	110	80	31.6				70 - 130	30
1,2,3-Trichloropropane	ND	118	93	23.7				70 - 130	30
1,2,4-Trichlorobenzene	ND	100	70	35.3				70 - 130	30
1,2,4-Trimethylbenzene	ND	103	89	14.6				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	124	95	26.5				70 - 130	30
1,2-Dibromoethane	ND	124	104	17.5				70 - 130	30
1,2-Dichlorobenzene	ND	102	86	17.0				70 - 130	30
1,2-Dichloroethane	ND	119	105	12.6				70 - 130	30
1,2-Dichloropropane	ND	109	103	5.7				70 - 130	30
1,3,5-Trimethylbenzene	ND	101	90	11.6				70 - 130	30
1,3-Dichlorobenzene	ND	98	84	15.4				70 - 130	30
1,3-Dichloropropane	ND	112	98	13.3				70 - 130	30
1,4-Dichlorobenzene	ND	99	81	20.0				70 - 130	30
2,2-Dichloropropane	ND	112	117	4.4				70 - 130	30
2-Chlorotoluene	ND	101	93	8.2				70 - 130	30
2-Hexanone	ND	121	93	26.2				70 - 130	30
2-Isopropyltoluene	ND	97	82	16.8				70 - 130	30
4-Chlorotoluene	ND	96	85	12.2				70 - 130	30
4-Methyl-2-pentanone	ND	126	95	26.1				70 - 130	30
Acetone	ND	>150	107	NC				70 - 130	30
Acrylonitrile	ND	129	108	19.6				70 - 130	30
Benzene	ND	105	104	1.0				70 - 130	30
Bromobenzene	ND	102	91	11.4				70 - 130	30
Bromochloromethane	ND	122	109	11.3				70 - 130	30
Bromodichloromethane	ND	114	104	9.2				70 - 130	30
Bromoform	ND	120	98	20.2				70 - 130	30

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromomethane	ND	108	113	4.5				70 - 130	30
Carbon Disulfide	ND	115	103	11.0				70 - 130	30
Carbon tetrachloride	ND	108	111	2.7				70 - 130	30
Chlorobenzene	ND	100	95	5.1				70 - 130	30
Chloroethane	ND	121	111	8.6				70 - 130	30
Chloroform	ND	115	112	2.0				70 - 130	30
Chloromethane	ND	93	98	5.2				70 - 130	30
cis-1,2-Dichloroethene	ND	116	114	1.7				70 - 130	30
cis-1,3-Dichloropropene	ND	113	103	9.3				70 - 130	30
Dibromochloromethane	ND	113	101	11.2				70 - 130	30
Dibromomethane	ND	122	103	16.9				70 - 130	30
Dichlorodifluoromethane	ND	82	89	8.2				70 - 130	30
Ethylbenzene	ND	96	96	0.0				70 - 130	30
Hexachlorobutadiene	ND	97	52	80.4				70 - 130	30
Isopropylbenzene	ND	99	95	4.1				70 - 130	30
m&p-Xylene	ND	98	97	1.0				70 - 130	30
Methyl ethyl ketone	ND	130	95	31.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	114	89	14.1				70 - 130	30
Methylene chloride	ND	119	97	20.4				70 - 130	30
Naphthalene	ND	128	107	17.9				70 - 130	30
n-Butylbenzene	ND	96	72	28.6				70 - 130	30
n-Propylbenzene	ND	102	91	11.4				70 - 130	30
o-Xylene	ND	50	48	4.1				70 - 130	30
p-Isopropyltoluene	ND	102	83	20.6				70 - 130	30
sec-Butylbenzene	ND	98	87	11.9				70 - 130	30
Styrene	ND	50	45	10.5				70 - 130	30
tert-Butylbenzene	ND	101	94	7.2				70 - 130	30
Tetrachloroethene	ND	95	99	4.1				70 - 130	30
Tetrahydrofuran (THF)	ND	130	89	27.1				70 - 130	30
Toluene	ND	106	104	1.9				70 - 130	30
trans-1,2-Dichloroethene	ND	104	111	6.5				70 - 130	30
trans-1,3-Dichloropropene	ND	118	102	14.5				70 - 130	30
trans-1,4-dichloro-2-butene	ND	116	84	21.0				70 - 130	30
Trichloroethene	ND	105	100	0.9				70 - 130	30
Trichlorofluoromethane	ND	125	137	9.2				70 - 130	30
Trichlorotrifluoroethane	ND	118	121	2.5				70 - 130	30
Vinyl chloride	ND	104	121	15.1				70 - 130	30
% 1,2-dichlorobenzene-d4	101	103	100	3.0				70 - 130	30
% Bromofluorobenzene	96	105	103	1.9				70 - 130	30
% Dibromofluoromethane	104	111	105	5.6				70 - 130	30
% Toluene-d8	99	101	102	1.0				70 - 130	30

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.

m = This parameter is outside laboratory ms/msd specified recovery limits.

r = This parameter is outside laboratory rpd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

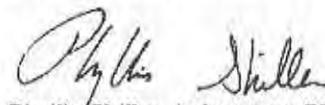
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Inf - Interference



Phyllis Shiller, Laboratory Director
October 24, 2012

QA/QC Data

SDG I.D.: GBC83695

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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Sample Criteria Exceedences Report

Requested Criteria: None

State: NY

GBC03695 - AEAS-INC

Sample No	Accode	Phoenix Analysts	Criteria	Result	RL Criteria	RL Criteria	Analysis Units
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... No Data to Display ...

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



APPENDIX 6

Laboratory Data Deliverables for Soil Vapor Analytical Data



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 22, 2012

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information

Matrix: AIR
Location Code: AEAS-INC
Rush Request: Standard
P.O.#:

Custody Information

Collected by: AO
Received by: LB
Analyzed by: see "By" below

Date Time
10/15/12 18:44
10/16/12 15:33

Laboratory Data

SDG ID: GBC83715
Phoenix ID: BC83715

Project ID: 491 EAST 165TH ST,
Client ID: SV-3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	10/17/12	KCA	TO15 1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	10/17/12	KCA	TO15
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	10/17/12	KCA	TO15
1,1,2-Trichloroethane	ND	0.183	ND	1.00	10/17/12	KCA	TO15
1,1-Dichloroethane	ND	0.247	ND	1.00	10/17/12	KCA	TO15
1,1-Dichloroethene	ND	0.252	ND	1.00	10/17/12	KCA	TO15
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	10/17/12	KCA	TO15
1,2,4-Trimethylbenzene	14	0.204	68.8	1.00	10/17/12	KCA	TO15
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	10/17/12	KCA	TO15
1,2-Dichlorobenzene	ND	0.166	ND	1.00	10/17/12	KCA	TO15
1,2-Dichloroethane	ND	0.247	ND	1.00	10/17/12	KCA	TO15
1,2-dichloropropane	ND	0.216	ND	1.00	10/17/12	KCA	TO15
1,2-Dichlorotetrafluoroethane	0.85	0.143	5.94	1.00	10/17/12	KCA	TO15
1,3,5-Trimethylbenzene	4.06	0.204	19.9	1.00	10/17/12	KCA	TO15
1,3-Butadiene	ND	0.452	ND	1.00	10/17/12	KCA	TO15
1,3-Dichlorobenzene	ND	0.166	ND	1.00	10/17/12	KCA	TO15
1,4-Dichlorobenzene	ND	0.166	ND	1.00	10/17/12	KCA	TO15
1,4-Dioxane	ND	0.278	ND	1.00	10/17/12	KCA	TO15
2-Hexanone(MBK)	ND	0.244	ND	1.00	10/17/12	KCA	TO15 1
4-Ethyltoluene	4.49	0.204	22.0	1.00	10/17/12	KCA	TO15 1
4-Isopropyltoluene	0.33	0.182	1.81	1.00	10/17/12	KCA	TO15 1
4-Methyl-2-pentanone(MIBK)	1.57	0.244	6.43	1.00	10/17/12	KCA	TO15
Acetone	255	0.421	605	1.00	10/17/12	KCA	TO15
Acrylonitrile	ND	0.461	ND	1.00	10/17/12	KCA	TO15
Benzene	15.1	0.313	48.2	1.00	10/17/12	KCA	TO15
Benzyl chloride	ND	0.193	ND	1.00	10/17/12	KCA	TO15
Bromodichloromethane	ND	0.149	ND	1.00	10/17/12	KCA	TO15

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Bromoform	ND	0.097	ND	1.00	10/17/12	KCA	TO15
Bromomethane	ND	0.258	ND	1.00	10/17/12	KCA	TO15
Carbon Disulfide	2.91	0.321	9.06	1.00	10/17/12	KCA	TO15
Carbon Tetrachloride	0.06	0.040	0.377	0.25	10/17/12	KCA	TO15
Chlorobenzene	ND	0.217	ND	1.00	10/17/12	KCA	TO15
Chloroethane	ND	0.379	ND	1.00	10/17/12	KCA	TO15
Chloroform	158	0.205	771	1.00	10/17/12	KCA	TO15
Chloromethane	ND	0.484	ND	1.00	10/17/12	KCA	TO15
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	10/17/12	KCA	TO15
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	10/17/12	KCA	TO15
Cyclohexane	4.11	0.291	14.1	1.00	10/17/12	KCA	TO15
Dibromochloromethane	ND	0.117	ND	1.00	10/17/12	KCA	TO15
Dichlorodifluoromethane	1.39	0.202	6.87	1.00	10/17/12	KCA	TO15
Ethanol	44.8	0.531	84.4	1.00	10/17/12	KCA	TO15
Ethyl acetate	ND	0.278	ND	1.00	10/17/12	KCA	TO15
Ethylbenzene	18.9	0.230	82.0	1.00	10/17/12	KCA	TO15
Heptane	19.2	0.244	78.6	1.00	10/17/12	KCA	TO15
Hexachlorobutadiene	ND	0.094	ND	1.00	10/17/12	KCA	TO15
Hexane	31.4	0.284	111	1.00	10/17/12	KCA	TO15
Isopropylalcohol	ND	0.407	ND	1.00	10/17/12	KCA	TO15
Isopropylbenzene	1.02	0.204	5.01	1.00	10/17/12	KCA	TO15
m,p-Xylene	60	0.230	260	1.00	10/17/12	KCA	TO15
Methyl Ethyl Ketone	ND	0.339	ND	1.00	10/17/12	KCA	TO15
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	10/17/12	KCA	TO15
Methylene Chloride	0.78	0.288	2.71	1.00	10/17/12	KCA	TO15
n-Butylbenzene	0.66	0.182	3.62	1.00	10/17/12	KCA	TO15
o-Xylene	19.2	0.230	83.3	1.00	10/17/12	KCA	TO15
Propylene	ND	0.581	ND	1.00	10/17/12	KCA	TO15
sec-Butylbenzene	ND	0.182	ND	1.00	10/17/12	KCA	TO15
Styrene	ND	0.235	ND	1.00	10/17/12	KCA	TO15
Tetrachloroethene	15.4	0.037	104	0.25	10/17/12	KCA	TO15
Tetrahydrofuran	1.67	0.339	4.92	1.00	10/17/12	KCA	TO15
Toluene	110	0.266	414	1.00	10/17/12	KCA	TO15
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	10/17/12	KCA	TO15
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	10/17/12	KCA	TO15
Trichloroethene	0.35	0.047	1.88	0.25	10/17/12	KCA	TO15
Trichlorofluoromethane	4.59	0.178	25.8	1.00	10/17/12	KCA	TO15
Trichlorotrifluoroethane	ND	0.130	ND	1.00	10/17/12	KCA	TO15
Vinyl Chloride	ND	0.098	ND	0.25	10/17/12	KCA	TO15
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	106	%	106	%	10/17/12	KCA	TO15

Project ID: 491 EAST 165TH ST.
Client ID: SV-3

Phoenix I.D.: BC83715

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

October 22, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report
 October 22, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: AIR
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date Time
 10/15/12 18:43
 10/16/12 15:33

Laboratory Data

SDG ID: GBC83715
 Phoenix ID: BC83716

Project ID: 491 EAST 165TH ST.
 Client ID: SV-2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	10/17/12	KCA	TO15
1,1,1-Trichloroethane	ND	0.183	ND	1.00	10/17/12	KCA	TO15
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	10/17/12	KCA	TO15
1,1,2-Trichloroethane	ND	0.183	ND	1.00	10/17/12	KCA	TO15
1,1-Dichloroethane	ND	0.247	ND	1.00	10/17/12	KCA	TO15
1,1-Dichloroethene	ND	0.252	ND	1.00	10/17/12	KCA	TO15
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	10/17/12	KCA	TO15
1,2,4-Trimethylbenzene	14.7	0.204	72.2	1.00	10/17/12	KCA	TO15
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	10/17/12	KCA	TO15
1,2-Dichlorobenzene	ND	0.166	ND	1.00	10/17/12	KCA	TO15
1,2-Dichloroethane	ND	0.247	ND	1.00	10/17/12	KCA	TO15
1,2-dichloropropane	ND	0.216	ND	1.00	10/17/12	KCA	TO15
1,2-Dichlorotetrafluoroethane	2.09	0.143	14.6	1.00	10/17/12	KCA	TO15
1,3,5-Trimethylbenzene	4.25	0.204	20.9	1.00	10/17/12	KCA	TO15
1,3-Butadiene	ND	0.452	ND	1.00	10/17/12	KCA	TO15
1,3-Dichlorobenzene	ND	0.166	ND	1.00	10/17/12	KCA	TO15
1,4-Dichlorobenzene	ND	0.166	ND	1.00	10/17/12	KCA	TO15
1,4-Dioxane	ND	0.278	ND	1.00	10/17/12	KCA	TO15
2-Hexanone(MBK)	ND	0.244	ND	1.00	10/17/12	KCA	TO15
4-Ethyltoluene	6.2	0.204	30.4	1.00	10/17/12	KCA	TO15
4-Isopropyltoluene	0.32	0.182	1.76	1.00	10/17/12	KCA	TO15
4-Methyl-2-pentanone(MIBK)	19	0.244	77.8	1.00	10/17/12	KCA	TO15
Acetone	380	0.421	902	1.00	10/17/12	KCA	TO15
Acrylonitrile	ND	0.461	ND	1.00	10/17/12	KCA	TO15
Benzene	10.5	0.313	33.5	1.00	10/17/12	KCA	TO15
Benzyl chloride	ND	0.193	ND	1.00	10/17/12	KCA	TO15
Bromodichloromethane	ND	0.149	ND	1.00	10/17/12	KCA	TO15

Client ID: SV-2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Bromoform	ND	0.097	ND	1.00	10/17/12	KCA	TO15
Bromomethane	ND	0.258	ND	1.00	10/17/12	KCA	TO15
Carbon Disulfide	3.77	0.321	11.7	1.00	10/17/12	KCA	TO15
Carbon Tetrachloride	ND	0.040	ND	0.25	10/17/12	KCA	TO15
Chlorobenzene	ND	0.217	ND	1.00	10/17/12	KCA	TO15
Chloroethane	ND	0.379	ND	1.00	10/17/12	KCA	TO15
Chloroform	1	0.205	4.88	1.00	10/17/12	KCA	TO15
Chloromethane	ND	0.484	ND	1.00	10/17/12	KCA	TO15
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	10/17/12	KCA	TO15
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	10/17/12	KCA	TO15
Cyclohexane	3.08	0.291	10.6	1.00	10/17/12	KCA	TO15
Dibromochloromethane	ND	0.117	ND	1.00	10/17/12	KCA	TO15
Dichlorodifluoromethane	1.27	0.202	6.28	1.00	10/17/12	KCA	TO15
Ethanol	38.6	0.531	72.7	1.00	10/17/12	KCA	TO15
Ethyl acetate	ND	0.278	ND	1.00	10/17/12	KCA	TO15
Ethylbenzene	17.8	0.230	77.2	1.00	10/17/12	KCA	TO15
Heptane	15.3	0.244	62.7	1.00	10/17/12	KCA	TO15
Hexachlorobutadiene	ND	0.094	ND	1.00	10/17/12	KCA	TO15
Hexane	20.5	0.284	72.2	1.00	10/17/12	KCA	TO15
Isopropylalcohol	ND	0.407	ND	1.00	10/17/12	KCA	TO15
Isopropylbenzene	1.03	0.204	5.06	1.00	10/17/12	KCA	TO15
m,p-Xylene	56	0.230	243	1.00	10/17/12	KCA	TO15
Methyl Ethyl Ketone	18.2	0.339	53.6	1.00	10/17/12	KCA	TO15
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	10/17/12	KCA	TO15
Methylene Chloride	2.17	0.288	7.53	1.00	10/17/12	KCA	TO15
n-Butylbenzene	0.74	0.182	4.06	1.00	10/17/12	KCA	TO15
o-Xylene	18.6	0.230	80.7	1.00	10/17/12	KCA	TO15
Propylene	ND	0.581	ND	1.00	10/17/12	KCA	TO15
sec-Butylbenzene	ND	0.182	ND	1.00	10/17/12	KCA	TO15
Styrene	ND	0.235	ND	1.00	10/17/12	KCA	TO15
Tetrachloroethene	14.7	0.037	99.6	0.25	10/17/12	KCA	TO15
Tetrahydrofuran	5.69	0.339	16.8	1.00	10/17/12	KCA	TO15
Toluene	96.1	0.266	362	1.00	10/17/12	KCA	TO15
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	10/17/12	KCA	TO15
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	10/17/12	KCA	TO15
Trichloroethene	0.07	0.047	0.376	0.25	10/17/12	KCA	TO15
Trichlorofluoromethane	1.4	0.178	7.86	1.00	10/17/12	KCA	TO15
Trichlorotrifluoroethane	ND	0.130	ND	1.00	10/17/12	KCA	TO15
Vinyl Chloride	ND	0.098	ND	0.25	10/17/12	KCA	TO15
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	105	%	105	%	10/17/12	KCA	TO15

Project ID: 491 EAST 165TH ST.
Client ID: SV-2

Phoenix I.D.: BC83716

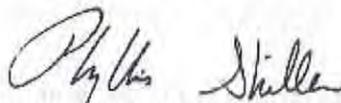
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

October 22, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 22, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: AIR
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date Time
 10/15/12 18:40
 10/16/12 15:33

Laboratory Data

SDG ID: GBC83715
 Phoenix ID: BC83717

Project ID: 491 EAST 165TH ST.
 Client ID: SV-4

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	10/18/12	KCA	TO15
1,1,1-Trichloroethane	ND	0.183	ND	1.00	10/18/12	KCA	TO15
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	10/18/12	KCA	TO15
1,1,2-Trichloroethane	ND	0.183	ND	1.00	10/18/12	KCA	TO15
1,1-Dichloroethane	ND	0.247	ND	1.00	10/18/12	KCA	TO15
1,1-Dichloroethene	ND	0.252	ND	1.00	10/18/12	KCA	TO15
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	10/18/12	KCA	TO15
1,2,4-Trimethylbenzene	12.5	0.204	61.4	1.00	10/18/12	KCA	TO15
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	10/18/12	KCA	TO15
1,2-Dichlorobenzene	ND	0.166	ND	1.00	10/18/12	KCA	TO15
1,2-Dichloroethane	ND	0.247	ND	1.00	10/18/12	KCA	TO15
1,2-dichloropropane	ND	0.216	ND	1.00	10/18/12	KCA	TO15
1,2-Dichlorotetrafluoroethane	1.75	0.143	12.2	1.00	10/18/12	KCA	TO15
1,3,5-Trimethylbenzene	3.7	0.204	18.2	1.00	10/18/12	KCA	TO15
1,3-Butadiene	ND	0.452	ND	1.00	10/18/12	KCA	TO15
1,3-Dichlorobenzene	ND	0.166	ND	1.00	10/18/12	KCA	TO15
1,4-Dichlorobenzene	ND	0.166	ND	1.00	10/18/12	KCA	TO15
1,4-Dioxane	ND	0.278	ND	1.00	10/18/12	KCA	TO15
2-Hexanone(MBK)	ND	0.244	ND	1.00	10/18/12	KCA	TO15
4-Ethyltoluene	3.8	0.204	18.7	1.00	10/18/12	KCA	TO15
4-Isopropyltoluene	0.29	0.182	1.59	1.00	10/18/12	KCA	TO15
4-Methyl-2-pentanone(MIBK)	1.57	0.244	6.43	1.00	10/18/12	KCA	TO15
Acetone	294	0.421	698	1.00	10/18/12	KCA	TO15
Acrylonitrile	ND	0.461	ND	1.00	10/18/12	KCA	TO15
Benzene	15.5	0.313	49.5	1.00	10/18/12	KCA	TO15
Benzyl chloride	ND	0.193	ND	1.00	10/18/12	KCA	TO15
Bromodichloromethane	ND	0.149	ND	1.00	10/18/12	KCA	TO15

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Bromoform	ND	0.097	ND	1.00	10/18/12	KCA	TO15
Bromomethane	ND	0.258	ND	1.00	10/18/12	KCA	TO15
Carbon Disulfide	4.18	0.321	13.0	1.00	10/18/12	KCA	TO15
Carbon Tetrachloride	ND	0.040	ND	0.25	10/18/12	KCA	TO15
Chlorobenzene	ND	0.217	ND	1.00	10/18/12	KCA	TO15
Chloroethane	ND	0.379	ND	1.00	10/18/12	KCA	TO15
Chloroform	72.6	0.205	354	1.00	10/18/12	KCA	TO15
Chloromethane	ND	0.484	ND	1.00	10/18/12	KCA	TO15
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	10/18/12	KCA	TO15
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	10/18/12	KCA	TO15
Cyclohexane	4.13	0.291	14.2	1.00	10/18/12	KCA	TO15
Dibromochloromethane	ND	0.117	ND	1.00	10/18/12	KCA	TO15
Dichlorodifluoromethane	1.95	0.202	9.64	1.00	10/18/12	KCA	TO15
Ethanol	29.8	0.531	56.1	1.00	10/18/12	KCA	TO15
Ethyl acetate	ND	0.278	ND	1.00	10/18/12	KCA	TO15
Ethylbenzene	17.2	0.230	74.6	1.00	10/18/12	KCA	TO15
Heptane	19.7	0.244	80.7	1.00	10/18/12	KCA	TO15
Hexachlorobutadiene	ND	0.094	ND	1.00	10/18/12	KCA	TO15
Hexane	33	0.284	116	1.00	10/18/12	KCA	TO15
Isopropylalcohol	ND	0.407	ND	1.00	10/18/12	KCA	TO15
Isopropylbenzene	0.96	0.204	4.72	1.00	10/18/12	KCA	TO15
m,p-Xylene	52.9	0.230	230	1.00	10/18/12	KCA	TO15
Methyl Ethyl Ketone	ND	0.339	ND	1.00	10/18/12	KCA	TO15
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	10/18/12	KCA	TO15
Methylene Chloride	1.07	0.288	3.71	1.00	10/18/12	KCA	TO15
n-Butylbenzene	0.49	0.182	2.69	1.00	10/18/12	KCA	TO15
o-Xylene	17	0.230	73.8	1.00	10/18/12	KCA	TO15
Propylene	ND	0.581	ND	1.00	10/18/12	KCA	TO15
sec-Butylbenzene	ND	0.182	ND	1.00	10/18/12	KCA	TO15
Styrene	ND	0.235	ND	1.00	10/18/12	KCA	TO15
Tetrachloroethene	16.9	0.037	114	0.25	10/18/12	KCA	TO15
Tetrahydrofuran	1.54	0.339	4.54	1.00	10/18/12	KCA	TO15
Toluene	106	0.266	399	1.00	10/18/12	KCA	TO15
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	10/18/12	KCA	TO15
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	10/18/12	KCA	TO15
Trichloroethene	0.26	0.047	1.40	0.25	10/18/12	KCA	TO15
Trichlorofluoromethane	7.68	0.178	43.1	1.00	10/18/12	KCA	TO15
Trichlorotrifluoroethane	ND	0.130	ND	1.00	10/18/12	KCA	TO15
Vinyl Chloride	ND	0.098	ND	0.25	10/18/12	KCA	TO15
QA/QC Surrogates							
% Bromofluorobenzene	104	%	104	%	10/18/12	KCA	TO15

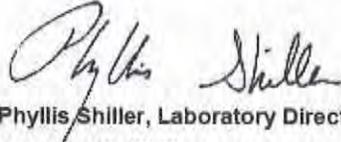
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

October 22, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 22, 2012

FOR: Attn: Ms. Antoinette Ollivierre
 American Env. Assessment & Solutions Inc
 679 Lafayette Ave.
 3rd Floor
 Brooklyn, NY 11216

Sample Information

Matrix: AIR
 Location Code: AEAS-INC
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date Time
 10/15/12 18:41
 10/16/12 15:33

Laboratory Data

SDG ID: GBC83715
 Phoenix ID: BC83718

Project ID: 491 EAST 165TH ST.
 Client ID: SV-1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	10/18/12	KCA	TO15 1
1,1,1-Trichloroethane	0.23	0.183	1.25	1.00	10/18/12	KCA	TO15
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	10/18/12	KCA	TO15
1,1,2-Trichloroethane	ND	0.183	ND	1.00	10/18/12	KCA	TO15
1,1-Dichloroethane	ND	0.247	ND	1.00	10/18/12	KCA	TO15
1,1-Dichloroethene	ND	0.252	ND	1.00	10/18/12	KCA	TO15
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	10/18/12	KCA	TO15
1,2,4-Trimethylbenzene	16.6	0.204	81.6	1.00	10/18/12	KCA	TO15
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	10/18/12	KCA	TO15
1,2-Dichlorobenzene	ND	0.166	ND	1.00	10/18/12	KCA	TO15
1,2-Dichloroethane	ND	0.247	ND	1.00	10/18/12	KCA	TO15
1,2-dichloropropane	ND	0.216	ND	1.00	10/18/12	KCA	TO15
1,2-Dichlorotetrafluoroethane	3.41	0.143	23.8	1.00	10/18/12	KCA	TO15
1,3,5-Trimethylbenzene	4.44	0.204	21.8	1.00	10/18/12	KCA	TO15
1,3-Butadiene	ND	0.452	ND	1.00	10/18/12	KCA	TO15
1,3-Dichlorobenzene	ND	0.166	ND	1.00	10/18/12	KCA	TO15
1,4-Dichlorobenzene	ND	0.166	ND	1.00	10/18/12	KCA	TO15
1,4-Dioxane	ND	0.278	ND	1.00	10/18/12	KCA	TO15
2-Hexanone(MBK)	ND	0.244	ND	1.00	10/18/12	KCA	TO15 1
4-Ethyltoluene	4.99	0.204	24.5	1.00	10/18/12	KCA	TO15 1
4-Isopropyltoluene	0.37	0.182	2.03	1.00	10/18/12	KCA	TO15 1
4-Methyl-2-pentanone(MIBK)	2.18	0.244	8.92	1.00	10/18/12	KCA	TO15
Acetone	252	0.421	598	1.00	10/18/12	KCA	TO15
Acrylonitrile	ND	0.461	ND	1.00	10/18/12	KCA	TO15
Benzene	10.6	0.313	33.8	1.00	10/18/12	KCA	TO15
Benzyl chloride	ND	0.193	ND	1.00	10/18/12	KCA	TO15
Bromodichloromethane	ND	0.149	ND	1.00	10/18/12	KCA	TO15

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Bromoform	ND	0.097	ND	1.00	10/18/12	KCA	TO15
Bromomethane	ND	0.258	ND	1.00	10/18/12	KCA	TO15
Carbon Disulfide	1.85	0.321	5.76	1.00	10/18/12	KCA	TO15
Carbon Tetrachloride	ND	0.040	ND	0.25	10/18/12	KCA	TO15
Chlorobenzene	ND	0.217	ND	1.00	10/18/12	KCA	TO15
Chloroethane	ND	0.379	ND	1.00	10/18/12	KCA	TO15
Chloroform	2.27	0.205	11.1	1.00	10/18/12	KCA	TO15
Chloromethane	ND	0.484	ND	1.00	10/18/12	KCA	TO15
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	10/18/12	KCA	TO15
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	10/18/12	KCA	TO15
Cyclohexane	2.6	0.291	8.94	1.00	10/18/12	KCA	TO15
Dibromochloromethane	ND	0.117	ND	1.00	10/18/12	KCA	TO15
Dichlorodifluoromethane	2.7	0.202	13.3	1.00	10/18/12	KCA	TO15
Ethanol	22.2	0.531	41.8	1.00	10/18/12	KCA	TO15
Ethyl acetate	ND	0.278	ND	1.00	10/18/12	KCA	TO15
Ethylbenzene	18	0.230	78.1	1.00	10/18/12	KCA	TO15
Heptane	12.6	0.244	51.6	1.00	10/18/12	KCA	TO15
Hexachlorobutadiene	ND	0.094	ND	1.00	10/18/12	KCA	TO15
Hexane	20.5	0.284	72.2	1.00	10/18/12	KCA	TO15
Isopropylalcohol	ND	0.407	ND	1.00	10/18/12	KCA	TO15
Isopropylbenzene	1.02	0.204	5.01	1.00	10/18/12	KCA	TO15
m,p-Xylene	55.9	0.230	242	1.00	10/18/12	KCA	TO15
Methyl Ethyl Ketone	5.07	0.339	14.9	1.00	10/18/12	KCA	TO15
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	10/18/12	KCA	TO15
Methylene Chloride	0.48	0.288	1.67	1.00	10/18/12	KCA	TO15
n-Butylbenzene	1.03	0.182	5.65	1.00	10/18/12	KCA	TO15
o-Xylene	19.1	0.230	82.9	1.00	10/18/12	KCA	TO15
Propylene	ND	0.581	ND	1.00	10/18/12	KCA	TO15
sec-Butylbenzene	0.2	0.182	1.10	1.00	10/18/12	KCA	TO15
Styrene	0.24	0.235	1.02	1.00	10/18/12	KCA	TO15
Tetrachloroethene	15.2	0.037	103	0.25	10/18/12	KCA	TO15
Tetrahydrofuran	1.65	0.339	4.86	1.00	10/18/12	KCA	TO15
Toluene	163	0.266	614	1.00	10/18/12	KCA	TO15
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	10/18/12	KCA	TO15
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	10/18/12	KCA	TO15
Trichloroethene	0.79	0.047	4.24	0.25	10/18/12	KCA	TO15
Trichlorofluoromethane	6.41	0.178	36.0	1.00	10/18/12	KCA	TO15
Trichlorotrifluoroethane	ND	0.130	ND	1.00	10/18/12	KCA	TO15
Vinyl Chloride	ND	0.098	ND	0.25	10/18/12	KCA	TO15
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	105	%	105	%	10/18/12	KCA	TO15

Project ID: 491 EAST 165TH ST.
Client ID: SV-1

Phoenix I.D.: BC83718

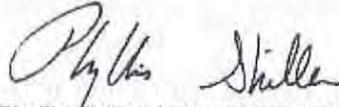
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

October 22, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report
 October 22, 2012

QA/QC Data

SDG I.D.: GBC83715

Parameter	Blank ppbv	Blank ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 211889, QC Sample No: BC83715 (BC83715, BC83716, BC83717, BC83718)										
Volatiles										
1,1,1,2-Tetrachloroethane	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
1,1,1-Trichloroethane	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
1,1,2-Trichloroethane	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethane	ND	ND	115	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethene	ND	ND	112	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trichlorobenzene	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trimethylbenzene	ND	ND	102	68.8	65.3	14	13.3	5.1	70 - 130	20
1,2-Dibromoethane(EDB)	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorobenzene	ND	ND	85	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichloroethane	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
1,2-dichloropropane	ND	ND	113	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorotetrafluoroethane	ND	ND	96	5.94	5.73	0.85	0.82	3.6	70 - 130	20
1,3,5-Trimethylbenzene	ND	ND	98	19.9	19.5	4.06	3.97	2.2	70 - 130	20
1,3-Butadiene	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
1,3-Dichlorobenzene	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dichlorobenzene	ND	ND	90	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dioxane	ND	ND	95	ND	ND	ND	ND	NC	70 - 130	20
2-Hexanone(MBK)	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
4-Ethyltoluene	ND	ND	100	22.0	21.5	4.49	4.37	2.7	70 - 130	20
4-Isopropyltoluene	ND	ND	112	1.81	1.76	0.33	0.32	3.1	70 - 130	20
4-Methyl-2-pentanone(MIBK)	ND	ND	112	6.43	6.02	1.57	1.47	6.6	70 - 130	20
Acetone	ND	ND	105	491	453	207	191	8.0	70 - 130	20
Acrylonitrile	ND	ND	112	ND	ND	ND	ND	NC	70 - 130	20
Benzene	ND	ND	95	48.2	46.3	15.1	14.5	4.1	70 - 130	20
Benzyl chloride	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
Bromodichloromethane	ND	ND	116	ND	ND	ND	ND	NC	70 - 130	20
Bromoform	ND	ND	118	ND	ND	ND	ND	NC	70 - 130	20
Bromomethane	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
Carbon Disulfide	ND	ND	127	9.06	8.31	2.91	2.67	8.6	70 - 130	20
Carbon Tetrachloride	ND	ND	96	0.377	0.314	0.06	0.05	18.2	70 - 130	20
Chlorobenzene	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
Chloroethane	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
Chloroform	ND	ND	104	654	605	134	124	7.8	70 - 130	20
Chloromethane	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
Cis-1,2-Dichloroethene	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
cis-1,3-Dichloropropene	ND	ND	110	ND	ND	ND	ND	NC	70 - 130	20
Cyclohexane	ND	ND	100	14.1	13.8	4.11	4.02	2.2	70 - 130	20
Dibromochloromethane	ND	ND	114	ND	ND	ND	ND	NC	70 - 130	20
Dichlorodifluoromethane	ND	ND	103	6.87	6.52	1.39	1.32	5.2	70 - 130	20
Ethanol	ND	ND	76	80.8	73.1	42.9	38.8	10.0	70 - 130	20

QA/QC Data

SDG I.D.: GBC83715

Parameter	Blank ppbv	Blank ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	ND	111	ND	ND	ND	ND	NC	70 - 130	20
Ethylbenzene	ND	ND	100	82.0	79.8	18.9	18.4	2.7	70 - 130	20
Heptane	ND	ND	127	78.6	73.3	19.2	17.9	7.0	70 - 130	20
Hexachlorobutadiene	ND	ND	99	ND	ND	ND	ND	NC	70 - 130	20
Hexane	ND	ND	105	111	106	31.4	30.1	4.2	70 - 130	20
Isopropylalcohol	ND	ND	80	ND	ND	ND	ND	NC	70 - 130	20
Isopropylbenzene	ND	ND	104	5.01	5.01	1.02	1.02	0.0	70 - 130	20
m,p-Xylene	ND	ND	107	260	247	60	57	5.1	70 - 130	20
Methyl Ethyl Ketone	ND	ND	99	ND	ND	ND	ND	NC	70 - 130	20
Methyl tert-butyl ether(MTBE)	ND	ND	112	ND	ND	ND	ND	NC	70 - 130	20
Methylene Chloride	ND	ND	115	2.71	4.89	0.78	1.41	57.5	70 - 130	20
n-Butylbenzene	ND	ND	110	3.62	3.35	0.66	0.61	7.9	70 - 130	20
o-Xylene	ND	ND	105	83.3	80.3	19.2	18.5	3.7	70 - 130	20
Propylene	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
sec-Butylbenzene	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
Styrene	ND	ND	99	ND	ND	ND	ND	NC	70 - 130	20
Tetrachloroethene	ND	ND	101	104	99.0	15.4	14.6	5.3	70 - 130	20
Tetrahydrofuran	ND	ND	100	4.92	4.77	1.67	1.62	3.0	70 - 130	20
Toluene	ND	ND	106	376	312	99.8	82.9	18.5	70 - 130	20
Trans-1,2-Dichloroethene	ND	ND	123	ND	ND	ND	ND	NC	70 - 130	20
trans-1,3-Dichloropropene	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
Trichloroethene	ND	ND	103	1.88	1.82	0.35	0.34	2.9	70 - 130	20
Trichlorofluoromethane	ND	ND	109	25.8	23.4	4.59	4.17	9.6	70 - 130	20
Trichlorotrifluoroethane	ND	ND	115	ND	ND	ND	ND	NC	70 - 130	20
Vinyl Chloride	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
% Bromofluorobenzene	102	102	100	106	103	106	103	2.9	70 - 130	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

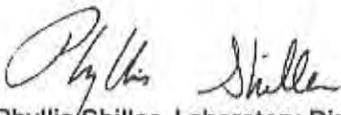
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference


 Phyllis Shiller, Laboratory Director
 October 22, 2012

Sample Criteria Exceedences Report

GBC83715 - AEAS-INC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



501 East Middle Turnpike, P.O. Box 370, Middletown, CT 06440
 Telephone: 860-845-1102 • Fax: 860-845-0823

CHAIN OF CUSTODY RECORD
AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. # _____ Page _____ of _____

Data Delivery: 718-209-0653-Fx /

10 Fax: info@phoenixlabs.com

10 Email: 718-906-4070 - Fax

Report to: Antoinette
 Customer: AEAS, Inc
 Address: 1079 Lafayette Ave. 3rd Fl
 Brooklyn, NY 11216

Invoice to: Antoinette
 679 Lafayette Ave 3rd Fl
 Brooklyn, NY 11216
 Sampled by: Antoinette

Project Name: 491 East 16.5th Street
 Criteria Requested: Deliverable: RCP
 MCP

State where samples collected:

Phoenix ID #	Client Sample ID	THIS SECTION FOR LAB USE ONLY										MATRIX					
		Canister ID #	Canister Size (L)	Outgoing Canister Pressure (Psi)	Incoming Canister Pressure (Psi)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (Psi)	Canister Pressure at End (Psi)	Ambient/Indoor Air	Soil Gas	Grab (C) Composite (C)	TO-14	TO-15
83715	SV-3	220	6L	30	30	4497	40	4:03	6:44	10/15/12	30	0				X	
83716	SV-2	480	6L	30	30	5350	40	4:07	6:43	10/15/12	30	1				X	
83717	SV-4	457	6L	30	30	3114	40	4:06	6:40	10/15/12	29	0				X	
83718	SV-1	156	6L	30	30	4957	40	4:08	6:41	10/15/12	30	0				X	
61	2hr																

Relinquished by: Antoinette
 Accepted by: [Signature]
 Date: 10-16-12 11:00
 10-16-12 15:33

Data Format: Excel PDF
 Equis GISKey
 Other:

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.

Quote Number: _____

Signature: _____

Date: _____