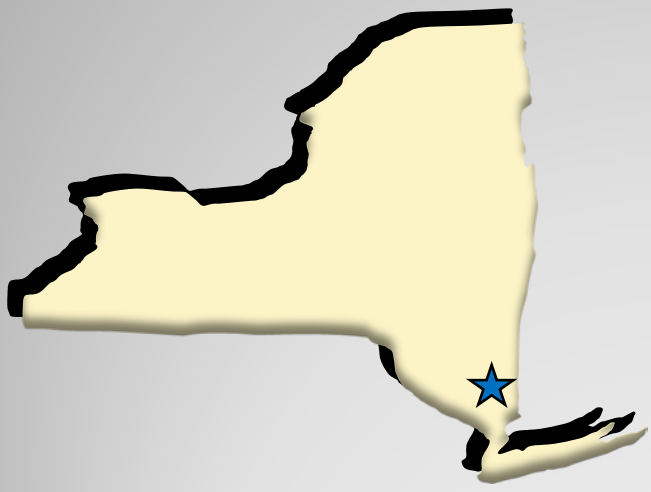
FINAL BASIS OF DESIGN REPORT

Empire Electric Site (2-24-015)
Kings County, Brooklyn, New York



Prepared for:

New York State Department of Environmental Conservation
Division of Environmental Remediation

Prepared by:

EA ENGINEERING, P.C. and Its Affiliate
EA SCIENCE and TECHNOLOGY

July 2009

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LIST OF ACRONYMS

ACM	Asbestos Containing Materials
EA	EA Engineering, P.C. and its affiliate EA Science and Technology
ERM	Environmental Resource Management
IRM	Interim Remedial Measure
NYSDEC	New York State Department of Environmental Conservation
PCB	Polychlorinated Biphenyl
ppm	Parts per million
PSA	Preliminary Site Assessment
RI	Remedial Investigation
TSCA	Toxic Substances Control Act
USEPA	United States Environmental Protection Agency

1. INTRODUCTION

The Empire Electric site is currently under the Remedial Investigation (RI) phase. In order to complete the RI, the decision was made to remove the structure as an Interim Remedial Measure (IRM) to facilitate access to site soil and groundwater. To complete this activity , the New York State Department of Environmental Conservation (NYSDEC) tasked EA Engineering, P.C., and its affiliate, EA Science and Technology (EA) to prepare Contract Documents for IRM, including oversight of the IRM, at the former Empire Electric site in Brooklyn, Kings County, New York (Figure 1). Prior to design of the IRM, an additional pre-design investigation was performed to evaluate existing on-site conditions and further characterize the building material for disposal.

Following completion of the pre-design investigation and this Basis of Design Report, EA will prepare the Contract Documents for IRM implementation at the Empire Electric site, participate in the contractor bidding process, and oversee the implementation of the IRM at the site.

This Basis of Design Report evaluates current conditions at the site and provides the design assumptions to be utilized for implementation of this work assignment. The report is organized as follows:

- **Section 1**—Introduction.
- **Section 2**—Site Description and History. This section provides a brief description of the site, its operational history, and the IRM selected for the site.
- **Section 3**—Pre-IRM Characterization. This section presents the results of the additional site investigation activities conducted at the site.
- **Section 4**—Design Assumptions. This section presents a current understanding of the nature and extent of contamination within the structure, the design assumptions to be used for preparation of design specifications, design drawings, the site management plan, and regulatory requirements for the IRM.

2. SITE DESCRIPTION AND HISTORY

The following sections outline a brief description of the site, its operational history, previous investigations, and the IRM selected for the site to facilitate completion of the RI.

2.1 SITE DESCRIPTION

The Empire Electric Company site is located at 5200 1st Avenue in Brooklyn, New York and contains a dilapidated, vacant, red brick building. The area is primarily industrial in nature, with a potato chip manufacturing plant (Utz), a New York City Department of Sanitation vehicle maintenance and storage building, an overnight courier (DHL), the former BUG - Kings County Works manufactured gas plant site, and the waterfront (Bush Terminal docks) in the general vicinity. The site consists of a 100 ft × 240 ft parcel (Section 1, Block 803, Lot 9) that is located on the southwest corner of 1st Avenue and 52nd Street. The property contains a red brick building that covers the entire lot.

2.2 SITE HISTORY

The building was constructed in 1892 by the Brooklyn City Railroad Company for use as a power plant for the municipally owned trolley system. The building was used for electrical generation until the 1930s when the trolley system was abandoned. The facility was conveyed to the city of New York in 1940. In 1951, the property was sold to Hastone Realty Corporation who subdivided the parcel into two lots (Lot 9 and Lot 6). On 5 September 1951, Lot 9 was sold to Ben Hasnas. The Hasnas family operated Empire Electric on Lot 9, the eastern two-thirds of the building, from 1951 to December 1986 when the property was sold to 5200 Enterprises. Significant polychlorinated biphenyl (PCB) contamination of Lot 9 was identified at the time of the building sale in 1986 and a cleanup was conducted by ENSI, Inc. However, PCBs at elevated levels were still present in post clean-up samples as documented by the cleanup contractor, ENSI, Inc., in their 12 December 1986 report.

2.3 PREVIOUS INVESTIGATIONS

On 28 February 1989, the NYSDEC listed the site as a Class 2 site on the New York State Registry of Inactive Hazardous Waste Sites (The Registry). In 1993, NYSDEC collected and analyzed four shallow soil samples from outside the building along 52nd Street for PCBs. The data indicated the presence of PCBs above the NYSDEC surface soil cleanup guidelines (i.e., greater than 1 part per million [ppm]). In 1999, Lawler, Matusky, & Skelly Engineers LLP conducted a Preliminary Site Assessment (PSA) of the site on behalf of the NYSDEC to determine if the building was still contaminated and whether other media (i.e., soil and groundwater) had also been contaminated by site activities; the PSA results were summarized in the Lawler, Matusky, & Skelly Engineers LLP PSA Report[1] (Appendix A). This assessment

1. Lawler, Matusky, & Skelly Engineers LLP. 1999. Preliminary Site Assessment Report Volumes I and II, Empire Electric Company, Site No. 2-24-015. December.

showed that concrete chip samples contained PCBs at concentrations up to 260,000 ppm and soil samples collected from beneath the building contained PCBs at concentrations up to 960 ppm. Additionally, PCBs were detected in groundwater collected from a downgradient monitoring well installed near the site (71 micrograms per liter [µg/L])[1].

Historical investigations at the site have documented the presence of widespread PCB impacts throughout the structure. NYSDEC retained Environmental Resources Management (ERM) to complete a RI/Feasibility Study at the site in March 2004 (Appendix B). ERM completed a draft limited RI in February 2007 that included soil borings in and around the structure, groundwater sampling, sub-slab vapor and indoor air sampling, a structural analysis and report, debris removal and disposal, and a PCB immunoassay building material survey with confirmational sampling. ERM's draft RI and Building Characterization Report concluded that groundwater at the site had not been fully characterized and that there was poor correlation between the immunoassay survey and the confirmational laboratory analytical results.

Subsequent to the draft RI, NYSDEC has concluded that building demolition is required to complete the RI at the site. Demolition and off-site disposal of the building structure and foundation will be completed as an IRM. This Basis of Design Report presents supplemental investigation data used to further characterize building materials for disposal and will be followed by a full design for bid.

3. PRE-IRM CHARACTERIZATION

EA performed the following pre-IRM design investigation activities from December 2008 to April 2009 to evaluate existing on-site conditions and further delineate the extent of contamination to support IRM design:

- Building material sampling
- Data correlation of EA and ERM analytical data
- Building measurement and quantity estimate.

Activities were completed as described in the IRM Building Investigation Activities[2] and the IRM Additional Building Characterization[3], unless otherwise specified. Sampling locations are presented as Figures 2 through 6. A summary of sample analytical data collected is presented as Table 1. The information collected during these activities has been used to characterize building materials and to prepare disposal quantity estimates. As per the Toxic Substances Control Act (TSCA) Regulation 40 CFR 761.60, building materials having PCB concentrations > 50 ppm must be disposed of in a TSCA incinerator, TSCA chemical waste landfill, or by an United States Environmental Protection Agency (USEPA)-approved alternative method.

3.1 BUILDING MATERIAL SAMPLING

Thirty-four (34) non-aqueous building material samples were collected by EA in December 2008 and were determined to not correlate with immuno-assay sampling results obtained by ERM in April of 2006, as discussed in Section 3.2. In April 2009 EA collected an additional 132 non-aqueous building material samples. A total of 166 non-aqueous building material samples were collected by EA in December 2008 and April 2009 to assist in the completion of the IRM design evaluation and final engineering cost estimate for demolition of the structure and disposal of the Empire Electric building materials.

Building material samples included concrete material from structure floors from all building levels, brick material from the interior and exterior walls, and brick material from the large structural support pillars in the basement. Sample locations are shown on Figures 2 through 6. Table 1 includes a summary of the analytical data. The electronic data deliverable for the building material samples is presented in Appendix C. Daily Field Reports, including photographs from the building material sampling activities, are included as Appendix D.

The collected building material samples were analyzed for PCBs via USEPA method 8082. Sample analysis was performed by Chemtech Consulting Group of Mountainside, New Jersey, a New York State Department of Health certified-Environmental Laboratory Approval Program

2. EA Engineering, P.C., and Its Affiliate EA Science and Technology. 2009. Pre-Interim Remedial Measure Building Investigation Activities (2-24-015), Brooklyn, New York. December.
3. EA Engineering, P.C., and Its Affiliate EA Science and Technology. 2009. Pre-Interim Remedial Measure Additional Building Characterization (2-24-015), Brooklyn, New York. March.

laboratory and in accordance with the NYSDEC Analytical Service Protocols of June 2000, Category B deliverables.

The building material samples were collected using the following procedures:

- A 10-in. diameter area surrounding the sample location was cleaned using methanol and steel wool.
- All sampling event participants wore appropriate personal protective equipment at all times (gloves, safety glasses, half-face respirators with HEPA filters, etc.)
- A masonry bit was decontaminated prior to each sample collection.
- An electric hammer drill with the decontaminated ¾-in diameter masonry bit was used to drill to the designated sample depth (1 in.) several times within the designated sample area.
- A new pair of disposable gloves was used for each sample collection
- For wall and pillar samples, a dust pan lined with dedicated aluminum foil was used to collect dust generated from drilling into the wall. The dust was then poured into the appropriate sample jar from the aluminum foil-lined dustpan.
- For floor samples, a dedicated natural bristle brush was used to sweep the dust generated from drilling onto the floor into a dust pan lined with dedicated tinfoil. The dust was then poured into the appropriate sample jar from the tinfoil-lined dustpan.
- All samples were labeled, handled, and packaged following the procedures described in EA's Generic Quality Assurance Project Plan, submitted to the NYSDEC on 20 June 2006 and revised in October 2006.
- Quality assurance/quality control samples were collected at the frequency detailed in the Generic Quality Assurance Project Plan submitted with the Building Characterization Work Plan.

All non-dedicated equipment and tools used to collect samples for chemical analysis were decontaminated prior to and between each sample interval using an Alconox wash and potable water rinse. Decontamination fluids were collected and stored in drums onsite. Site security issues during the site characterization activities prevented all decontamination fluids from being disposed of properly. Vandals gained access to the site and dumped some of the drums' contents into the basement. Materials that were not vandalized were disposed of by a regulated hauler.

In addition to building material samples, three samples were collected of grease/oil material found within the building. One sample (EA-BFL-164) included a soil and grease/oil mixture

from one of ERM's old soil boring holes in the basement slab (ERM SB-05). Two samples of a tar-like grease/oil material coating a majority of the basement pillars were collected. A black substance was collected in EA-BWL-162L and a yellow substance was collected in EA-BWL-163L. Analytical data are included in Table 1. Daily Field Reports in Appendix D contain photographs of the sample locations.

3.2 DATA CORRELATION OF EA AND ERM ANALYTICAL DATA

As described in a 27 January 2009 memorandum to the NYSDEC (Appendix E) EA's December 2008 data were compared to building material sample data previously collected by ERM in April of 2006. ERM collected 295 building material samples. These samples were screened using immuno-assay procedures. ERM collected confirmatory samples at 61 of these sample locations which were analyzed using USEPA method 8082. Regression analysis performed between USEPA method 8082 results and the immuno-assay results indicated that there was no correlation between the data. Therefore, it was determined that data from the immuno-assay screening obtained by ERM did not correlate to either ERM or EA data obtained using USEPA method 8082 and will not be used for characterization or design purposes. However, regression analyses did indicate that the 61 confirmatory samples collected by ERM and analyzed using USEPA method 8082 correlate with data obtained by EA and could be used for design purposes.

3.3 BUILDING MEASUREMENT AND QUANTITY ESTIMATE

Concurrent with the December 2008 building material sampling event, detailed building measurements were taken for the purpose of estimating building material disposal quantities and preparing an engineering cost estimate. The Empire Electric building is comprised of a main floor, 1st mezzanine, 2nd mezzanine, and basement levels. The structure is constructed primarily of three materials that will require offsite disposal. These include, but are not limited to, brick and masonry, concrete floor slab, and structural steel box girders and I-beams.

The main floor of the building is divided into two areas (Figure 2). The westernmost portion of the main floor is an approximate 100 ft × 80 ft area which is divided into rooms by masonry walls. The remaining eastern portion of the main floor is an approximate 100 ft × 160 ft open floor area with 17 steel box girder columns of various sizes extending through the 1st floor slab. These columns are founded in the basement and support the 2nd mezzanine level.

The 2nd mezzanine level consists of one 180 ft × 34 ft rectangular section extending over the center of the large, main floor area (Figure 3). The 2nd mezzanine is a robust structure constructed of heavy steel box girder beams overlain with a 1-ft thick concrete slab. The 1st mezzanine level consists of two 30 ft × 35 ft rectangular landings on either side of the western end of the 2nd mezzanine. These landings lead to a single 100 ft × 60 ft area at the far western end of the building (Figure 4).

The basement level is divided into two areas similar to the main floor (Figure 5). One area occupying the eastern portion of the building consists of an approximate 100 ft × 160 ft long area

reduced in workable area by 16 (two rows of eight) brick columns, each 35 ft × 9 ft that extend up to the ceiling. These columns support the main floor slab and may potentially extend below the concrete slab. The western portion of the basement consists of an approximate 100-ft × 80-ft long area divided into rooms by masonry walls

The roof of the structure is constructed of steel truss members overlain with softwood (e.g., pine or spruce) facing. It is unclear whether shingles (slate or asphaltic) are currently present.

To accurately estimate material quantities, the thickness, length, and height of all exterior and interior walls were measured, as were the thickness and areal dimensions of the concrete floor slabs throughout the structure. The approximate steel tonnage was calculated by measuring the cross-sectional area of each distinct member and multiplying by the total cumulative length of that member.

It is estimated that there is approximately 11,800 tons of brick masonry, of which 6,800 tons is made up of the basement pillar material. The remaining 5,000 tons is comprised of interior and exterior walls. There are approximately 5,200 tons of concrete slab, 7,900 tons of sub-slab soils (4-ft thick), and 1,000 tons of potentially recoverable steel for recycling. An analysis of material requiring TSCA and non-TSCA disposal is presented in the following sections and summarized in the table below.

TSCA AND NON-TSCA DISPOSAL ESTIMATES				
UPPER LEVELS				
	Total Tons	**%TSCA**	**TSCA Tons**	**non-TSCA Tons**
Brick Masonry above Main Floor Slab	4,600	0%	0	4,600
Mainfloor Concrete Slab	2,200	60%	1,320	880
1st Mezzanine Concrete Slab	600	0%	0	600
2nd Mezzanine Concrete Slab	600	25%	150	450
TOTAL	*8,000*	*18%*	*1,470*	*6,530*
BASEMENT				
Brick Masonry dividing walls	400	100%	400	0
Brick Masonry Pillars	6,800	100%	6,800	0
Concrete Slab	1,800	100%	1,800	0
Sub-Slab soils	7,900	100%	7,900	0
TOTAL	*16,900*	*100%*	*16,900*	*0*
GRAND TOTALS	***24,900***	***74%***	***18,370***	***6,530***
Reclaimable Steel	1,000			
General Construction Debris	100			

TOTAL ACM/PACM DISPOSAL ESTIMATES[4]	
ACM/PACM	**Approximate Amount (ft^2)**
9"x 9" Green Floor Tile	453
Fire Door Insulation	21
Roof Membrane/Shingle	8,640
Transite Board Electrical Box	38

4. ERM. 2007. Limited Remedial Investigation and Building Characterization Report. February.

4. DESIGN ASSUMPTIONS

4.1 NATURE AND EXTENT OF CONTAMINATION

Results of the building material sample analysis indicate that PCB concentrations in excess of 50 ppm, the TSCA definition of PCB hazardous waste are present in 35 percent of the analyzed samples. Fifty-two of the 165 building material samples collected and analyzed using USEPA Method 8082 contained levels of PCB contamination ranging from 51 ppm to 33,000 ppm. Refer to Table 1 and Figures 2 through 5 for a data summary and sample location plans.

Sample results indicate that as much as 60 percent of the main floor concrete slab may be impacted with PCBs at concentrations above 50 ppm. PCB concentrations ranged from 3.10 ppm to 3,300 ppm, with the highest concentrations detected within the former repair and assembly area at the western end of the building (Figure 2). However, no interior or exterior brick masonry wall samples above the main floor slab elevation tested above 50 ppm. The 2nd mezzanine sample results ranged from 0.030 ppm to 170 ppm. Four concrete slab samples were above the 50 ppm TSCA definition of PCB hazardous waste, ranging from 60 ppm to 179 ppm (Figure 3). There were no samples above 50 ppm detected on the 1st mezzanine level (Figure 4).

Building material samples collected from the basement floor slab ranged from to 2.0 ppm to 7,900 ppm. Twenty-nine of the 85 basement samples indicate PCB concentrations above 50 ppm. There was a single interior wall sample above 50 ppm (140 ppm) at the western end of the basement (Figure 5). Analytical results of the brick pillar samples showed PCB concentrations above 50 ppm in only 2 out of 35 samples. However, two grease/oil samples (one yellow, one black) collected from a representative pillar surface directly below the former PCB transformer storage were determined to have PCB concentrations of 11,000 ppm and 26,000 ppm, respectively. Basement brick pillar samples were taken in specific locations where these substances were not present on the brick surface in order to determine contamination of the brick beyond surficial contact with the above described grease/oil samples. The grease/oil material was found on nearly 70 percent of pillar surfaces. Areas where the grease/oil was observed to be present are considered to have corresponding PCB concentrations to the sampled grease/oil (Figure 6).

Sixty percent of the concrete slab in the main floor area and 80 percent of the concrete floor slab in the basement area are classed as hazardous according to the TSCA definition of hazardous waste for total PCBs. The grease/oil samples collected in the basement exceeded the TSCA criteria of 50 ppm total PCBs and is present on nearly 70 percent of brick pillar surfaces.

As discussed in Section 2.3, soil samples collected by the NYSDEC in 1993 and during the PSA beneath the basement floor exceeded the NYSDEC recommended soil clean-up objective for PCBs in soil at depths less than 2 ft of 1 ppm, as well as the criteria for soils at depths greater than 2 ft of 10 ppm. Two of these soil samples also exceeded the TSCA definition of hazardous waste.

An asbestos containing materials (ACM) survey conducted in October 2006 concluded that approximately 9,152 ft^2 of floor tile, door insulation, roof shingles, and transite board electric box are present on-site and are potential ACM. The ACM survey is documented in the Testing Mechanics "Report of Asbestos Containing Materials Inspection" dated 17 October 2006 (refer to Appendix B). Also, in October 2006, a lead based paint survey indicated that there are lead based materials present in the building (Appendix B).

4.2 SPECIFICATIONS

Specifications included in the IRM Contract Documents are likely to include, but are not limited to, the following:

- **Waste Management and Recycling.** Waste management goals include, but are not limited to, maximize non-TSCA and recyclable project waste by weight and volume, effect optimum management of solid wastes via a materials management hierarchy, and to prevent environmental pollution and damage. All waste items, including solid hazardous and non-hazardous wastes removed from the site, concrete, masonry, steel, etc. will be disposed of properly at appropriate disposal and/or recycling facilities. The Contract Documents will require bidders to submit a Waste Management and Recycling Plan as a component of their Bid Package.

- **Dewatering.** In the event that groundwater is encountered within the proposed excavated sub-slab soils, dewatering will be required. As presented in previous and the additional remedial investigations, groundwater at the site contains several analytes in excess of NYSDEC Ambient Water Quality Standards. The demolition Contractor will be required to prepare a detailed dewatering plan as part of the IRM activities.

- **Building Demolition.** This section will include, but will not be limited to, requirements for the following: Contractor Demolition Plan (sequencing); sub-slab soil excavation; Waste Management and Recycling Plan submittal; protection of the common wall with the adjoining building; protection of streets, sidewalks, neighboring buildings, and railroad spur; protection of air quality and proper removal of demolished materials including sampling, testing, and characterization of all waste materials.

- **Electrical Demolition.** Remaining electrical equipment, wiring and conduit must be decommissioned, removed, relocated, or disposed of in accordance with State and local regulations.

- **Asbestos Abatement.** This section will include removal and disposal of friable and non-friable ACM in conjunction with other site work.

- **Health and Safety.** The Contract Documents will require the Contractor to prepare a Site Specific Health and Safety Plan (HASP). During building demolition and soil excavation activities, an ambient air-monitoring program would be implemented to

measure the concentration of particulates and volatile organic compounds in ambient air in the work zone and at the perimeter of the site. Real-time volatile organic compound concentrations in ambient air would be measured using a photoionization detector equipped instrument. Real time PCB concentrations in ambient air would be estimated using particulate concentrations correlated to PCB concentrations. A Community Air Monitoring Plan that specifies the components of this program would be developed by the Contractor in accordance with the New York State Department of Health Generic Community Air Monitoring Plan contained in Appendix 1A of the Draft DER-10[5].

- **Site Restoration.** Certified clean-fill material will be utilized to fill the excavation area and building footprint to surrounding grade elevations. Crushed aggregate or recycled concrete materials will be utilized as a surface cover upon the top of the fill materials. All fill materials will be sufficiently compacted as per design specifications within the limits of the excavation. Steel bollards and a vehicle access gate will be placed on the site perimeter to limit vehicular access to the site.

4.3 DRAWINGS

Drawings prepared for the design are likely to include, but not be limited to, the following:

- Existing conditions site plan
- Building floor plan and sample results
- Final conditions
- Details.

4.4 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS, PERMITS, CODES, AND STANDARDS

4.4.1 Applicable or Relevant and Appropriate Requirements

Applicable or Relevant and Appropriate Requirements were developed and evaluated with regard to the interim remedial measure. The remedial measure will incorporate the appropriate engineering and monitoring controls to ensure compliance with Applicable or Relevant and Appropriate Requirements.

4.4.2 Codes and Standards

Codes and Standards will be followed. Based on the type of work performed, codes and standards that may apply include, but are not limited to the following:

- National Electrical Code (temporary power).

5. NYSDEC. 2002. Draft DER-10 Appendix 1A.

- American Society of Testing and Materials (testing and sampling methods).
- U.S. Environmental Protection Agency Standards (analytical methods).
- U.S. Environmental Protection Agency Asbestos Demolition & Renovation Compliance Monitoring Standards for compliance with National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR 61.140 through 61.157.
- The Comprehensive Environmental Response, Compensation, and Liability Act (hazardous waste remediation).
- Resource Conservation and Recovery Act (post-closure).
- Toxic Substances Control Act.
- The Code of Federal Regulations 40 CFR (hazardous material storage, transportation, and disposal)
- The Code of Federal Regulations, 40 CFR 761 – PCBs Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions.
- Occupational Safety and Health Administration standards, 29 CFR Part 1910.
- Hazardous Waste Operations and Emergency Response, 29 CFR Part 1910.120.
- Safety and Health Regulations for Construction, 29 CFR Part 1926.
- New York State Department of Environmental Conservation, Division of Environmental Remediation, Draft DER-10 Technical Guidance for Site Investigation and Remediation, December 2002.
- New York Codes Rules and Regulations, 6 NYCRR, Part 360 – Solid Waste Management Facilities.
- New York State Industrial Safety and Health Act standards.
- New York City Administrative Code, Title 24, Chapter 1 and stringent of the: Rules of the City of New York, Title 15, Chapter 1, or New York State Industrial Code, Rule 56 (for asbestos containing materials management during demolition or renovation of buildings).
- New York City Administrative Code Title 24, Chapter 2 and Rules of the City of New York Title 15, Chapter 6,7; and 28, 29, 30 (for noise pollution control).

- New York City Administrative Code, Title 24, Chapter 7 and Rules of the City of New York, Title 15, Chapter 41 (for hazardous materials and spills).

- New York City Construction Code, including New York City Building Code – Chapter 33 (Safeguards during Construction and Demolition).

- New York City Air Pollution Control Code.

4.4.3 Permitting Plan/ Permits

The remedial action contractors will be required to obtain any work permits needed, including building or electric permits at the municipal level. However, since this is a State Superfund site with non-jurisdictional building, it may not be subject to all the permit requirements. The substantive requirements of all permits typically required will be met; however, a permit issued by the governing agency will not be necessary to begin or complete the work. Substantive requirements of the following permits are anticipated to be met during design and construction of the remedy:

- General construction and electric permits, including all relevant permits from the New York City Department of Buildings and compliance with their Guides and Publications on Demolition Safety: (http://www.nyc.gov/html/dob/html/guides/demolition_safety.shtml)

- Sidewalk opening permits.

- Asbestos abatement permit from New York State Department of Labor.

- New York City Department of Environmental Protection registration for noise pollution control prior to demolition activities.

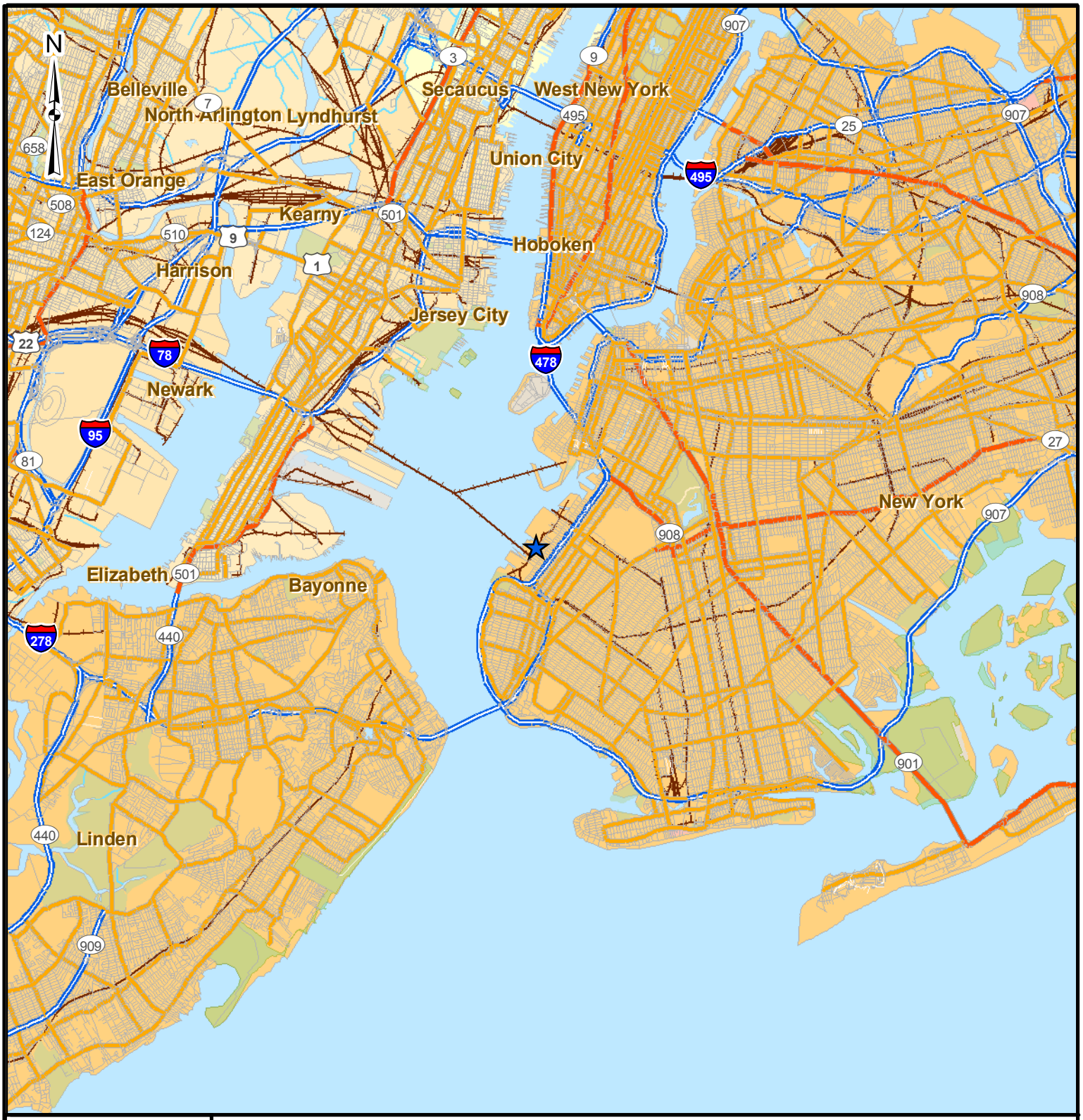
- State Pollutant Discharge Elimination System for stormwater management and discharge

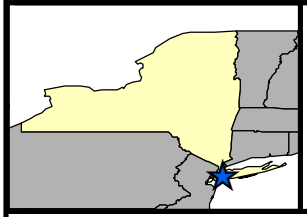
- Solid and hazardous waste management and transport permits

- Waste transporter permits

- Air pollution control permits.

Because intrusive work will not be performed within 100 ft of a state-listed freshwater wetland, a NYSDEC Freshwater Wetlands Permit will not be required for this action.





Legend

★ Site Location

Miles

0 0.5 1 2 3 4

Source: NYSGIS Clearinghouse

EMPIRE ELECTRIC
WORK ASSIGNMENT
BROOKLYN, NEW YORK

FIGURE 1
SITE LOCATION MAP

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
DFC	RSC	MJS	SEF	AS SHOWN	JULY 2009	14474.26	GIS/PROJECTS/ FIGURE1.MXD

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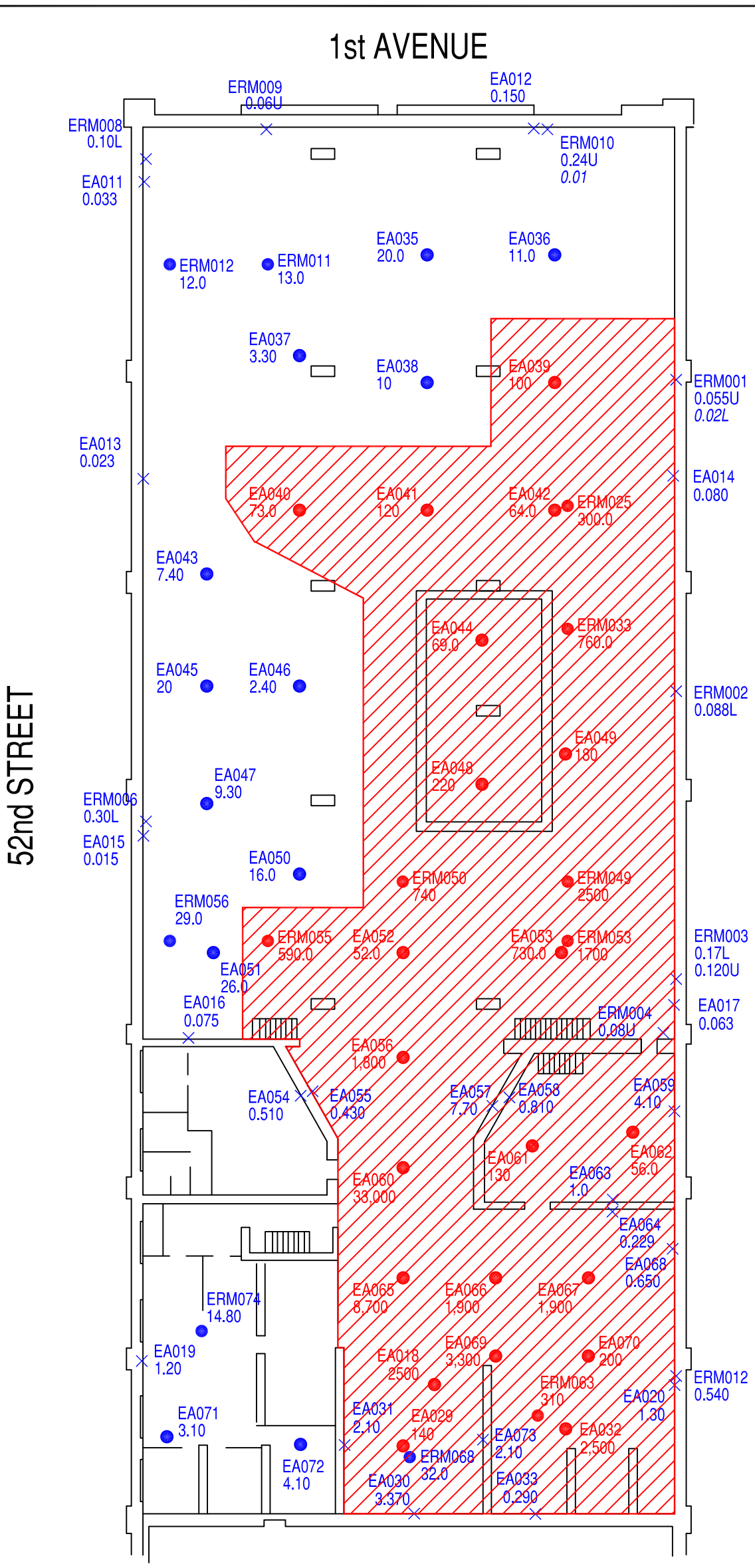

NOTES

WALL ID: EA-1WL-LXXX (SAMPLE DESIGNATION NUMBER)
FLOOR ID: EA-1FL-XXX (SAMPLE DESIGNATION NUMBER)

L: LOWER WALL SAMPLE (0 - 4 1/2 FOOT WALL HEIGHT)

U: UPPER WALL SAMPLE (GREATER THAN 15 FOOT WALL HEIGHT) PCB: POLYCHLORINATED BIPHENYL

ppm: PARTS PER MILLION

EA: EA SCIENCE AND TECHNOLOGY, INC. (12/08 & 4/09)

ERM: ERM REMEDIATION AND CONSTRUCTION MANAGEMENT (4/06)

WALL AND FLOOR SAMPLING LOCATIONS DESIGNATED BY NUMBER ONLY ON MAPS FOR SPACE PURPOSES.

20 10 0 20
GRAPHIC SCALE IN FEET

LEGEND

EA003	EA SAMPLE NUMBER
ERM003	ERM SAMPLE NUMBER
×	WALL SAMPLE
●	FLOOR SAMPLE
●	TSCA > 50 ppm (RED)
●	NON-TSCA < 50 ppm (BLUE)
0.17	PCB CONCENTRATION
0.02	PCB CONCENTRATION AT 1/4" DEPTH
	ESTIMATED FLOOR SLAB > 50 ppm
	OPEN SPACE ABOVE MAIN FLOOR

PREPARED BY:
EA ENGINEERING, P.C. AND ITS AFFILIATE EA SCIENCE AND TECHNOLOGY

EMPIRE ELECTRIC COMPANY
NYSDEC Site #2-24-015
Brooklyn, NY

PRE-INTERIM REMEDIAL MEASURE
BASIS OF DESIGN REPORT
MAIN FLOOR SAMPLE LOCATION PLAN

PROJECT MGR.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE	SCALE	PROJECT NO.	FILE NAME	DRAWING NO.	FIGURE
DFC	SEF	SEF	RSC	JULY 2009	as shown	1447426.0002	EMPIRE_BC.DWG		2 OF 6

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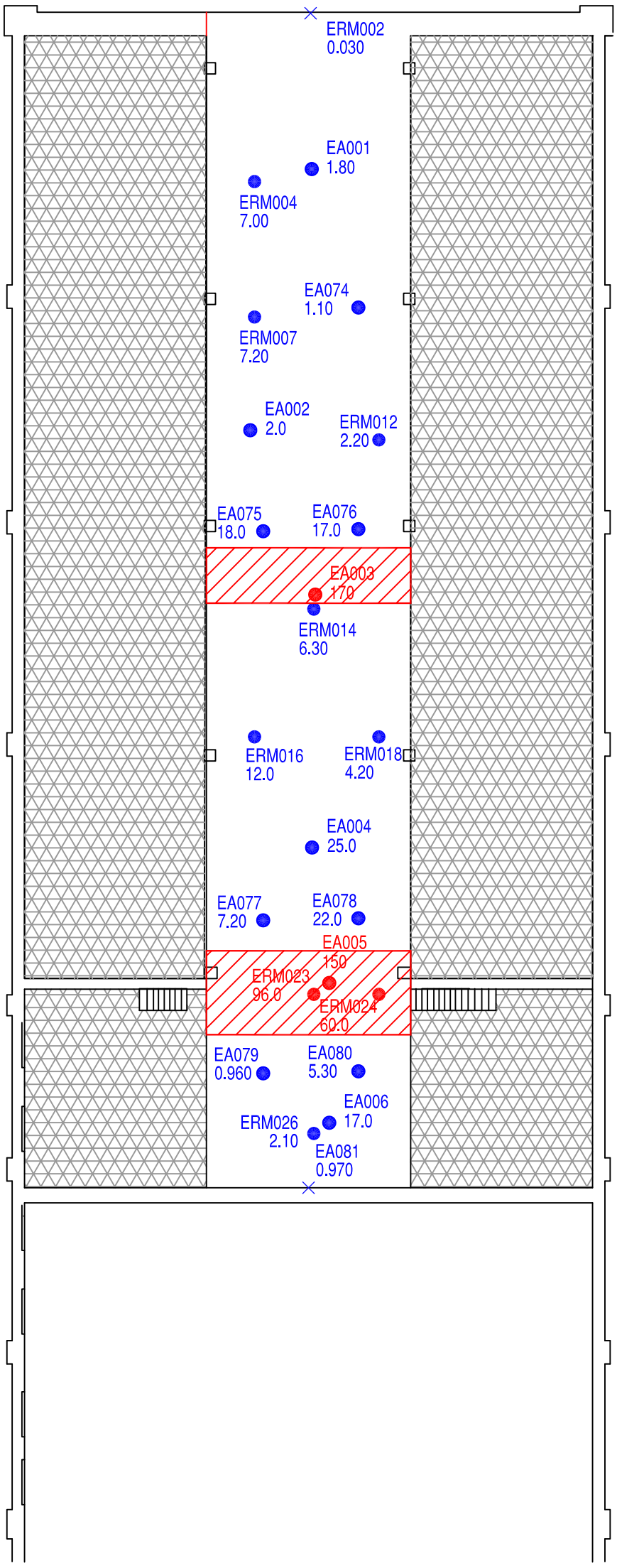

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L: LOWER WALL SAMPLE (0 - 4 1/2 FOOT WALL HEIGHT)

U: UPPER WALL SAMPLE (GREATER THAN 15 FOOT WALL HEIGHT) PCB: POLYCHLORINATED BIPHENYL

ppm: PARTS PER MILLION

EA: EA SCIENCE AND TECHNOLOGY, INC. (12/08 & 4/09)

ERM: ERM REMEDIATION AND CONSTRUCTION MANAGEMENT (4/06)

WALL AND FLOOR SAMPLING LOCATIONS DESIGNATED BY NUMBER ONLY ON MAPS FOR SPACE PURPOSES.

20 10 0 20

GRAPHIC SCALE IN FEET

LEGEND

EA003	EA SAMPLE NUMBER
ERM003	ERM SAMPLE NUMBER
×	WALL SAMPLE
●	FLOOR SAMPLE
●	TSCA > 50 ppm (RED)
●	NON-TSCA < 50 ppm (BLUE)
0.17	PCB CONCENTRATION
0.02	PCB CONCENTRATION AT 1/4" DEPTH
	ESTIMATED FLOOR SLAB > 50 ppm
	OPEN SPACE ABOVE MAIN FLOOR

PREPARED BY:
EA ENGINEERING, P.C. AND ITS AFFILIATE EA SCIENCE AND TECHNOLOGY

EMPIRE ELECTRIC COMPANY
NYSDEC Site #2-24-015
Brooklyn, NY

PRE-INTERIM REMEDIAL MEASURE
BASIS OF DESIGN REPORT
2ND MEZZANINE SAMPLE LOCATION PLAN

PROJECT MGR.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE	SCALE	PROJECT NO.	FILE NAME	DRAWING NO.	FIGURE
DFC	SEF	SEF	RSC	JULY 2009	as shown	1447426.0002	EMPIRE_BC.DWG		3 OF 6

DRAWING NAME: G:\Projects\State&Local\NYSDEC\D004441 – Des_Const\1447426 – Empire Electric\CAD\Empire_BC.dwg
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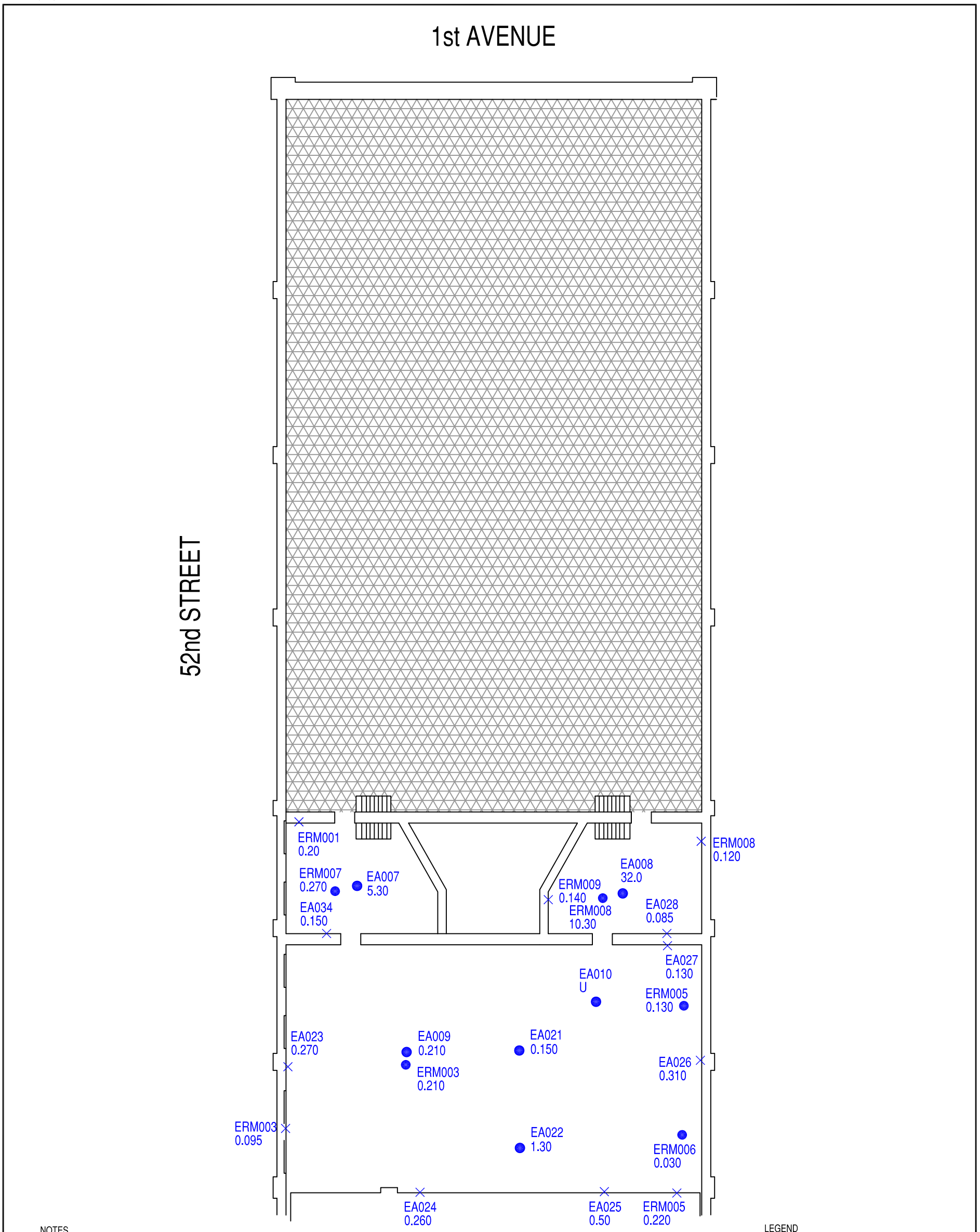

NOTES

WALL ID: EA-1WL-LXXX (SAMPLE DESIGNATION NUMBER)

FLOOR ID: EA-1FL-XXX (SAMPLE DESIGNATION NUMBER)

L: LOWER WALL SAMPLE (0 - 4 1/2 FOOT WALL HEIGHT)

U: UPPER WALL SAMPLE (GREATER THAN 15 FOOT WALL HEIGHT) PCB:

POLYCHLORINATED BIPHENYL

ppm: PARTS PER MILLION

EA: EA SCIENCE AND TECHNOLOGY, INC. (12/08 & 4/09)

ERM: ERM REMEDIATION AND CONSTRUCTION MANAGEMENT (4/06)

WALL AND FLOOR SAMPLING LOCATIONS DESIGNATED BY NUMBER ONLY ON MAPS FOR SPACE PURPOSES.

LEGEND

EA003	EA SAMPLE NUMBER
ERM003	ERM SAMPLE NUMBER
×	WALL SAMPLE
●	FLOOR SAMPLE
●	TSCA > 50 ppm (RED)
●	NON-TSCA < 50 ppm (BLUE)
0.17	PCB CONCENTRATION
0.02	PCB CONCENTRATION AT 1/4" DEPTH
	ESTIMATED FLOOR SLAB > 50 ppm
	OPEN SPACE ABOVE MAIN FLOOR

PREPARED BY:
EA ENGINEERING, P.C. AND ITS AFFILIATE EA SCIENCE AND TECHNOLOGY

EMPIRE ELECTRIC COMPANY
NYSDEC Site #2-24-015
Brooklyn, NY

PRE-INTERIM REMEDIAL MEASURE
BASIS OF DESIGN REPORT
1ST MEZZANINE SAMPLE LOCATION PLAN

PROJECT MGR.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE	SCALE	PROJECT NO.	FILE NAME	DRAWING NO.	FIGURE
DFC	SEF	SEF	RSC	JULY 2009	as shown	1447426.0002	EMPIRE_BC.DWG		4 OF 6

DRAWING NAME: G:\Projects\State&Local\NYSDEC\D004441 – Des_Const\1447426 – Empire Electric\CAD\Empire_BC.dwg
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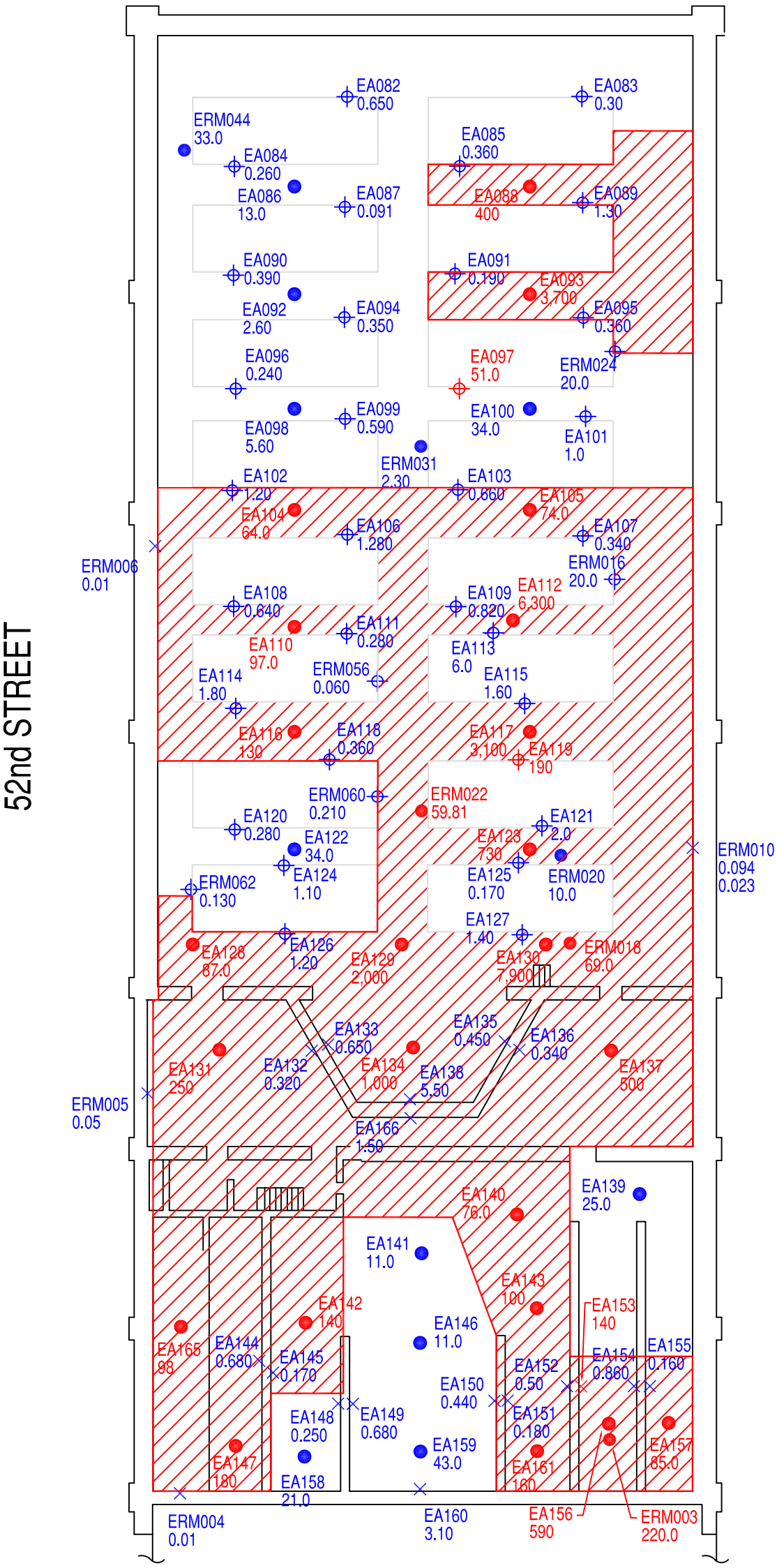

NOTES

WALL ID: EA-1WL-LXXX — SAMPLE DESIGNATION NUMBER

FLOOR ID: EA-1FL-XXX — SAMPLE DESIGNATION NUMBER

L: LOWER WALL SAMPLE (0 - 4 1/2 FOOT WALL HEIGHT)

U: UPPER WALL SAMPLE (GREATER THAN 15 FOOT WALL HEIGHT) PCB: POLYCHLORINATED BIPHENYL

ppm: PARTS PER MILLION

EA: EA SCIENCE AND TECHNOLOGY, INC. (12/08 & 4/09)

ERM: ERM REMEDIATION AND CONSTRUCTION MANAGEMENT (4/06)

WALL AND FLOOR SAMPLING LOCATIONS DESIGNATED BY NUMBER ONLY ON MAPS FOR SPACE PURPOSES.

20 10 0 20

GRAPHIC SCALE IN FEET

LEGEND

EA003	EA SAMPLE NUMBER
ERM003	ERM SAMPLE NUMBER
×	WALL SAMPLE
●	FLOOR SAMPLE
●	TSCA > 50 ppm (RED)
●	NON-TSCA < 50 ppm (BLUE)
0.17	PCB CONCENTRATION
0.02	PCB CONCENTRATION AT 1/4" DEPTH
▨	ESTIMATED FLOOR SLAB > 50 ppm

PREPARED BY:
EA ENGINEERING, P.C. AND ITS AFFILIATE EA SCIENCE AND TECHNOLOGY

EMPIRE ELECTRIC COMPANY
NYSDEC Site #2-24-015
Brooklyn, NY

PRE-INTERIM REMEDIAL MEASURE
BASIS OF DESIGN REPORT
BASEMENT SAMPLE LOCATION PLAN

PROJECT MGR.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE	SCALE	PROJECT NO.	FILE NAME	DRAWING NO.	FIGURE
DFC	SEF	SEF	RSC	JULY 2009	as shown	1447426.0002	EMPIRE_BC.DWG		5 OF 6

DRAWING NAME: G:\Projects\State&Local\NYSDEC\D004441 – Des_Const\1447426 – Empire Electric\CAD\Empire_BC.dwg
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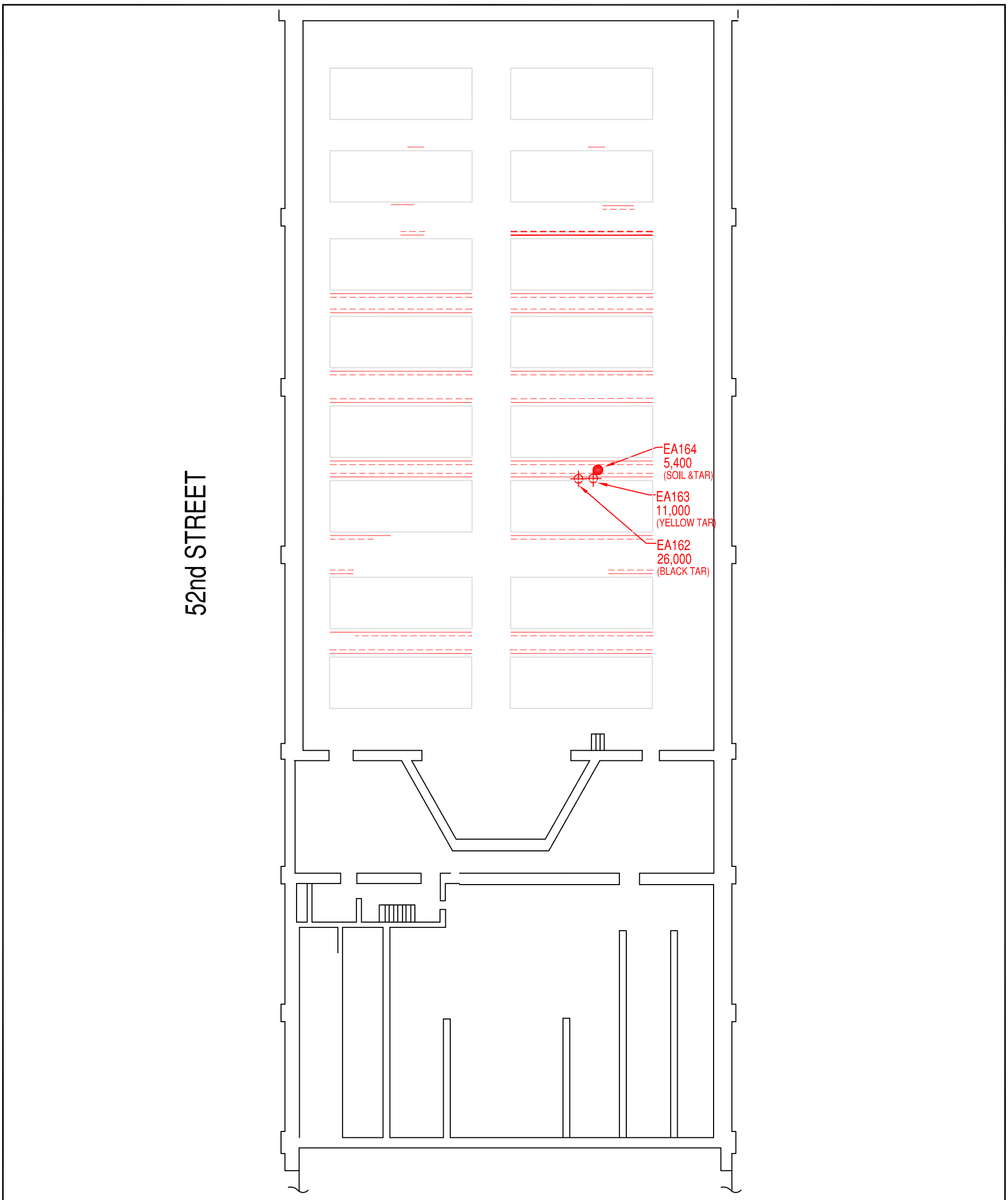

NOTES

WALL ID: EA-1WL-LXXX (SAMPLE DESIGNATION NUMBER)

FLOOR ID: EA-1FL-XXX (SAMPLE DESIGNATION NUMBER)

L: LOWER WALL SAMPLE (0 - 4 1/2 FOOT WALL HEIGHT)

U: UPPER WALL SAMPLE (GREATER THAN 15 FOOT WALL HEIGHT) PCB: POLYCHLORINATED BIPHENYL

ppm: PARTS PER MILLION

EA: EA SCIENCE AND TECHNOLOGY, INC. (12/08 & 4/09)

ERM: ERM REMEDIATION AND CONSTRUCTION MANAGEMENT (4/06)

WALL AND FLOOR SAMPLING LOCATIONS DESIGNATED BY NUMBER ONLY ON MAPS FOR SPACE PURPOSES.

LEGEND

EA003	EA SAMPLE NUMBER
ERM003	ERM SAMPLE NUMBER
×	WALL SAMPLE
●	FLOOR SAMPLE
⊕	PILLAR SAMPLE
●	TSCA > 50 ppm (RED)
●	NON-TSCA < 50 ppm (BLUE)
0.17	PCB CONCENTRATION
0.02	PCB CONCENTRATION AT 1/4" DEPTH
- - - - -	YELLOW TAR-LIKE SMEARING
———	BLACK TAR-LIKE SMEARING

20 10 0 20

GRAPHIC SCALE IN FEET

PREPARED BY:
EA ENGINEERING, P.C. AND ITS AFFILIATE EA SCIENCE AND TECHNOLOGY

EMPIRE ELECTRIC COMPANY
NYSDEC Site #2-24-015
Brooklyn, NY

PRE-INTERIM REMEDIAL MEASURE
BASIS OF DESIGN REPORT
BASEMENT PILLAR GREASE/OIL STAINING

PROJECT MGR.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE	SCALE	PROJECT NO.	FILE NAME	DRAWING NO.	FIGURE
DFC	SEF	SEF	RSC	JULY 2009	as shown	1447426.0002	EMPIRE_BC.DWG		6 OF 6

TABLE 1 SUMMARY OF POLYCHLORINATED BIPHENYLS IN BRICK AND CONCRETE SAMPLES

Parameters List via USEPA Method 8082	Sample ID	224015EA001		224015EA002		224015EA003		224015EA004		224015EA005		224015EA006		224015EA007		224015EA008		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	Z5889-01		Z5889-02		Z5889-03		Z5889-04		Z5889-05		Z5889-06		Z5889-07		Z5889-08		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	12/16/2008		12/16/2008		12/16/2008		12/16/2008		12/16/2008		12/16/2008		12/16/2008		12/16/2008		
Aroclor-1016	(mg/kg)	(<0.0040)	U	(<0.00410)	U	(<0.00420)	U	(<0.0040)	U	(<0.0040)	U	(<0.00380)	U	(<0.0040)	U	(<0.00390)	U	NA
Aroclor-1221	(mg/kg)	(<0.00490)	U	(<0.0050)	U	(<0.00510)	U	(<0.00480)	U	(<0.00490)	U	(<0.00470)	U	(<0.00490)	U	(<0.00480)	U	NA
Aroclor-1232	(mg/kg)	(<0.00510)	U	(<0.00520)	U	(<0.00540)	U	(<0.00510)	U	(<0.00520)	U	(<0.00490)	U	(<0.00510)	U	(<0.00510)	U	NA
Aroclor-1242	(mg/kg)	(<0.00230)	U	(<0.00230)	U	(<0.00240)	U	(<0.00220)	U	(<0.00230)	U	(<0.00220)	U	(<0.00220)	U	(<0.00220)	U	NA
Aroclor-1248	(mg/kg)	(<0.00490)	U	(<0.0050)	U	(<0.00520)	U	(<0.00490)	U	(<0.0050)	U	(<0.00470)	U	(<0.00490)	U	(<0.00490)	U	NA
Aroclor-1254	(mg/kg)	(<0.0050)	U	(<0.00510)	U	(<0.00530)	U	(<0.0050)	U	(<0.0050)	U	(<0.00480)	U	(<0.0050)	U	(<0.00490)	U	NA
Aroclor-1260	(mg/kg)	1.80	D	2.0	D	170	D	25.0	D	150	D	17.0	D	5.30	DP	32.0	D	NA
Aroclor (Total)	(mg/kg)	1.80	D	2.0	D	**170**	**D**	25.0	D	**150**	**D**	17.0	D	5.30	DP	32.0	D	50

Parameters List via USEPA Method 8082	Sample ID	224015EA009		224015EA010		224015EA011		224015EA012		224015EA013		224015EA014		224015EA015		224015EA016		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	Z5889-09		Z5889-10		Z5889-11		Z5889-12		Z5889-15		Z5889-16		Z5889-17		Z5889-18		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	12/16/2008		12/16/2008		12/15/2008		12/15/2008		12/15/2008		12/15/2008		12/15/2008		12/15/2008		
Aroclor-1016	(mg/kg)	(<0.0040)	U	(<0.00410)	U	(<0.00390)	U	(<0.00370)	U	(<0.00380)	U	(<0.00370)	U	(<0.00380)	U	(<0.00380)	U	NA
Aroclor-1221	(mg/kg)	(<0.00490)	U	(<0.0050)	U	(<0.00470)	U	(<0.00460)	U	(<0.00460)	U	(<0.00450)	U	(<0.00460)	U	(<0.00470)	U	NA
Aroclor-1232	(mg/kg)	(<0.00520)	U	(<0.00520)	U	(<0.00490)	U	(<0.00480)	U	(<0.00490)	U	(<0.00480)	U	(<0.00490)	U	(<0.00490)	U	NA
Aroclor-1242	(mg/kg)	(<0.00230)	U	(<0.00230)	U	(<0.00220)	U	(<0.00210)	U	(<0.00210)	U	(<0.00210)	U	(<0.00210)	U	(<0.00210)	U	NA
Aroclor-1248	(mg/kg)	(<0.0050)	U	(<0.0050)	U	(<0.00480)	U	(<0.00460)	U	(<0.00470)	U	(<0.00460)	U	(<0.00470)	U	(<0.00470)	U	NA
Aroclor-1254	(mg/kg)	(<0.0050)	U	(<0.00510)	U	(<0.00480)	U	(<0.00470)	U	(<0.00480)	U	(<0.00470)	U	(<0.00470)	U	(<0.00480)	U	NA
Aroclor-1260	(mg/kg)	0.210		(<0.0040)	U	0.0330	P	0.150		0.0230	P	0.080	P	0.0150	JP	0.0750	P	NA
Aroclor (Total)	(mg/kg)	0.210		NA		0.0330	P	0.150		0.0230	P	0.080	P	0.0150	JP	0.0750	P	50

Parameters List via USEPA Method 8082	Sample ID	224015EA017		224015EA018		224015EA019		224015EA020		224015EA021		224015EA022		224015EA023		224015EA024		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	Z5889-19		Z5889-20		Z5889-21		Z5889-22		Z5890-01		Z5890-02		Z5890-03		Z5890-04		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	12/15/2008		12/16/2008		12/16/2008		12/16/2008		12/16/2008		12/16/2008		12/16/2008		12/16/2008		
Aroclor-1016	(mg/kg)	(<0.00370)	U	(<0.00380)	U	(<0.00440)	U	(<0.00440)	U	(<0.00390)	U	(<0.0040)	U	(<0.00430)	U	(<0.00380)	U	NA
Aroclor-1221	(mg/kg)	(<0.00460)	U	(<0.00470)	U	(<0.00540)	U	(<0.00540)	U	(<0.00470)	U	(<0.00480)	U	(<0.00530)	U	(<0.00460)	U	NA
Aroclor-1232	(mg/kg)	(<0.00480)	U	(<0.00490)	U	(<0.00560)	U	(<0.00560)	U	(<0.0050)	U	(<0.00510)	U	(<0.00550)	U	(<0.00480)	U	NA
Aroclor-1242	(mg/kg)	(<0.00210)	U	(<0.00220)	U	(<0.00250)	U	(<0.00250)	U	(<0.00220)	U	(<0.00220)	U	(<0.00240)	U	(<0.00210)	U	NA
Aroclor-1248	(mg/kg)	(<0.00460)	U	(<0.00470)	U	(<0.00540)	U	(<0.00540)	U	(<0.00480)	U	(<0.00490)	U	(<0.00530)	U	(<0.00460)	U	NA
Aroclor-1254	(mg/kg)	(<0.00470)	U	(<0.00480)	U	(<0.00550)	U	(<0.00550)	U	(<0.00490)	U	(<0.0050)	U	(<0.00540)	U	(<0.00470)	U	NA
Aroclor-1260	(mg/kg)	0.0630	P	2,500	D	1.20	D	1.30	DP	0.150		1.30	D	0.270		0.260		NA
Aroclor (Total)	(mg/kg)	0.0630	P	**2,500**	**D**	1.20	D	1.30	DP	0.150		1.30	D	0.270		0.260		50

Parameters List via USEPA Method 8082	Sample ID	224015EA025		224015EA026		224015EA027		224015EA028		224015EA029		224015EA030		224015EA031		224015EA032		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	Z5890-05D		Z5890-08		Z5890-09		Z5890-10		Z5890-11DL		Z5890-12		Z5890-13		Z5890-14		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	12/16/2008		12/16/2008		12/16/2008		12/16/2008		12/17/2008		12/17/2008		12/17/2008		12/17/2008		
Aroclor-1016	(mg/kg)	(<0.00370)	U	(<0.00420)	U	(<0.00380)	U	(<0.00380)	U	(<0.00380)	U	(<0.00390)	U	(<0.00380)	U	(<0.00380)	U	NA
Aroclor-1221	(mg/kg)	(<0.00450)	U	(<0.00520)	U	(<0.00460)	U	(<0.00460)	U	(<0.00460)	U	(<0.00480)	U	(<0.00460)	U	(<0.00460)	U	NA
Aroclor-1232	(mg/kg)	(<0.00480)	U	(<0.00540)	U	(<0.00480)	U	(<0.00490)	U	(<0.00480)	U	(<0.0050)	U	(<0.00480)	U	(<0.00490)	U	NA
Aroclor-1242	(mg/kg)	(<0.00210)	U	(<0.00240)	U	(<0.00210)	U	(<0.00210)	U	(<0.00210)	U	(<0.00220)	U	(<0.00210)	U	(<0.00210)	U	NA
Aroclor-1248	(mg/kg)	(<0.00460)	U	(<0.00520)	U	(<0.00460)	U	(<0.00470)	U	(<0.00460)	U	(<0.00480)	U	(<0.00460)	U	(<0.00470)	U	NA
Aroclor-1254	(mg/kg)	(<0.00470)	U	(<0.00530)	U	(<0.00470)	U	(<0.00480)	U	(<0.00470)	U	2.40	DP	(<0.0050)	U	(<0.00480)	U	NA
Aroclor-1260	(mg/kg)	0.50	D	0.310	D	0.130		0.0850		140	D	0.970	D	2.10	D	2,500	D	NA
Aroclor (Total)	(mg/kg)	0.50	D	0.310	D	0.130		0.0850		**140**		3.370	DP	2.10	D	**2,500**	**D**	50

NOTE: USEPA = United States Environmental Protection Agency
NYCRR = New York Code of Rules and Regulations
ppm = milligrams per kilogram (mg/kg)
U = Indicates the compound was analyzed for but not detected
NA = Not Applicable.
D = Compounds were identified in an analysis at a secondary dilution factor
P = There is >25% difference for detected concentrations between the two GC columns
J = Indicates an estimated value
Bold values indicate exceedances.
All analyses were provided by Chemtech. Data Validation services were provided by Environmental Data Services.

TABLE 1 SUMMARY OF POLYCHLORINATED BIPHENYLS IN BRICK AND CONCRETE SAMPLES

Parameters List via USEPA Method 8082	Sample ID	224015EA033		224015EA034		224015-EA-MFL-035		224015-EA-MFL-036		224015-EA-MFL-037		224015-EA-MFL-038		224015-EA-MFL-039		224015-EA-MFL-040		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	Z5890-15		Z5890-18		A2360-11		A2363-07		A2360-12		A2362-06		A2360-13		A2360-16		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	12/17/2008		12/16/2008		4/15/2009		4/17/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		
Aroclor-1016	(mg/kg)	(<0.00380)	U	(<0.00390)	U	(<0.00390)	U	(<0.00390)	U	(<0.0040)	U	(<0.040)	U	(<0.00390)	U	(<0.0040)	U	NA
Aroclor-1221	(mg/kg)	(<0.00460)	U	(<0.00470)	U	(<0.00470)	U	(<0.00480)	U	(<0.00490)	U	(<0.0490)	U	(<0.00480)	U	(<0.00490)	U	NA
Aroclor-1232	(mg/kg)	(<0.00480)	U	(<0.00490)	U	(<0.0050)	U	(<0.0050)	U	(<0.00510)	U	(<0.0510)	U	(<0.0050)	U	(<0.00510)	U	NA
Aroclor-1242	(mg/kg)	(<0.00210)	U	(<0.00220)	U	(<0.00220)	U	(<0.00220)	U	(<0.00230)	U	(<0.0230)	U	(<0.00220)	U	(<0.00220)	U	NA
Aroclor-1248	(mg/kg)	(<0.00460)	U	(<0.00480)	U	(<0.00480)	U	(<0.00480)	U	(<0.00490)	U	(<0.0490)	U	(<0.00480)	U	(<0.00490)	U	NA
Aroclor-1254	(mg/kg)	(<0.00470)	U	(<0.00480)	U	(<0.00480)	U	(<0.00490)	U	(<0.0050)	U	(<0.050)	U	(<0.00490)	U	(<0.0050)	U	NA
Aroclor-1260	(mg/kg)	0.290	D	0.150		20	D	11.0	D	3.30	D	10	D	100	D	73.0	D	NA
Aroclor (Total)	(mg/kg)	0.290	D	0.150		20	D	11.0	D	3.30	D	10	D	**100**	**D**	**73.0**	D	50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-MFL-041		224015-EA-MFL-042		224015-EA-MFL-043		224015-EA-MFL-044		224015-EA-MFL-045		224015-EA-MFL-046		224015-EA-MFL-047		224015-EA-MFL-048		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2360-15		A2360-14		A2362-05		A2360-18		A2362-04		A2360-17		A2362-03		A2360-20		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		
Aroclor-1016	(mg/kg)	(<0.00390)	U	(<0.0040)	U	(<0.0390)	U	(<0.00390)	U	(<0.0390)	U	(<0.00390)	U	(<0.0390)	U	(<0.00390)	U	NA
Aroclor-1221	(mg/kg)	(<0.00480)	U	(<0.00490)	U	(<0.0480)	U	(<0.00470)	U	(<0.0480)	U	(<0.00480)	U	(<0.0470)	U	(<0.00470)	U	NA
Aroclor-1232	(mg/kg)	(<0.00510)	U	(<0.00510)	U	(<0.050)	U	(<0.0050)	U	(<0.050)	U	(<0.0050)	U	(<0.050)	U	(<0.0050)	U	NA
Aroclor-1242	(mg/kg)	(<0.00220)	U	(<0.00220)	U	(<0.0220)	U	(<0.00220)	U	(<0.0220)	U	(<0.00220)	U	(<0.0220)	U	(<0.00220)	U	NA
Aroclor-1248	(mg/kg)	(<0.00490)	U	(<0.00490)	U	(<0.0480)	U	(<0.00480)	U	(<0.0480)	U	(<0.00480)	U	(<0.0480)	U	(<0.00480)	U	NA
Aroclor-1254	(mg/kg)	(<0.00490)	U	(<0.0050)	U	(<0.0490)	U	(<0.00490)	U	(<0.0490)	U	(<0.00490)	U	(<0.0480)	U	(<0.00480)	U	NA
Aroclor-1260	(mg/kg)	120	D	64.0	D	7.40	D	69.0	D	20	D	2.40	D	9.30	D	220	D	NA
Aroclor (Total)	(mg/kg)	**120**	**D**	**64.0**	**D**	7.40	D	**69.0**	**D**	20	D	2.40	D	9.30	D	**220**	**D**	50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-MFL-049		224015-EA-MFL-050		224015-EA-MFL-051		224015-EA-MFL-052		224015-EA-MFL-053		224015-EA-MWL-054L		224015-EA-MWL-055L		224015-EA-MFL-056		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2360-19		A2362-01		A2362-02		A2362-07		A2362-08		A2361-16		A2361-14		A2361-18		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		
Aroclor-1016	(mg/kg)	(<0.00390)	U	(<0.040)	U	(<0.0380)	U	(<0.0390)	U	(<0.0390)	U	(<0.0420)	U	(<0.00430)	U	(<0.0040)	U	NA
Aroclor-1221	(mg/kg)	(<0.00480)	U	(<0.0490)	U	(<0.0470)	U	(<0.0470)	U	(<0.0470)	U	(<0.0520)	U	(<0.00530)	U	(<0.00490)	U	NA
Aroclor-1232	(mg/kg)	(<0.0050)	U	(<0.0510)	U	(<0.0490)	U	(<0.050)	U	(<0.0490)	U	(<0.0540)	U	(<0.00550)	U	(<0.00520)	U	NA
Aroclor-1242	(mg/kg)	(<0.00220)	U	(<0.0220)	U	(<0.0210)	U	(<0.0220)	U	(<0.0220)	U	(<0.0240)	U	(<0.00240)	U	(<0.00230)	U	NA
Aroclor-1248	(mg/kg)	(<0.00480)	U	(<0.0490)	U	(<0.0470)	U	(<0.0480)	U	(<0.0480)	U	(<0.0520)	U	(<0.00530)	U	(<0.0050)	U	NA
Aroclor-1254	(mg/kg)	(<0.00490)	U	(<0.050)	U	(<0.0480)	U	(<0.0490)	U	(<0.0480)	U	0.240		0.210	D	(<0.0050)	U	NA
Aroclor-1260	(mg/kg)	180	D	16.0	D	26.0	D	52.0	D	730	D	0.270		0.220	D	1,800	D	NA
Aroclor (Total)	(mg/kg)	**180**	**D**	16.0	D	26.0	D	**52.0**	**D**	**730**	**D**	0.510		0.430	D	**1,800**	**D**	50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-MWL-057L		224015-EA-MWL-058L		224015-EA-MWL-059L		224015-EA-MFL-060		224015-EA-MFL-061		224015-EA-MFL-062		224015-EA-MWL-063L		224015-EA-MWL-064L		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2361-17		A2361-21		A2361-20		A2361-19		A2362-10		A2362-09		A2362-19		A2361-04		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/16/2009		4/15/2009		
Aroclor-1016	(mg/kg)	(<0.00380)	U	(<0.00390)	U	(<0.00380)	U	(<0.40)	U	(<0.0390)	U	(<0.040)	U	(<0.00370)	U	(<0.00430)	U	NA
Aroclor-1221	(mg/kg)	(<0.00460)	U	(<0.00470)	U	(<0.00460)	U	(<0.480)	U	(<0.0480)	U	(<0.0480)	U	(<0.00450)	U	(<0.00530)	U	NA
Aroclor-1232	(mg/kg)	(<0.00480)	U	(<0.0050)	U	(<0.00480)	U	(<0.510)	U	(<0.050)	U	(<0.0510)	U	(<0.00480)	U	(<0.00560)	U	NA
Aroclor-1242	(mg/kg)	(<0.00210)	U	(<0.00220)	U	(<0.00210)	U	(<0.220)	U	(<0.0220)	U	(<0.0220)	U	(<0.00210)	U	(<0.00240)	U	NA
Aroclor-1248	(mg/kg)	(<0.00460)	U	(<0.00480)	U	(<0.00460)	U	(<0.490)	U	(<0.0480)	U	(<0.0490)	U	(<0.00460)	U	(<0.00530)	U	NA
Aroclor-1254	(mg/kg)	4.20	D	0.410	D	(<0.00470)	U	(<0.50)	U	(<0.0490)	U	(<0.050)	U	(<0.00470)	U	0.0990		NA
Aroclor-1260	(mg/kg)	3.50	D	0.40	D	4.10	D	33,000	EDP	130	D	56.0	D	1.0	D	0.130		NA
Aroclor (Total)	(mg/kg)	7.70	D	0.810	D	4.10	D	**33,000**	**EDP**	**130**	**D**	**56.0**	**D**	1.0	D	0.2290		50

NOTE: E = Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

TABLE 1 SUMMARY OF POLYCHLORINATED BIPHENYLS IN BRICK AND CONCRETE SAMPLES

Parameters List via USEPA Method 8082	Sample ID	224015-EA-MFL-065		224015-EA-MFL-066		224015-EA-MFL-067		224015-EA-MWL-068L		224015-EA-MFL-069		224015-EA-MFL-070		224015-EA-MFL-071		224015-EA-MFL-072		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2361-05		A2360-10		A2360-09		A2361-08		A2361-22		A2361-06		A2361-09		A2361-07		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		
Aroclor-1016	(mg/kg)	(<0.00380)	U	(<0.00380)	U	(<0.00380)	U	(<0.00440)	U	(<0.00380)	U	(<0.00380)	U	(<0.00390)	U	(<0.00380)	U	NA
Aroclor-1221	(mg/kg)	(<0.00460)	U	(<0.00460)	U	(<0.00460)	U	(<0.00540)	U	(<0.00460)	U	(<0.00460)	U	(<0.00470)	U	(<0.00470)	U	NA
Aroclor-1232	(mg/kg)	(<0.00490)	U	(<0.00490)	U	(<0.00490)	U	(<0.00570)	U	(<0.00490)	U	(<0.00490)	U	(<0.0050)	U	(<0.00490)	U	NA
Aroclor-1242	(mg/kg)	(<0.00210)	U	(<0.00210)	U	(<0.00210)	U	(<0.00250)	U	(<0.00210)	U	(<0.00210)	U	(<0.00220)	U	(<0.00220)	U	NA
Aroclor-1248	(mg/kg)	(<0.00470)	U	(<0.00470)	U	(<0.00470)	U	(<0.00550)	U	(<0.00470)	U	(<0.00470)	U	(<0.00480)	U	(<0.00470)	U	NA
Aroclor-1254	(mg/kg)	(<0.00480)	U	(<0.00480)	U	(<0.00480)	U	0.340		(<0.00480)	U	(<0.00470)	U	(<0.00480)	U	(<0.00480)	U	NA
Aroclor-1260	(mg/kg)	8,700	ED	1,900	D	1,900	D	0.310		3,300	D	200	D	3.10	D	4.10	D	NA
Aroclor (Total)	(mg/kg)	**8,700**	**ED**	**1,900**	**D**	**1,900**	**D**	0.650		**3,300**	**D**	**200**	**D**	3.10	D	4.10	D	50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-MWL-073L		224015-EA-2FL-074		224015-EA-2FL-075		224015-EA-2FL-076		224015-EA-2FL-077		224015-EA-2FL-078		224015-EA-2FL-079		224015-EA-2FL-080		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2361-01		A2360-01		A2360-02		A2360-03		A2360-04		A2360-05		A2360-06		A2360-07		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		4/15/2009		
Aroclor-1016	(mg/kg)	(<0.00370)	U	(<0.0040)	U	(<0.00390)	U	(<0.00390)	U	(<0.00380)	U	(<0.00380)	U	(<0.00380)	U	(<0.00390)	U	NA
Aroclor-1221	(mg/kg)	(<0.00450)	U	(<0.00490)	U	(<0.00480)	U	(<0.00480)	U	(<0.00470)	U	(<0.00470)	U	(<0.00470)	U	(<0.00470)	U	NA
Aroclor-1232	(mg/kg)	(<0.00480)	U	(<0.00510)	U	(<0.0050)	U	(<0.0050)	U	(<0.00490)	U	(<0.00490)	U	(<0.00490)	U	(<0.0050)	U	NA
Aroclor-1242	(mg/kg)	(<0.00210)	U	(<0.00230)	U	(<0.00220)	U	(<0.00220)	U	(<0.00220)	U	(<0.00210)	U	(<0.00220)	U	(<0.00220)	U	NA
Aroclor-1248	(mg/kg)	(<0.00460)	U	(<0.00490)	U	(<0.00480)	U	(<0.00480)	U	(<0.00470)	U	(<0.00470)	U	(<0.00470)	U	(<0.00480)	U	NA
Aroclor-1254	(mg/kg)	1.0	D	(<0.0050)	U	(<0.00490)	U	(<0.00490)	U	(<0.00480)	U	(<0.00480)	U	(<0.00480)	U	(<0.00480)	U	NA
Aroclor-1260	(mg/kg)	1.0	D	1.10	D	18.0	D	17.0	D	7.20	D	22.0	D	0.960	D	5.30	D	NA
Aroclor (Total)	(mg/kg)	2.0	D	1.10	D	18.0	D	17.0	D	7.20	D	22.0	D	0.960	D	5.30	D	50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-2WL-081L		224015-EA-BPL-082L		224015-EA-BPL-083L		224015-EA-BPL-084L		224015-EA-BPL-085L		224015-EA-BFL-086		224015-EA-BPL-087L		224015-EA-BFL-088		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2360-08		A2363-06		A2363-08		A2365-02		A2365-07		A2362-14		A2363-18		A2365-01		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/15/2009		4/17/2009		4/17/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		
Aroclor-1016	(mg/kg)	(<0.00370)	U	(<0.00440)	U	(<0.00420)	U	(<0.00380)	U	(<0.00430)	U	(<0.040)	U	(<0.00450)	U	(<0.0040)	U	NA
Aroclor-1221	(mg/kg)	(<0.00450)	U	(<0.00530)	U	(<0.00510)	U	(<0.00460)	U	(<0.00530)	U	(<0.0490)	U	(<0.00550)	U	(<0.00490)	U	NA
Aroclor-1232	(mg/kg)	(<0.00480)	U	(<0.00560)	U	(<0.00540)	U	(<0.00480)	U	(<0.00550)	U	(<0.0520)	U	(<0.00570)	U	(<0.00510)	U	NA
Aroclor-1242	(mg/kg)	(<0.00210)	U	(<0.00250)	U	(<0.00240)	U	(<0.00210)	U	(<0.00240)	U	(<0.0230)	U	(<0.00250)	U	(<0.00220)	U	NA
Aroclor-1248	(mg/kg)	(<0.00460)	U	(<0.00540)	U	(<0.00520)	U	(<0.00460)	U	(<0.00530)	U	(<0.050)	U	(<0.00550)	U	(<0.00490)	U	NA
Aroclor-1254	(mg/kg)	(<0.00460)	U	0.320	D	(<0.00520)	U	(<0.00470)	U	(<0.00540)	U	(<0.0510)	U	(<0.00560)	U	(<0.0050)	U	NA
Aroclor-1260	(mg/kg)	0.970	D	0.330	D	0.30	D	0.260		0.360		13.0	D	0.0910		400	D	NA
Aroclor (Total)	(mg/kg)	0.970	D	0.650	D	0.30	D	0.260		0.360		13.0	D	0.0910		**400**	**D**	50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-BPL-089L		224015-EA-BPL-090L		224015-EA-BPL-091L		224015-EA-BFL-092		224015-EA-BFL-093		224015-EA-BPL-094L		224015-EA-BPL-095L		224015-EA-BPL-096L		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2365-15		A2365-21		A2364-04		A2364-09		A2363-20		A2364-11		A2364-08		A2365-16		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		
Aroclor-1016	(mg/kg)	(<0.0220)	U	(<0.00430)	U	(<0.0440)	U	(<0.0390)	U	(<0.0040)	U	(<0.0430)	U	(<0.0440)	U	(<0.00460)	U	NA
Aroclor-1221	(mg/kg)	(<0.0260)	U	(<0.00530)	U	(<0.0550)	U	(<0.0480)	U	(<0.00490)	U	(<0.0530)	U	(<0.0540)	U	(<0.00560)	U	NA
Aroclor-1232	(mg/kg)	(<0.0280)	U	(<0.00550)	U	(<0.0560)	U	(<0.050)	U	(<0.00520)	U	(<0.0550)	U	(<0.0570)	U	(<0.00580)	U	NA
Aroclor-1242	(mg/kg)	(<0.0120)	U	(<0.00240)	U	(<0.0250)	U	(<0.0220)	U	(<0.00230)	U	(<0.0240)	U	(<0.0250)	U	(<0.00260)	U	NA
Aroclor-1248	(mg/kg)	(<0.0270)	U	(<0.00530)	U	(<0.0540)	U	(<0.0480)	U	(<0.0050)	U	(<0.0530)	U	(<0.0550)	U	(<0.00560)	U	NA
Aroclor-1254	(mg/kg)	(<0.0270)	U	0.170		(<0.0550)	U	(<0.0490)	U	(<0.00510)	U	(<0.0540)	U	(<0.0550)	U	(<0.00570)	U	NA
Aroclor-1260	(mg/kg)	1.30		0.220		0.190	J	2.60		3,700	D	0.350		0.360		0.240		NA
Aroclor (Total)	(mg/kg)	1.30		0.390		0.190	J	2.60		**3,700**	**D**	0.350		0.360		0.240		50

TABLE 1 SUMMARY OF POLYCHLORINATED BIPHENYLS IN BRICK AND CONCRETE SAMPLES

Parameters List via USEPA Method 8082	Sample ID	224015-EA-BPL-097L		224015-EA-BFL-098		224015-EA-BPL-099L		224015-EA-BFL-100		224015-EA-BPL-101L		224015-EA-BPL-102L		224015-EA-BFL-103L		224015-EA-BFL-104		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2360-21		A2365-03		A2365-09		A2362-13		A2365-08		A2364-10		A2364-06		A2364-05		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		
Aroclor-1016	(mg/kg)	(<0.00440)	U	(<0.00420)	U	(<0.0210)	U	(<0.040)	U	(<0.00430)	U	(<0.0430)	U	(<0.0440)	U	(<0.040)	U	NA
Aroclor-1221	(mg/kg)	(<0.00540)	U	(<0.00510)	U	(<0.0260)	U	(<0.0490)	U	(<0.00530)	U	(<0.0530)	U	(<0.0540)	U	(<0.0490)	U	NA
Aroclor-1232	(mg/kg)	(<0.00560)	U	(<0.00540)	U	(<0.0270)	U	(<0.0510)	U	(<0.00550)	U	(<0.0560)	U	(<0.0570)	U	(<0.0510)	U	NA
Aroclor-1242	(mg/kg)	(<0.00250)	U	(<0.00240)	U	(<0.0120)	U	(<0.0220)	U	(<0.00240)	U	(<0.0240)	U	(<0.0250)	U	(<0.0220)	U	NA
Aroclor-1248	(mg/kg)	(<0.00540)	U	(<0.00520)	U	(<0.0260)	U	(<0.0490)	U	(<0.00530)	U	(<0.0530)	U	(<0.0550)	U	(<0.0490)	U	NA
Aroclor-1254	(mg/kg)	(<0.00550)	U	(<0.00520)	U	(<0.0260)	U	(<0.050)	U	(<0.00540)	U	(<0.0540)	U	(<0.0560)	U	(<0.050)	U	NA
Aroclor-1260	(mg/kg)	51.0	D	5.60	D	0.590		34.0	D	1.0	D	1.20		0.660		64.0	D	NA
Aroclor (Total)	(mg/kg)	**51.0**	**D**	5.60	D	0.590		34.0	D	1.0	D	1.20		0.660		**64.0**	**D**	50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-BFL-105		224015-EA-BPL-106L		224015-EA-BPL-107L		224015-EA-BPL-108L		224015-EA-BPL-109L		224015-EA-BFL-110		224015-EA-BPL-111L		224015-EA-BFL-112		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2364-12		A2363-19		A2364-07		A2362-11		A2365-17		A2365-19		A2362-17		A2365-05		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		
Aroclor-1016	(mg/kg)	(<0.0380)	U	(<0.00440)	U	(<0.0440)	U	(<0.0450)	U	(<0.00420)	U	(<0.00410)	U	(<0.00440)	U	(<0.00390)	U	NA
Aroclor-1221	(mg/kg)	(<0.0470)	U	(<0.00540)	U	(<0.0530)	U	(<0.0550)	U	(<0.00510)	U	(<0.0050)	U	(<0.00540)	U	(<0.00480)	U	NA
Aroclor-1232	(mg/kg)	(<0.0490)	U	(<0.00570)	U	(<0.0560)	U	(<0.0570)	U	(<0.00540)	U	(<0.00520)	U	(<0.00560)	U	(<0.0050)	U	NA
Aroclor-1242	(mg/kg)	(<0.0220)	U	(<0.00250)	U	(<0.0250)	U	(<0.0250)	U	(<0.00240)	U	(<0.00230)	U	(<0.00250)	U	(<0.00220)	U	NA
Aroclor-1248	(mg/kg)	(<0.0470)	U	(<0.00550)	U	(<0.0540)	U	(<0.0550)	U	(<0.00520)	U	(<0.0050)	U	(<0.00540)	U	(<0.00480)	U	NA
Aroclor-1254	(mg/kg)	(<0.0480)	U	0.710	D	(<0.0550)	U	(<0.0560)	U	(<0.00520)	U	(<0.00510)	U	(<0.00550)	U	(<0.00490)	U	NA
Aroclor-1260	(mg/kg)	74.0	D	0.570	D	0.340		0.640		0.820	D	97.0	D	0.280		6,300	ED	NA
Aroclor (Total)	(mg/kg)	**74.0**	**D**	1.280	D	0.340		0.640		0.820		**97.0**	**D**	0.280		**6,300**	**ED**	50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-BPL-113L		224015-EA-BPL-114L		224015-EA-BPL-115L		224015-EA-BFL-116		224015-EA-BFL-117		224015-EA-BPL-118L		224015-EA-BPL-119L		224015-EA-BPL-120L		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2365-04		A2364-23		A2364-22		A2364-20		A2367-08		A2364-21		A2362-12		A2364-15		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		
Aroclor-1016	(mg/kg)	(<0.00440)	U	(<0.040)	U	(<0.0440)	U	(<0.0410)	U	(<0.40)	U	(<0.0440)	U	(<0.0420)	U	(<0.0430)	U	NA
Aroclor-1221	(mg/kg)	(<0.00540)	U	(<0.0490)	U	(<0.0540)	U	(<0.050)	U	(<0.490)	U	(<0.0530)	U	(<0.0510)	U	(<0.0530)	U	NA
Aroclor-1232	(mg/kg)	(<0.00570)	U	(<0.0510)	U	(<0.0560)	U	(<0.0520)	U	(<0.520)	U	(<0.0560)	U	(<0.0530)	U	(<0.0560)	U	NA
Aroclor-1242	(mg/kg)	(<0.00250)	U	(<0.0220)	U	(<0.0250)	U	(<0.0230)	U	(<0.230)	U	(<0.0250)	U	(<0.0230)	U	(<0.0240)	U	NA
Aroclor-1248	(mg/kg)	(<0.00550)	U	(<0.0490)	U	(<0.0540)	U	(<0.0510)	U	(<0.50)	U	(<0.0540)	U	(<0.0510)	U	(<0.0530)	U	NA
Aroclor-1254	(mg/kg)	(<0.00550)	U	(<0.050)	U	(<0.0550)	U	(<0.0510)	U	(<0.510)	U	(<0.0550)	U	(<0.0520)	U	(<0.0540)	U	NA
Aroclor-1260	(mg/kg)	6.0	D	1.80		1.60		130	D	3,100	D	0.360		190	D	0.280		NA
Aroclor (Total)	(mg/kg)	6.0	D	1.80		1.60		**130**	**D**	**3,100**	**D**	0.360		**190**	**D**	0.280		50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-BPL-121L		224015-EA-BFL-122		224015-EA-BFL-123		224015-EA-BPL-124L		224015-EA-BPL-125L		224015-EA-BPL-126L		224015-EA-BPL-127L		224015-EA-BFL-128		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2364-18		A2364-13		A2366-11		A2364-14		A2364-24		A2367-09		A2363-22		A2365-10		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		
Aroclor-1016	(mg/kg)	(<0.0440)	U	(<0.0390)	U	(<0.0040)	U	(<0.0440)	U	(<0.0450)	U	(<0.00450)	U	(<0.00410)	U	(<0.190)	U	NA
Aroclor-1221	(mg/kg)	(<0.0540)	U	(<0.0480)	U	(<0.00480)	U	(<0.0540)	U	(<0.0550)	U	(<0.00550)	U	(<0.0050)	U	(<0.230)	U	NA
Aroclor-1232	(mg/kg)	(<0.0560)	U	(<0.050)	U	(<0.00510)	U	(<0.0560)	U	(<0.0580)	U	(<0.00580)	U	(<0.00520)	U	(<0.240)	U	NA
Aroclor-1242	(mg/kg)	(<0.0250)	U	(<0.0220)	U	(<0.00220)	U	(<0.0250)	U	(<0.0250)	U	(<0.00250)	U	(<0.00230)	U	(<0.110)	U	NA
Aroclor-1248	(mg/kg)	(<0.0540)	U	(<0.0480)	U	(<0.00490)	U	(<0.0540)	U	(<0.0560)	U	(<0.00560)	U	(<0.0050)	U	(<0.230)	U	NA
Aroclor-1254	(mg/kg)	(<0.0550)	U	(<0.0490)	U	(<0.0050)	U	(<0.0550)	U	(<0.0570)	U	(<0.00570)	U	(<0.00510)	U	(<0.240)	U	NA
Aroclor-1260	(mg/kg)	2.0		34.0	D	730	D	1.10		0.170	J	1.20	D	1.40	D	87.0	D	NA
Aroclor (Total)	(mg/kg)	2.0		34.0	D	**730**	**D**	1.10		0.170	J	1.20	D	1.40	D	**87.0**	**D**	50

TABLE 1 SUMMARY OF POLYCHLORINATED BIPHENYLS IN BRICK AND CONCRETE SAMPLES

Parameters List via USEPA Method 8082	Sample ID	224015-EA-BFL-129		224015-EA-BFL-130		224015-EA-BFL-131		224015-EA-BWL-132L		224015-EA-BWL-133L		224015-EA-BFL-134		224015-EA-BWL-135L		224015-EA-BWL-136L		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2367-07		A2363-21		A2367-01		A2362-15		A2367-10		A2367-06		A2367-02		A2364-19		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		
Aroclor-1016	(mg/kg)	(<0.40)	U	(<0.0040)	U	(<0.00390)	U	(<0.0440)	U	(<0.00450)	U	(<0.430)	U	(<0.00410)	U	(<0.0440)	U	NA
Aroclor-1221	(mg/kg)	(<0.480)	U	(<0.00490)	U	(<0.00470)	U	(<0.0540)	U	(<0.00550)	U	(<0.530)	U	(<0.0050)	U	(<0.0540)	U	NA
Aroclor-1232	(mg/kg)	(<0.510)	U	(<0.00510)	U	(<0.0050)	U	(<0.0570)	U	(<0.00570)	U	(<0.560)	U	(<0.00520)	U	(<0.0560)	U	NA
Aroclor-1242	(mg/kg)	(<0.220)	U	(<0.00230)	U	(<0.00220)	U	(<0.0250)	U	(<0.00250)	U	(<0.240)	U	(<0.00230)	U	(<0.0250)	U	NA
Aroclor-1248	(mg/kg)	(<0.490)	U	(<0.00490)	U	(<0.00480)	U	(<0.0550)	U	(<0.00550)	U	(<0.530)	U	(<0.0050)	U	(<0.0540)	U	NA
Aroclor-1254	(mg/kg)	(<0.490)	U	3,700	D	(<0.00480)	U	(<0.0550)	U	(<0.00560)	U	(<0.540)	U	(<0.00510)	U	(<0.0550)	U	NA
Aroclor-1260	(mg/kg)	2,000	D	4,200	D	250	D	0.320		0.650	D	1,000	D	0.450	D	0.340		NA
Aroclor (Total)	(mg/kg)	**2,000**	**D**	**7,900**	**D**	**250**	**D**	0.320		0.650	D	**1,000**	**D**	0.450	D	0.340		50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-BFL-137		224015-EA-BWL-138L		224015-EA-BFL-139		224015-EA-BFL-140		224015-EA-BFL-141		224015-EA-BFL-142		224015-EA-BFL-143		224015-EA-BWL-144L		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2367-11		A2367-05		A2366-18		A2366-14		A2366-16		A2366-04		A2365-06		A2365-11		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		
Aroclor-1016	(mg/kg)	(<0.00390)	U	(<0.00380)	U	(<0.00380)	U	(<0.00380)	U	(<0.00380)	U	(<0.00380)	U	(<0.00380)	U	(<0.00420)	U	NA
Aroclor-1221	(mg/kg)	(<0.00480)	U	(<0.00460)	U	(<0.00470)	U	(<0.00460)	U	(<0.00460)	U	(<0.00460)	U	(<0.00460)	U	(<0.00520)	U	NA
Aroclor-1232	(mg/kg)	(<0.0050)	U	(<0.00480)	U	(<0.00490)	U	(<0.00490)	U	(<0.00490)	U	(<0.00490)	U	(<0.00490)	U	(<0.00540)	U	NA
Aroclor-1242	(mg/kg)	(<0.00220)	U	(<0.00210)	U	(<0.00220)	U	(<0.00210)	U	(<0.00210)	U	(<0.00210)	U	(<0.00210)	U	(<0.00240)	U	NA
Aroclor-1248	(mg/kg)	(<0.00480)	U	(<0.00460)	U	(<0.00470)	U	(<0.00470)	U	(<0.00470)	U	(<0.00470)	U	(<0.00470)	U	(<0.00520)	U	NA
Aroclor-1254	(mg/kg)	(<0.00490)	U	(<0.00470)	U	(<0.00480)	U	(<0.00480)	U	(<0.00480)	U	(<0.00470)	U	(<0.00470)	U	(<0.00530)	U	NA
Aroclor-1260	(mg/kg)	500	D	5.50	D	25.0	D	76.0	D	11.0	D	140	D	100	D	0.680	D	NA
Aroclor (Total)	(mg/kg)	**500**	**D**	5.50	D	25.0	D	**76.0**	**D**	11.0	D	**140**	**D**	**100**	**D**	0.680	D	50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-BWL-145L		224015-EA-BFL-146		224015-EA-BFL-147		224015-EA-BWL-148L		224015-EA-BWL-149L		224015-EA-BWL-150L		224015-EA-BWL-151L		224015-EA-BWL-152L		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2366-06		A2366-05		A2365-18		A2362-16		A2366-17		A2366-08		A2365-14		A2365-13		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		
Aroclor-1016	(mg/kg)	(<0.00410)	U	(<0.00380)	U	(<0.00380)	U	(<0.0380)	U	(<0.00370)	U	(<0.00420)	U	(<0.00390)	U	(<0.00750)	U	NA
Aroclor-1221	(mg/kg)	(<0.00510)	U	(<0.00470)	U	(<0.00460)	U	(<0.0470)	U	(<0.00450)	U	(<0.00510)	U	(<0.00470)	U	(<0.00920)	U	NA
Aroclor-1232	(mg/kg)	(<0.00530)	U	(<0.00490)	U	(<0.00490)	U	(<0.0490)	U	(<0.00480)	U	(<0.00530)	U	(<0.0050)	U	(<0.00970)	U	NA
Aroclor-1242	(mg/kg)	(<0.00230)	U	(<0.00210)	U	(<0.00210)	U	(<0.0210)	U	(<0.00210)	U	(<0.00230)	U	(<0.00220)	U	(<0.00420)	U	NA
Aroclor-1248	(mg/kg)	(<0.00510)	U	(<0.00470)	U	(<0.00470)	U	(<0.0470)	U	(<0.00460)	U	(<0.00510)	U	(<0.00480)	U	(<0.00930)	U	NA
Aroclor-1254	(mg/kg)	(<0.00520)	U	(<0.00480)	U	(<0.00480)	U	(<0.0480)	U	0.680	D	(<0.00520)	U	(<0.00480)	U	(<0.00940)	U	NA
Aroclor-1260	(mg/kg)	0.170		11.0	D	180	DP	0.250		(<0.00380)	U	0.440	D	0.180		0.50		NA
Aroclor (Total)	(mg/kg)	0.170		11.0	D	**180**	**DP**	0.250		0.680	D	0.440	D	0.180		0.50		50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-BWL-153L		224015-EA-BWL-154L		224015-EA-BWL-155L		224015-EA-BFL-156		224015-EA-BFL-157		224015-EA-BFL-158		224015-EA-BFL-159		224015-EA-BWL-160L		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2366-13		A2366-03		A2366-15		A2366-02		A2366-12		A2365-12		A2366-01		A2366-09		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		
Aroclor-1016	(mg/kg)	(<0.00370)	U	(<0.00380)	U	(<0.00380)	U	(<0.00380)	U	(<0.00380)	U	(<0.00380)	U	(<0.00380)	U	(<0.00370)	U	NA
Aroclor-1221	(mg/kg)	(<0.00450)	U	(<0.00460)	U	(<0.00460)	U	(<0.00470)	U	(<0.00460)	U	(<0.00460)	U	(<0.00460)	U	(<0.00460)	U	NA
Aroclor-1232	(mg/kg)	(<0.00480)	U	(<0.00480)	U	(<0.00480)	U	(<0.00490)	U	(<0.00490)	U	(<0.00480)	U	(<0.00490)	U	(<0.00480)	U	NA
Aroclor-1242	(mg/kg)	(<0.00210)	U	(<0.00210)	U	(<0.00210)	U	(<0.00220)	U	(<0.00210)	U	(<0.00210)	U	(<0.00210)	U	(<0.00210)	U	NA
Aroclor-1248	(mg/kg)	(<0.00460)	U	(<0.00460)	U	(<0.00470)	U	(<0.00470)	U	(<0.00470)	U	(<0.00460)	U	(<0.00470)	U	(<0.00460)	U	NA
Aroclor-1254	(mg/kg)	(<0.00460)	U	(<0.00470)	U	(<0.00470)	U	(<0.00480)	U	(<0.00470)	U	(<0.00470)	U	(<0.00480)	U	(<0.00470)	U	NA
Aroclor-1260	(mg/kg)	140	D	0.860	D	0.160		590	D	85	D	21.0	D	43.0	D	3.10	D	NA
Aroclor (Total)	(mg/kg)	**140**	**D**	0.860	D	0.160		**590**	**D**	**85**	**D**	21.0	D	43.0	D	3.10	D	50

TABLE 1 SUMMARY OF POLYCHLORINATED BIPHENYLS IN BRICK AND CONCRETE SAMPLES

Parameters List via USEPA Method 8082	Sample ID	224015-EA-BFL-161		224015-EA-BWL-162L		224015-EA-BWL-163L		224015-EA-BFL-164		224015-EA-BFL-165		224015-EA-BWL-166L		DUPLICATE		224015-EA-DUP 01		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2366-10		A2363-17		A2363-16		A2363-15		A2366-07		A2365-20		Z5890-16		A2361-15		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		12/17/2008		4/15/2009		
Aroclor-1016	(mg/kg)	(<0.00380)	U	(<0.00410)	U	(<0.00540)	U	(<0.00250)	U	(<0.00210)	U	(<0.00450)	U	(<0.00430)	U	(<0.00430)	U	NA
Aroclor-1221	(mg/kg)	(<0.00460)	U	(<0.0050)	U	(<0.00660)	U	(<0.00450)	U	(<0.00380)	U	(<0.00550)	U	(<0.00530)	U	(<0.00530)	U	NA
Aroclor-1232	(mg/kg)	(<0.00490)	U	(<0.00520)	U	(<0.00690)	U	(<0.00550)	U	(<0.00470)	U	(<0.00580)	U	(<0.00560)	U	(<0.00560)	U	NA
Aroclor-1242	(mg/kg)	(<0.00210)	U	(<0.00230)	U	(<0.0030)	U	(<0.00550)	U	(<0.00470)	U	(<0.00250)	U	(<0.00240)	U	(<0.00240)	U	NA
Aroclor-1248	(mg/kg)	(<0.00470)	U	(<0.0050)	U	(<0.00660)	U	(<0.00560)	U	(<0.00480)	U	(<0.00550)	U	(<0.00530)	U	(<0.00530)	U	NA
Aroclor-1254	(mg/kg)	(<0.00470)	U	(<0.00510)	U	(<0.00670)	U	(<0.00570)	U	(<0.00490)	U	(<0.00560)	U	(<0.00540)	U	0.620	D	NA
Aroclor-1260	(mg/kg)	160	D	26,000	ED	11,000	EDP	5,400	ED	98	D	1.50	D	0.30	D	0.650	D	NA
Aroclor (Total)	(mg/kg)	**160**	**D**	**26,000**	**ED**	**11,000**	**EDP**	**5,400**	**ED**	**98**	**D**	1.50	D	0.30	D	1.270	D	50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-DUP 02		224015-EA-DUP 03		224015-EA-DUP 04		224015-EA-DUP 05		224015-EA-DUP 06		224015-EA-DUP 07			6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2361-10		A2366-20		A2366-19		A2363-23		A2362-18		A2363-11			
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil			
	Sample Date	4/15/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/17/2009			
Aroclor-1016	(mg/kg)	(<0.00430)	U	(<0.00380)	U	(<0.00420)	U	(<0.00430)	U	(<0.420)	U	(<0.00430)	U		NA
Aroclor-1221	(mg/kg)	(<0.00530)	U	(<0.00460)	U	(<0.00520)	U	(<0.00530)	U	(<0.510)	U	(<0.00530)	U		NA
Aroclor-1232	(mg/kg)	(<0.00550)	U	(<0.00480)	U	(<0.00540)	U	(<0.00550)	U	(<0.540)	U	(<0.00550)	U		NA
Aroclor-1242	(mg/kg)	(<0.00240)	U	(<0.00210)	U	(<0.00240)	U	(<0.00240)	U	(<0.240)	U	(<0.00240)	U		NA
Aroclor-1248	(mg/kg)	(<0.00530)	U	(<0.00460)	U	(<0.00520)	U	(<0.00530)	U	(<0.520)	U	(<0.00530)	U		NA
Aroclor-1254	(mg/kg)	0.330		0.980	D	0.670	D	0.330		(<0.520)	U	(<0.00540)	U		NA
Aroclor-1260	(mg/kg)	0.310		(<0.00370)	U	(<0.00420)	U	0.340	P	5.20		0.460	D		NA
Aroclor (Total)	(mg/kg)	0.640		0.980	D	0.670	D	0.670	P	5.20		0.460	D		50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-RINSATE-01		224015-EA-RINSATE-02		224015-EA-RINSATE-03		224015-EA-RINSATE-04		224015-EA-RINSATE-05			NYSDEC Ambient Water Quality Standard (ug/L)
	Lab ID	A2363-01		A2363-02		A2363-03		A2363-04		A2363-05			
	Sample Type	Water		Water		Water		Water		Water			
	Sample Date	4/15/2009		4/15/2009		4/16/2009		4/16/2009		4/17/2009			
Aroclor-1016	(ug/L)	(<0.1580)	U	(<0.1460)	U	(<0.1560)	U	(<0.1450)	U	(<0.1560)	U		0.09(s)
Aroclor-1221	(ug/L)	(<0.1260)	U	(<0.1160)	U	(<0.1240)	U	(<0.1150)	U	(<0.1240)	U		0.09(s)
Aroclor-1232	(ug/L)	(<0.1280)	U	(<0.1190)	U	(<0.1260)	U	(<0.1170)	U	(<0.1260)	U		0.09(s)
Aroclor-1242	(ug/L)	(<0.0810)	U	(<0.0750)	U	(<0.0800)	U	(<0.0750)	U	(<0.080)	U		0.09(s)
Aroclor-1248	(ug/L)	(<0.1120)	U	(<0.1040)	U	(<0.1110)	U	(<0.1030)	U	(<0.1110)	U		0.09(s)
Aroclor-1254	(ug/L)	(<0.1540)	U	(<0.1430)	U	(<0.1530)	U	(<0.1420)	U	(<0.1530)	U		0.09(s)
Aroclor-1260	(ug/L)	(<0.0990)	U	**0.340**	J	(<0.0980)	U	(<0.0910)	U	(<0.0980)	U		0.09(s)

NOTE: NYSDEC = New York State Department of Environmental Conservation
DUPLICATE sample was collected from X, DUP 01 was collected from MWL-055L, DUP 02 was collected from MWL-068L, DUP 03 was collected from BWL-154L, DUP 04 was collected from BWL-144L, DUP 05 was collected from BPL-107L, DUP 06 was collected from BFL-098, and DUP 07 was collected from BPL-082L.