LIMITED HAZARDOUS BUILDING MATERIALS SURVEY REPORT

For

KINGSBRIDGE ARMORY
1 WEST KINGSBRIDGE ROAD
BRONX, NEW YORK 10468
(Block: 3247, Lot: 10)

Prepared For:

GILBANE BUILDING COMPANY
Wall Street Plaza
27th Floor
New York, New York 10005

Prepared By:

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LANGAN

TABLE OF CONTENTS

Page No.

ACRONYMS ..... **ii**

EXECUTIVE SUMMARY **1**

1.0 INTRODUCTION **3**

2.0 SURVEY METHODOLOGY **3**

3.0 ASBESTOS CONTAINING MATERIALS **4**
- **3.1 Terminology** **4**
- **3.2 Files Review** **5**
- **3.3 Observations and Findings** **6**

4.0 LEAD CONTAINING PAINT **6**

5.0 HAZARDOUS WASTE **7**

6.0 CONCLUSIONS AND RECOMMENDATIONS **7**
- **6.1 Asbestos Containing Materials** **7**
- **6.2 Lead Containing Paint** **9**
- **6.3 Hazardous Waste** **10**

7.0 LIMITATIONS, EXCEPTIONS AND ASSUMPTIONS **10**

TABLES

Table 1 **Summary of Asbestos Survey Findings**
Table 2 **Lead Containing paint XRF Screening Data**
Table 3 **Universal/Hazardous Waste Inventory**

DRAWINGS

ASL-1 thru ASL-7 **Asbestos Sampling, XRF Screening Locations & Space IDs**

APPENDICES

Appendix A **Laboratory Test Results and Chain of Custody Documentation (Asbestos)**
Appendix B **Langan's Certifications and Laboratory Accreditations**
Appendix C **October 6, 2008 Asbestos Investigation Report by Langan**
Appendix D **August 24, 2000 Environmental Investigation Report by ET Environmental Corporation (ET)**

ACRONYMS

USEPA	United States Environmental Protection Agency
NYSDOL	New York State Department of Labor
NYCDEP	New York City Department of Environmental Protection
AHERA	Asbestos Hazard Emergency Response Act
OSHA	Occupational Safety and Health Administration
CAA	Clean Air Act
TSCA	Toxic Substance Control Act
CFR	Code of Federal Regulation
EPA	United States Environmental Protection Agency
NYSELAP	New York State Environmental Laboratory Accreditation Program
HEPA	High Efficiency Particulate Air
HUD	Housing and Urban Development
NESHAPS	National Standards for Hazardous Air Pollutants
RCRA	Resource Conservation and Recovery Act
PLM	Polarized Light Microscopy
TEM	Transmission Electron Microscopy
ACM	Asbestos-Containing Materials
LCP	Lead-Containing Paint
PCBs	Polychlorinated Biphenyls (PCBs)
SF	square Feet
LF	Linear Feet
mg/cm^2	Milligrams per square centimeter
PPM	Parts Per Million
XRF	X-ray Fluorescence
AAS	Atomic Absorption Spectrometry
TCLP	Toxicity Characteristic Leaching Procedure

EXECUTIVE SUMMARY

This report by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) presents the findings of Hazardous building materials (Hazmat) identified at the Kingsbridge Armory located at 1 West Kingsbridge Road, Bronx, New York 10468 (Block: 3247, Lot: 10). The objective of this Hazmat Survey was to identify the presence/absence of asbestos-containing materials (ACM), lead containing paint (LCP), and universal/hazardous waste articles. The survey was limited to the building interiors. Suspect materials located on exterior elevations and roofs were excluded from the scope of work.

PROJECT INFORMATION:

Client Name:	Gilbane Building Company	Survey Dates:	October 23 & 25, 2019
Professional's Project #:	1707321307	Construction Dates:	1913
Professional's Project Manager:	Vijay Patel	No. of Building(s):	1
Phone No.:	973.560.4983	No. of Stories:	9 Levels, including Mezzanines, sub-basement, basement, and Towers.
Email:	vpatel@langan.com	Estimated Gross Footage:	Over 385,600 SF
Property Address:	Kingsbridge Armory 1 West Kingsbridge Road Bronx, New York 10468 (Block: 3247, Lot: 10)	Property Use:	Vacant

The following is a summary of ACM, LCP and other universal/miscellaneous hazardous articles identified in the building:

Asbestos-Containing Materials (ACM)

The following ACM and Assumed ACM materials were identified within the interiors of the Armory:

Material	Survey Results	Estimated Quantity
Block/air-cell pipe & joint insulation	ACM	6,250 LF
Concealed block and air-cell pipe insulation	ACM	7,100 LF
Pipe insulation debris	ACM	2,280 SF

Material	Survey Results	Estimated Quantity
Loose ACM contaminated construction & household debris	ACM	59,195 SF
Bags with ACM contaminated construction & household debris	ACM	90 CY
VAT & mastic	ACM	16,310 SF
VAT & mastic (damaged) & ACM contaminated construction & household debris	ACM	14,015 SF
Electrical wire insulation	ACM	46,250 SF
Mastic, flashing materials and caulking on gable ends and clerestory bands and contaminated panels	ACM	12,000 SF
Door caulk	ACM	60 SF
Ebony/Transite with electrical box	ACM	187 SF
Mirror glue	ACM	20 SF
Wall panel glue	ACM	1,750 SF

Most of the ACM was in damaged condition. Refer to Table 1 for a summary of asbestos survey findings.

Lead Containing Paint (LCP)

As per 40 CFR Part 745, TSCA, Title IV (Lead Exposure Reduction), the term "lead containing paint" means paint or other surface coatings that contain lead in excess of 1.0 milligrams per centimeter (mg/cm^2) or 0.5 percent by weight. Painted surfaces at the Armory were previously tested for lead and documented in 2000 Environmental Corporation (ET) report. Limited testing of lead in painted surfaces was performed by Langan during our recent site visits.

The vast majority of painted building components were identified to contain lead in excess of 1.0 milligrams per centimeter (mg/cm^2). Refer to Table 2 for the testing conducted by Langan, and Attachment D for a copy of XRF screening data documented in ET report.

Universal and Hazardous Waste Articles

Universal waste and hazardous waste articles consisting of fluorescent light ballasts, fluorescent light bulbs, MEC thermostat, high intensity discharge (HID), mercury containing equipment, batteries, and miscellaneous chemicals, etc. were identified in the building. The lamp ballasts/capacitors were assumed to contain Polychlorinated Biphenyls (PCBs) and/or di (2) ethylhexyl phthalate (DEHP) based on the information observed on labels or markings. The

inspection did not include sampling and analysis for waste classification, confirmation or identification purposes. Refer to Table 3 for an inventory of these materials.

1.0 INTRODUCTION

This report by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) presents the findings of Hazardous building materials (Hazmat) identified at the Kingsbridge Armory located at 1 West Kingsbridge Road, Bronx, New York 10468 (Block: 3247, Lot: 10). The objective of this Hazmat Survey was to identify the presence/absence of asbestos-containing materials (ACM), lead containing paint (LCP), and universal/hazardous waste articles. The survey was limited to the building interiors. Suspect materials located on exterior elevations and roofs were excluded from the scope of work.

The remainder of this report presents our observations, findings, laboratory test results, plans showing sampling locations, and an itemized inventory of hazmat identified within the Armory.

2.0 SURVEY METHODOLOGY

Asbestos-Containing Materials

The asbestos survey was conducted in accordance with EPA protocol outlined in the EPA publication "Asbestos in Buildings". Suspect ACM was visually identified during a room-by-room, floor-by-floor survey of the buildings. Suspect ACM was categorized into various homogeneous materials and types, and sampled and analyzed for asbestos content. Sampling and analysis was conducted in accordance with EPA protocol 600/M4-82-020 per 40 CFR 763. Samples collected were properly packaged in individual containers, sealed; catalogued and chain-of-custody documentation was completed. Quantities of suspect materials were recorded and observations such as physical condition and friability of the materials were also noted. Samples were analyzed by AmeriSci laboratories.

Lead-Containing Paint Screening

A Heuresis Pb200i X-Ray Fluorescence (XRF) Spectrum Analyzer was used to test painted surfaces for lead. The Heuresis Pb200i analyzer uses a cobalt 57 radioactive

source and an advanced solid-state radiation detector to generate an x-ray fluorescence spectrum of a painted surface. During the analysis, the intensity of the x-rays is converted by the instrument's internal software into an estimate of the concentration of lead in the substance being analyzed. The results are interpreted as concentrations of lead in milligrams per square centimeter (mg/cm^2). This device is a field-screening tool, used to collect multiple readings in a short period of time. The method of measurement is based on spectrometric analysis of lead x-ray fluorescence within a controlled depth of interrogation. The reading is an estimate of lead content in all layers of paint.

Universal/Hazardous Waste Articles

As mandated by Subtitle C of the Resource Conservation and Recovery Act (RCRA), EPA promulgated hazardous waste regulations in 1980 to ensure that wastes which pose a threat to human health and the environment should be managed safely. Any waste within a building that makes it potentially harmful to human health or the environment is considered as a hazardous waste. Hazardous wastes are divided into listed wastes, characteristic wastes, universal wastes, and mixed wastes. The survey included preparing an inventory of universal and hazmat waste articles.

3.0 ASBESTOS CONTAINING MATERIALS

3.1 Terminology

Suspect Asbestos-Containing Materials

Asbestos has historically been used in certain types of construction and building materials. Until a material is examined using light microscopy or a similar technique, the building material is considered to be a suspect asbestos-containing material. A few examples of these materials include floor tiles, ceiling panels, thermal system insulation, fireproofing insulation, roofing materials, etc. Any suspect ACM of unknown asbestos content (that is not tested) should be handled as if it were an asbestos-containing material.

Asbestos–Containing Material

A material with an asbestos concentration greater than one percent by weight is considered to be asbestos-containing by the United States Environmental Protection Agency (USEPA). Thus, a material which contains asbestos in concentrations greater

than 1% by weight is considered as "positive" while materials that do not contain asbestos or asbestos is detected in concentrations less than one percent by weight are considered as "negative".

3.2 Files Review

Prior to conducting site survey, we reviewed the following pertinent reports for Armory:

1. October 6, 2008 Asbestos Investigation Report prepared by Langan
2. August 24, 2000 Environmental Investigation Report prepared by ET Environmental Corporation (ET) for subject building.

The reports reviewed documented presence of the following ACM in the Armory:

- various types of floor tiles/mastic (9-inch square beige floor tile and associated mastic, Black floor tile and associated mastic under plywood, 12-inch square tan wood design floor tile and associated mastic, 12-inch square terracotta floor tile and associated mastic, and Mastic associated with various 9-inch square floor tiles),
- pipe insulation debris mixed with plaster, wood and other construction debris
- air-cell and magnesia pipe and pipe joint insulation and mud-pack pipe joint insulation associated with fiberglass pipe insulation,
- wire wrap insulation,
- electric Transite switch panel,
- wall panel glue,
- mirror glue,
- interior door caulk

In addition to ACM, the vast majority of the painted building components were identified to contain lead in excess of 1.0 mg/cm^2. A copy of 2008 Langan and 2000 ET reports are provided in Appendices C & D, respectively.

3.3 Observations and Findings

The field survey of the subject Armory was conducted on October 23 & 25, 2019 by Langan's Miroslaw Baran, Adem Bajrami and Sanjay Patel, NYCDEP-certified asbestos investigators and NYSDOL-certified asbestos inspectors. Limited confirmatory samples of suspect materials were collected during the survey. As required by the USEPA, samples were analyzed by individual layer (i.e. floor tile and the associated mastic were analyzed as two (2) separate samples). Bulk samples of the suspect ACM were analyzed using the Polarized Light Microscopy (PLM) analytical methodology in accordance with 40CFR 763 and NESHAP regulations. Non-friable organically bound (NOB) material samples which tested negative via PLM were reanalyzed using transmission electron microscopy (TEM). Analytical testing was performed in accordance with NYSELAP Methods 198.1 (friable materials), 198.1(NOB), 198.4 (NOB-TEM) and 198.8 (surfacing materials containing vermiculite).

Refer to Table 1 for a summary of asbestos survey findings and Appendix A for the analytical test results and chain of custody documentation for the sampling performed during October 23 & 25, 2019 site visit. Sampling locations are depicted on Drawings ASL-1 thru ASL-7.

4.0 LEAD CONTAINING PAINT

Our review of the prior inspection report by ET indicate that the vast majority of the painted building components were identified to contain lead in excess of 1.0 mg/cm^2.

Limited testing of lead in painted surfaces was performed by Langan during our recent site visits. Overall, the painted surfaces were observed to be in poor condition. With the exception of ground level Drill Area, debris from damaged paint was observed mixed with ACM and other household debris throughout the building.

Refer to Table 2 for the testing conducted by Langan, and Attachment D for a copy of XRF screening data documented in ET report.

5.0 HAZARDOUS WASTE

The ET report documented and provided an inventory of Universal and other Waste identified in the building including but not limited to fluorescent lamps, high intensity discharge (HID) lamps, ballasts, mercury containing equipment, batteries, and miscellaneous chemicals. The lamp ballasts/capacitors were assumed to contain Polychlorinated Biphenyls (PCBs) and/or di (2) ethylhexyl phthalate (DEHP) based on the information observed on labels or markings. The inspection did not include sampling and analysis for waste classification, confirmation or identification purposes.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Asbestos Containing Materials

Regulatory Guidelines and Requirements:

Federal

In accordance with the Clean Air Act (CAA), the EPA established National Emission Standards for Hazardous Air Pollutants (NESHAP) to protect the public from exposure to airborne pollutants. Asbestos was one of the air pollutants, which was addressed under the NESHAP 40 CFR Part 61. The purpose of asbestos NESHAP regulations is to protect public health by minimizing the release of asbestos when facilities which contain ACM are being renovated or demolished. EPA is responsible for enforcing regulations related to asbestos during renovations and demolition; however, the CAA allows the EPA to delegate this authority to state and local Agencies. Even after the EPA delegates responsibility to a state or local agency, the EPA retains the authority to oversee agency performance and to enforce NESHAP regulations as appropriate.

State

Asbestos in New York State is regulated under the Labor Law Section 906, Part 56 of Title 12 of the Official Compilation of Codes, Rules, and Regulations. Within the department and for the purpose of the Department of Labor, this part (rule) is known as Industrial Code Rule No. 56 (ICR 56) relating to hazards to public safety and health during the removal, encapsulation, or disturbance of friable asbestos, or any handling of ACM that may result in the release of asbestos fiber.

City Regulations

Asbestos Control Program (ACP), Title 15, Chapter 1 of the New York City Department of Environmental Protection (NYCDEP) regulates all asbestos abatement activities occurring within the City of New York. The ACP regulations also require asbestos surveys and abatement work to be performed by a NYCDEP certified asbestos investigator and asbestos workers, respectively.

The New York City Department of Building (NYCDOB) requires an ACP notification to be included with the renovation/demolition permit applications. The notification is performed using ACP 5 or ACP 20/21 forms.

Asbestos containing materials were identified at the Armory. With the exception of the ground level Drill Area, debris from damaged ACM mixed with other household debris and damaged paint was throughout the building. Access to the building should be restricted until the clean-up inside the Armory is completed.

All confirmed and presumed ACM in the building that is to be left in place should be managed in good condition under an Operations and Management (O & M) plan. The purpose and objective of the O & M Plan is to maintain the assumed, presumed or known asbestos containing materials in good condition, prevent future release of asbestos fibers, and minimize exposure of all building occupants to asbestos fibers.

All identified ACM that would be impacted by any planned renovation/demolition must be removed prior to commencing such activities. The removal and disposal of ACM must be performed by a NYSDOL licensed asbestos handling contractor in accordance with Federal, state, and local regulations. Proper notifications must be filed with the EPA, NYSDOL, NYC-DEP and other regulatory agencies prior to performing such activities.

As required by NYSDOL and NYCDEP regulations, the abatement project must be monitored by a NYSDOL certified project monitor. The project monitor oversees the contractor's work practices and also performs pre, during, and final clearance post-abatement air sampling in accordance with state and city regulations.

6.2 Lead Containing Paint

The vast majority of the painted building components were identified to contain lead in excess of 1.0 mg/cm^2. The paint was flaking, cracking and in deteriorated conditions. With the exception of the ground level Drill Area, debris from damaged paint was observed mixed with ACM and other household debris throughout the building.

Debris clean-up and stabilization of painted surfaces will be necessary prior to building occupancy. The Occupational Safety and Health Administration (OSHA) considers any concentration of lead in paint to be lead containing paint. Regardless of the lead concentrations in painted surfaces, the contractor shall comply with 29 CFR 1926.62, OSHA regulations, and take precautionary measures for dust control and limit employee exposure to lead dust during construction.

Painted surfaces that would be impacted by planned activities such as drilling, cutting, scrapping, etc. and create dust should be properly addressed by following safe work practices, good housekeeping procedures and/or following proper abatement procedures. Grinding and sanding of paint without HEPA filter exhaust, open flame gas-fired torches, unconfined abrasive blasting, and chemical strippers containing methylene chloride or other human carcinogenic chemicals are not recommended.

In addition to dust control work practices, personal protective equipment (PPE) per task type is required. Depending on presumed exposure, this requires at least prescribed respirator equipment (i.e., P-100 to full face mask), protective clothing in addition to necessary (Standard of Care) protective task gloves and traditional construction safety gear including protective eyewear/boots/hard hat/safety vest.

The Federal Resource Conservation and Recovery Act (RCRA) regulation governs the handling, transportation, and disposal of hazardous materials. As part of the demolition work scope it must be determined whether the demolition debris that is generated exhibits one or more of the characteristic wastes listed in subpart C of 40 CFR Part 261. Lead in paint is a characteristic waste, and therefore, the demolition debris must be characterized prior to its disposal and, if found to be hazardous waste as defined by Federal Statutes, it will need to be properly handled and disposed.

Workers protection in accordance with 29 CFR 1926.62 shall be followed while performing torch cutting and welding operations on painted metal objects.

6.3 Hazardous Waste

Miscellaneous and universal waste consisting of but not limited to fluorescent light ballasts, fluorescent light bulbs, HID bulbs, HVAC units, etc. were identified at the Armory. Hazardous waste articles which would require removal shall be properly managed; recycled and/or disposed of at a landfill permitted to accept such waste. The removal, handling, recycling, and disposal shall be performed in accordance with applicable federal, state, and local regulations.

7.0 LIMITATIONS, EXCEPTIONS AND ASSUMPTIONS

Opinions and recommendations presented in this report apply to site conditions and features as they existed at the time of Langan's site visit, and those reasonably foreseeable. They cannot necessarily apply to conditions and features of which Langan is unaware and has not had the opportunity to evaluate.

Langan's evaluation of ACM was conducted in accordance with the standard of care and current customary practice of the profession. There are limitations inherent to visual surveys, and therefore, this asbestos survey does not claim to have sampled all possible suspect ACM present in the building.

Demolition/renovation activities may reveal concealed materials that were not accessible during the asbestos survey. Any suspect building material that is not listed in this report must be assumed to be ACM and treated as such unless otherwise confirmed by laboratory testing. If any concealed suspect ACM is uncovered during the planned demolition activities, then those activities that will impact suspect ACM must be discontinued until the suspect materials is sampled by an asbestos consultant and tested by an accredited laboratory for the presence of asbestos.

TABLES

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
ACM IDENTIFIED						
Sub-Basement						
SB4	Ebony/Transite with electrical box	---	ACM See Note 1.	6 SF	Fair	---
SB5	Ebony/Transite with electrical box	---	ACM See Note 1.	80 SF	Fair	---
Entire Level	Concealed block and air-cell pipe insulation	---	ACM See Note 1.	500 LF	Unknown	See Note 8
Entire Level	Electrical wire insulation	---	ACM See Note 1.	1,000 LF	Unknown	See Note 7
Basement Level						
B01	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	400 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	1,500 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	4.00 CY	N/A	See Note 4.
	Ebony/Transite with electrical box	---	ACM See Note 1.	2 SF	Fair	---
	Pipe insulation debris	---	ACM See Note 1.	2,000 SF	N/A	---
B02	Ebony/Transite with electrical box	---	ACM See Note 1.	1 SF	Fair	---
B11	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	280 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	2.00 CY	N/A	See Note 4.
B14	Ebony/Transite with electrical box	---	ACM See Note 1.	1 SF	Fair	---
B15	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	10 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
B16	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	13 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	130 SF	N/A	See Note 3.
B17	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	14 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	140 SF	N/A	See Note 3.
B18	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	15 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	150 SF	N/A	See Note 3.
B19	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	200 SF	N/A	See Note 3.
B20A	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	150 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	4.00 CY	N/A	See Note 4.
B21	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	25 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	250 SF	N/A	See Note 3.
B22	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	21 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	210 SF	N/A	See Note 3.
B23	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	17 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	160 SF	N/A	See Note 3.
B24	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	21 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	210 SF	N/A	See Note 3.
B25	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	18 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	170 SF	N/A	See Note 3.
B26	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	180 LF	Poor	---

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
B27	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	55 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	50 SF	N/A	See Note 3.
B28	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	105 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	900 SF	N/A	See Note 3.
B29	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	130 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	900 SF	N/A	See Note 3.
B30	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	175 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	900 SF	N/A	See Note 3.
B31	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	140 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	900 SF	N/A	See Note 3.
B32	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	100 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	860 SF	N/A	See Note 3.
B33	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	80 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	400 SF	N/A	See Note 3.
B34	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	150 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	860 SF	N/A	See Note 3.
B35	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	150 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	860 SF	N/A	See Note 3.
B36	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	100 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	860 SF	N/A	See Note 3.
B37	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	360 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	900 SF	N/A	See Note 3.
B38	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	45 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	50 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	—	ACM See Note 1.	2.00 CY	N/A	See Note 4.
	Ebony/Transite with electrical box	—	ACM See Note 1.	4 SF	Fair	—
B39	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	15 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	150 SF	N/A	See Note 3.
B40	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	—	ACM See Note 1.	1.00 CY	N/A	See Note 4.
B40A	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	90 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	—	ACM See Note 1.	2.00 CY	N/A	See Note 4.
B41	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	20 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	200 SF	N/A	See Note 3.
B42	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	12 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	120 SF	N/A	See Note 3.
B44	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	17 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	170 SF	N/A	See Note 3.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
B45	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	180 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	550 SF	N/A	See Note 3.
B46	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	20 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	190 SF	N/A	See Note 3.
B47	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	17 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	170 SF	N/A	See Note 3.
B48	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	15 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	150 SF	N/A	See Note 3.
B50	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	20 LF	Poor	—
B51	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	14 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	130 SF	N/A	See Note 3.
B53	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	25 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	240 SF	N/A	See Note 3.
B54	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	700 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	5,800 SF	N/A	See Note 3.
B55	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	60 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	170 SF	N/A	See Note 3.
B56	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	50 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	500 SF	N/A	See Note 3.
B57	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	45 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	690 SF	N/A	See Note 3.
B61	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	55 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	250 SF	N/A	See Note 3.
B62	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	3 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	30 SF	N/A	See Note 3.
	VAT & mastic	—	ACM See Note 1.	200 SF	Poor	—
B63	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	10 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	20 SF	N/A	See Note 3.
B64	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	6 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	40 SF	N/A	See Note 3.
B65	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	15 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	100 SF	N/A	See Note 3.
B66	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	50 SF	N/A	See Note 3.
B67	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	15 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	3,000 SF	N/A	See Note 3.
B68	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	120 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	—	ACM See Note 1.	3.00 CY	N/A	See Note 4.
B71	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	70 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	1,600 SF	N/A	See Note 3.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
B72	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	25 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	150 SF	N/A	See Note 3.
B73	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	20 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.
B74	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	20 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.
B75	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	20 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.
B76	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	35 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.
B77	Ebony/Transite with electrical box	—	ACM See Note 1.	1 SF	Fair	—
B78A	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	5 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	180 SF	N/A	See Note 3.
B78	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	60 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	340 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	—	ACM See Note 1.	2.00 CY	N/A	See Note 4.
B78B	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	100 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	370 SF	N/A	See Note 3.
	Door caulk	—	ACM See Note 1.	60 LF	Fair	—
B79	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	230 SF	N/A	See Note 3.
B80	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	160 SF	N/A	See Note 3.
B81	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	150 SF	N/A	See Note 3.
B82	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	50 SF	N/A	See Note 3.
B83	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	150 SF	N/A	See Note 3.
B84	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	100 SF	N/A	See Note 3.
B85	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	15 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	150 SF	N/A	See Note 3.
B86	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	15 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	150 SF	N/A	See Note 3.
B87	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	15 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	150 SF	N/A	See Note 3.
B88	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	50 SF	N/A	See Note 3.
B89	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	50 SF	N/A	See Note 3.
B93	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	30 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	180 SF	N/A	See Note 3.
B94	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	8 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	100 SF	N/A	See Note 3.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
B95	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	150 SF	N/A	See Note 3.
B96	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	180 SF	N/A	See Note 3.
B97	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	260 SF	N/A	See Note 3.
B99	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	8 LF	Poor	---
B100	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	80 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	480 SF	N/A	See Note 3.
B101	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	550 SF	N/A	See Note 3.
B102	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	30 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
B103	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	550 SF	N/A	See Note 3.
B104	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	400 SF	N/A	See Note 3.
B105	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	125 SF	N/A	See Note 3.
B106	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	125 SF	N/A	See Note 3.
B109	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	550 SF	N/A	See Note 3.
B110	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	60 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	480 SF	N/A	See Note 3.
B111	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	220 SF	N/A	See Note 3.
B112	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	220 SF	N/A	See Note 3.
B113	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	50 SF	N/A	See Note 3.
B114	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	10 SF	N/A	See Note 3.
B115	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	20 SF	N/A	See Note 3.
B116	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	50 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	125 SF	N/A	See Note 3.
B118	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	40 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.50 CY	N/A	See Note 4.
B119	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	660 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	3.00 CY	N/A	See Note 4.
B121	Ebony/Transite with electrical box	---	ACM See Note 1.	1 SF	Fair	---
Entire Level	Concealed block and air-cell pipe insulation	---	ACM See Note 1.	500 LF	Unknown	See Note 8
Entire Level	Electrical wire insulation	---	ACM See Note 1.	15,000 LF	Unknown	See Note 7

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
Basement Mezzanine Level						
BM2	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	2 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	50 SF	N/A	See Note 3.
BM5	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
BM6	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	8 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	50 SF	N/A	See Note 3.
BM7	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	10 SF	N/A	See Note 3.
BM8	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	20 SF	N/A	See Note 3.
BM10	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	150 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	700 SF	N/A	See Note 3.
BM11	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	80 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	600 SF	N/A	See Note 3.
BM12	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	25 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
BM16	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	40 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	750 SF	N/A	See Note 3.
BM19	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	40 SF	N/A	See Note 3.
BM20	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	130 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	750 SF	N/A	See Note 3.
BM21	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	650 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	4.00 CY	N/A	See Note 4.
BM22	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	30 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	50 SF	N/A	See Note 3.
BM23	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	10 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	5 SF	N/A	See Note 3.
BM24	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	80 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	40 SF	N/A	See Note 3.
BM25	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	600 SF	N/A	See Note 3.
BM27	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.25 CY	N/A	See Note 4.
BM28	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	30 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	300 SF	N/A	See Note 3.
BM29	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	10 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
BM33	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	750 SF	N/A	See Note 3.
BM34	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.25 CY	N/A	See Note 4.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
BM36	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.25 CY	N/A	See Note 4.
BM37	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	460 SF	N/A	See Note 3.
BM38	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	40 SF	N/A	See Note 3.
BM39	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	200 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	1,100 SF	N/A	See Note 3.
BM43	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	1.00 CY	N/A	See Note 4.
BM45	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	50 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	290 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	1.00 CY	N/A	See Note 4.
BM48	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	380 SF	N/A	See Note 3.
BM49	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	10 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	15 SF	N/A	See Note 3.
BM50	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	25 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	25 SF	N/A	See Note 3.
BM51	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	320 SF	N/A	See Note 3.
BM52	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	25 SF	N/A	See Note 3.
BM53	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	45 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	360 SF	N/A	See Note 3.
BM54	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	30 SF	N/A	See Note 3.
BM56	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	260 SF	N/A	See Note 3.
BM58	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	300 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.50 CY	N/A	See Note 4.
BM59	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	25 LF	Poor	---
BM60	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	8 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	380 SF	N/A	See Note 3.
BM61	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	360 SF	N/A	See Note 3.
BM62	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	260 SF	N/A	See Note 3.
BM63	VAT & mastic	---	ACM See Note 1.	160 SF	Poor	---
BM64	Ebony/Transite with electrical box	---	ACM See Note 1.	1 SF	Fair	---
BM65	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	60 LF	Poor	---
BM65A	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	25 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.25 CY	N/A	See Note 4.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
BM66	VAT & mastic	—	ACM See Note 1.	1,450 SF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	1,450 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	—	ACM See Note 1.	0.75 CY	N/A	See Note 4.
BM67	VAT & mastic	—	ACM See Note 1.	160 SF	Poor	—
BM68	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	340 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	—	ACM See Note 1.	1.00 CY	N/A	See Note 4.
BM69	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	25 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	30 SF	N/A	See Note 3.
BM70	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	280 SF	N/A	See Note 3.
BM71	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	25 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	380 SF	N/A	See Note 3.
BM72	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	380 SF	N/A	See Note 3.
BM73	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	25 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	30 SF	N/A	See Note 3.
BM74	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	23 LF	Poor	—
BM75	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.
BM76	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	23 LF	Poor	—
BM77	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	380 SF	N/A	See Note 3.
BM78	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	25 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	30 SF	N/A	See Note 3.
BM79	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	23 LF	Poor	—
BM80	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.
BM81	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	23 LF	Poor	—
BM82	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	380 SF	N/A	See Note 3.
BM83	Block/air-cell pipe & joint insulation	—	ACM See Note 1.	12 LF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	15 SF	N/A	See Note 3.
BM85	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.
BM87	VAT & mastic	—	ACM See Note 1.	330 SF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	330 SF	N/A	See Note 3.
BM88	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	60 SF	N/A	See Note 3.
BM89	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	50 SF	N/A	See Note 3.
BM90	VAT & mastic	—	ACM See Note 1.	200 SF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	200 SF	N/A	See Note 3.
BM91	VAT & mastic	—	ACM See Note 1.	100 SF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	100 SF	N/A	See Note 3.
BM92	VAT & mastic	—	ACM See Note 1.	300 SF	Poor	—
	Loose ACM contaminated construction & household debris	—	ACM See Note 1.	300 SF	N/A	See Note 3.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
BM93	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	50 SF	N/A	See Note 3.
BM94	VAT & mastic	---	ACM See Note 1.	200 SF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	200 SF	N/A	See Note 3.
BM95	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	60 SF	N/A	See Note 3.
BM96	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	60 SF	N/A	See Note 3.
BM97	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	500 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	4.00 CY	N/A	See Note 4.
BM98	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	30 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	15 SF	N/A	See Note 3.
BM99	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	50 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	10 SF	N/A	See Note 3.
BM101	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	10 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.50 CY	N/A	See Note 4.
BM102	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	20 SF	N/A	See Note 3.
BM103	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	20 SF	N/A	See Note 3.
BM104	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	20 SF	N/A	See Note 3.
BM105	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.25 CY	N/A	See Note 4.
BM106	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	5 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.15 CY	N/A	See Note 4.
BM107	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	5 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.15 CY	N/A	See Note 4.
BM111	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	15 SF	N/A	See Note 3.
BM123	VAT & mastic	---	ACM See Note 1.	1,500 SF	Fair	See Note 5.
BM134	VAT & mastic	---	ACM See Note 1.	1,900 SF	Fair	See Note 5.
BM136	VAT & mastic	---	ACM See Note 1.	440 SF	Fair	See Note 5.
BM137	VAT & mastic	---	ACM See Note 1.	360 SF	Fair	See Note 5.
BM139	VAT & mastic	---	ACM See Note 1.	200 SF	Fair	See Note 5.
BM140	VAT & mastic	---	ACM See Note 1.	130 SF	Fair	See Note 5.
Entire Level	Concealed block and air-cell pipe insulation	---	ACM See Note 1.	1,000 LF	Unknown	See Note 8
Entire Level	Electrical wire insulation	---	ACM See Note 1.	10,000 LF	Unknown	See Note 7
Ground Level						
G1	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	750 SF	N/A	See Note 3.
G2	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	390 SF	N/A	See Note 3.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
G2	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	1.00 CY	N/A	See Note 4.
G3	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	25 SF	N/A	See Note 3.
G4	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	200 SF	N/A	See Note 3.
G5	Loose ACM contaminated construction & household debris	---	Assumed ACM --	100 SF	N/A	Inaccessible Space
G6	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	45 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.15 CY	N/A	See Note 4.
G8	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	130 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	2.00 CY	N/A	See Note 4.
G9	VAT & mastic	---	ACM See Note 1.	880 SF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	880 SF	N/A	See Note 3.
G10	VAT & mastic	---	ACM See Note 1.	120 SF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	120 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.50 CY	N/A	See Note 4.
G11	VAT & mastic	---	ACM See Note 1.	930 SF	Poor	---
G12	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	930 SF	Poor	---
G13	VAT & mastic	---	ACM See Note 1.	120 SF	Poor	---
G14	VAT & mastic	---	ACM See Note 1.	930 SF	N/A	See Note 6.
G15	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	550 SF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
G16	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	550 SF	Poor	---
	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	20 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
G19	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	870 SF	Poor	---
G20	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	890 SF	Poor	---
G22	VAT & mastic	---	ACM See Note 1.	870 SF	Poor	---
G23	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	870 SF	Poor	---
G24	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	780 SF	Poor	---
G25	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	150 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.50 CY	N/A	See Note 4.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
G28/29	Pipe insulation debris in chases	PID	ACM CHRY 1.5%	100 SF	N/A	---
G30	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	840 SF	N/A	See Note 3.
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	50.00 CY	N/A	See Note 4.
G41	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	35 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	N/A	See Note 3.
G42	Ebony/Transite with electrical box	---	ACM See Note 1.	50 SF	Fair	---
G43	Ebony/Transite with electrical box	---	ACM See Note 1.	50 SF	Fair	---
G44	Loose ACM contaminated construction & household debris	---	Assumed ACM --	20 CY	N/A	Inaccessible Space
G45	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	90 LF	Fair	---
	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	3.00 CY	N/A	See Note 4.
Entire Level	Concealed block and air-cell pipe insulation	---	ACM See Note 1.	2,500 LF	Unknown	See Note 8
Entire Level	Electrical wire insulation	---	ACM See Note 1.	15,000 LF	Unknown	See Note 7
Ground Level Mezzanine						
GM1	Wall panel glue	---	ACM See Note 1.	100 SF	Poor	---
GM2	Pipe insulation debris	---	ACM See Note 1.	50 SF	N/A	---
GM5	VAT & mastic	---	ACM See Note 1.	130 SF	Fair	---
GM8	VAT & mastic	---	ACM See Note 1.	130 SF	Fair	---
GM11	VAT & mastic	---	ACM See Note 1.	130 SF	Fair	---
GM13	Pipe insulation debris	---	ACM See Note 1.	5 SF	N/A	---
	VAT & mastic	---	ACM See Note 1.	420 SF	Poor	---
GM15	Pipe insulation debris	---	ACM See Note 1.	15 SF	N/A	---
	VAT & mastic	---	ACM See Note 1.	420 SF	Poor	---
GM16	VAT & mastic	---	ACM See Note 1.	130 SF	Poor	---
GM18	VAT & mastic	---	ACM See Note 1.	130 SF	Poor	---
GM19	Pipe insulation debris	---	ACM See Note 1.	50 SF	N/A	---
GM21	Wall panel glue	---	ACM See Note 1.	50 SF	Poor	---
	VAT & mastic	---	ACM See Note 1.	130 SF	Fair	---
GM22	VAT & mastic	---	ACM See Note 1.	130 SF	Poor	---
GM25	VAT & mastic	---	ACM See Note 1.	130 SF	Poor	---
Entire Level	Concealed block and air-cell pipe insulation	---	ACM See Note 1.	600 LF	Unknown	See Note 8
Entire Level	Electrical wire insulation	---	ACM See Note 1.	1,000 LF	Unknown	See Note 7
Second Floor						
202	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	50 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	360 SF	N/A	See Note 3.
202A	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	360 SF	N/A	See Note 3.
204	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	40 LF	Poor	---
	VAT & mastic	---	ACM See Note 1.	650 SF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	650 SF	N/A	See Note 3.
207	VAT & mastic	---	ACM See Note 1.	2,200 SF	Poor	---
	Mirror glue	---	ACM See Note 1.	20 SF	Poor	---
	Wall panel glue	---	ACM See Note 1.	1,600 SF	Poor	---
209	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	125 SF	N/A	See Note 3.
	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	6 LF	Poor	---

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
210	Bags with ACM contaminated construction & household debris	---	ACM See Note 1.	0.10 CY	N/A	See Note 4.
211	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	510 SF	Poor	See Note 3.
212	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	510 SF	Poor	See Note 3.
213	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	500 SF	N/A	See Note 3.
214	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	25 SF	N/A	See Note 3.
215	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	530 SF	Poor	See Note 3.
216	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	600 SF	Poor	See Note 3.
217	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	9 LF	Poor	---
218	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	390 SF	Poor	See Note 3.
219	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	400 SF	Poor	See Note 3.
220	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	9 LF	Poor	---
222	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	390 SF	Poor	See Note 3.
223	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	390 SF	Poor	See Note 3.
225	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	9 LF	Poor	---
226	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	390 SF	Poor	See Note 3.
227/ 228	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	510 SF	Poor	See Note 3.
232	Ebony/Transite with electrical box	---	ACM See Note 1.	10 SF	Fair	---
Entire Level	Concealed block and air-cell pipe insulation	---	ACM See Note 1.	1,500 LF	Unknown	See Note 8
Entire Level	Electrical wire insulation	---	ACM See Note 1.	3,000 LF	Unknown	See Note 7
Third Floor						
302	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	Poor	See Note 3.
305	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	600 SF	Poor	See Note 3.
307	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	450 SF	Poor	See Note 3.
310	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	140 LF	Poor	---
	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	1,400 SF	Poor	See Note 3.

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
311	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	25 SF	Poor	See Note 3.
313	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	450 SF	Poor	See Note 3.
315	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	480 SF	Poor	See Note 3.
316	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	200 SF	Poor	See Note 3.
318	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	100 SF	Poor	See Note 3.
319	Pipe insulation debris	---	ACM See Note 1.	60 SF	N/A	---
318	VAT & mastic (damaged) & ACM contaminated construction & household debris	---	ACM See Note 1.	150 SF	Poor	See Note 3.
Entire Level	Concealed block and air-cell pipe insulation	---	ACM See Note 1.	400 LF	Unknown	See Note 8
Entire Level	Electrical wire insulation	---	ACM See Note 1.	1,000 LF	Unknown	See Note 7
Forth Floor						
401	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	25 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	400 SF	N/A	See Note 3.
402	Block/air-cell pipe & joint insulation	---	ACM See Note 1.	25 LF	Poor	---
	Loose ACM contaminated construction & household debris	---	ACM See Note 1.	400 SF	N/A	See Note 3.
Entire Level	Concealed block and air-cell pipe insulation	---	ACM See Note 1.	100 LF	Unknown	See Note 8
Entire Level	Electrical wire insulation	---	ACM See Note 1.	200 LF	Unknown	See Note 7
Fifth Floor						
Entire Level	Electrical wire insulation	---	ACM See Note 1.	50 LF	Unknown	See Note 7
Exterior (Gable Ends, Clerestory Bands and Parapets)						
--	Mastic, flashing materials and caulking on gable ends and clerestory bands	---	ACM See Note 1.	12,000 SF	Unknown	See Note 9.
NON-ACM IDENTIFIED						
Sub-Basement						
Entire Level	Wall plaster	WP	Non-ACM See Note 10.	-- --	Poor	Throughout
SB7	Boiler Lining (small square boilers)	BLN	Non-ACM ND	-- --	Poor	---
Entire Level	New mud-pack pipe joint insulation associated w/ fiberglass	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
SB7	Boiler gasket	---	Non-ACM See Note 2.	-- --	Poor	---
SB7	Boiler edge patch material	---	Non-ACM See Note 2.	-- --	Poor	---
SB7 SB10	Breeching insulation	---	Non-ACM See Note 2.	-- --	Poor	---
Basement Level						
Entire Level	Wall plaster and ceiling plaster	WP CP	Non-ACM See Note 10.	-- --	Poor	Throughout

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
Entire Level	Electric arc protecting shield with new electrical panels	EAP	Non-ACM ND	-- --	Fair	Select Locations
Entire Level	New mud-pack pipe joint insulation associated w/ fiberglass	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Sheetrock wallboard and joint compound	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Vibration dumper cloth	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Entire Level	Pressboard material	---	Non-ACM See Note 2.	-- --	Poor	Select Locations
Entire Level	Electric panel board with new panels	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Entire Level	Cove base and associated mastic	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Entire Level	Pyroblock	---	Non-ACM See Note 2.	-- --	Unknown	Scattered Locations
Basement Mezzanine Level						
Entire Level	Wall plaster and ceiling plaster	WP CP	Non-ACM See Note 10.	-- --	Poor	Throughout
Entire Level	Electric arc protecting shield with new electrical panels	EAP	Non-ACM ND	-- --	Fair	Select Locations
Entire Level	New mud-pack pipe joint insulation associated w/ fiberglass	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Sheetrock wallboard and joint compound	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Vibration dumper cloth	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Entire Level	Pressboard material	---	Non-ACM See Note 2.	-- --	Poor	Select Locations
Entire Level	Electric panel board with new panels	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Entire Level	Cove base and associated mastic	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Entire Level	Pyroblock	---	Non-ACM See Note 2.	-- --	Unknown	Scattered Locations
Ground Level						
G1/G2	Pipe joint insulation in chases	PJ1	Non-ACM ND	-- --	Poor	---
G4	12-inch ceiling tile	CT	Non-ACM ND	-- --	Poor	---
	Glue to ceiling tile	CGD	Non-ACM ND	-- --	Poor	---
G4 G5	Window glazing putty	WGP	Non-ACM ND	-- --	Fair	---
G18	Red cementitious floor material	CFM	Non-ACM ND	-- --	Good	---
G31 thru 39	Pipe joint insulation	PJ2	Non-ACM ND	-- --	Poor	---
Entire Level	Wall plaster and ceiling plaster	WP CP	Non-ACM See Note 10.	-- --	Poor	Throughout
Entire Level	Electric arc protecting shield with new electrical panels	EAP	Non-ACM ND	-- --	Fair	Select Locations
Entire Level	New mud-pack pipe joint insulation associated w/ fiberglass	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Sheetrock wallboard and joint compound	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Vibration dumper cloth	---	Non-ACM See Note 2.	-- --	Fair	Select Locations

	Table 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS - ACM IDNETIFIED					
Space ID	Material	Sample ID	Survey Results	Estimated Quantity of ACM	Condition	Notes/Comments
Entire Level	Electric panel board with new panels	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Entire Level	Cove base and associated mastic	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Ground Mezzanine Level						
Entire Level	Wall plaster and ceiling plaster	WP CP	Non-ACM See Note 10.	-- --	Poor	Throughout
Entire Level	Sheetrock wallboard and joint compound	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Cove base and associated mastic	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Second Floor						
213	Red cementitious floor material	CFM	Non-ACM ND	-- --	Good	---
Entire Level	Wall plaster and ceiling plaster	WP CP	Non-ACM See Note 10.	-- --	Poor	Throughout
Entire Level	Sheetrock wallboard and joint compound	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Cove base and associated mastic	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Third Floor						
Entire Level	Wall plaster and ceiling plaster	WP CP	Non-ACM See Note 10.	-- --	Poor	Throughout
Entire Level	Sheetrock wallboard and joint compound	---	Non-ACM See Note 2.	-- --	Poor	Scattered Locations
Entire Level	Cove base and associated mastic	---	Non-ACM See Note 2.	-- --	Fair	Select Locations
Fourth Floor						
Entire Level	Black coating on brick wall under plaster	WCM	Non-ACM ND	-- --	Poor	---
Entire Level	Wall plaster and ceiling plaster	WP CP	Non-ACM See Note 10.	-- --	Poor	Throughout

NOTES:

1 ACM as per Langan Asbestos Investigation Report dated September 25, 2008.

2 Non-ACM as per Langan Asbestos Investigation Report dated September 25, 2008.

3 With the exception of the ground level Drill Area, debris from damaged ACM mixed with other household debris and damaged paint was throughout the Armory.

4 Black bags filled with asbestos contaminated construction & household debris were identified at several locations, all bags in the building shall be assumed ACM contaminated.

5 Multi-layers of floor tile/covering and mastic were observed at isolated locations. At the eastern section of the Basement Mezzanine, ACM floor tiles and mastic were observed covered with a layer of plywood and non-ACM floor tiles.

6 This area was renovated , however, old ACM floor tiles as identified in 2008 Langan Report may exist under new flooring.

7 Provided quantity reflects an approximate length of electrical conduits exposed and concealed within wall, floor and ceiling cavities throughout the floor. The size and number of wires within the conduits may vary.

8 An estimate is provided for the presence of concealed ACM pipe insulation within inaccessible wall, floor, and ceiling cavities.

9 The estimated quantity reflects area occupied by the panels. The information related to ACM within the gable areas is based on the data documented in prior survey reports. Due to height restrictions, the gable areas were inaccessible during Langan surveys.

10 Non-ACM as per Langan Asbestos Investigation Report dated September 25, 2008. Confirmatory sampling was performed during recent survey. Laboratory test results confirmed wall and ceiling plaster to be non-ACM.

Table 2 - XRF SCREENING RESULTS								
Survey ID #	Component	Substrate	Color	Test Location		Total Lead mg/cm^2	Results	Comments
				Floor	Area			
N/A	Calibration					1.00		---
N/A	Calibration					0.90		
N/A	Calibration					0.90		
1	**Wall**	**Plaster**	**White**	**2nd**	**Space 213**	**34.00**	**POSITIVE**	**Poor**
2	Truss/Column	Metal	Grey	2nd	Space 232	0.90	NEGATIVE	Fair to Good
3	**Truss/Column**	**Metal**	**Grey**	**2nd**	**Space 232**	**19.60**	**POSITIVE**	**Fair to Good**
4	**Truss/Column**	**Metal**	**Grey**	**2nd**	**Space 232**	**4.20**	**POSITIVE**	**Fair to Good**
5	**Handrail**	**Metal**	**Grey**	**2nd**	**Space 232**	**8.20**	**POSITIVE**	**Fair to Good**
6	Wall	Brick	Grey	2nd	Space 232	0.10	NEGATIVE	Poor
7	Wall	Brick	Grey	2nd	Space 232	-0.10	NEGATIVE	Poor
8	**Handrail**	**Metal**	**Grey**	**2nd**	**Space 232**	**5.70**	**POSITIVE**	**Fair to Good**
9	Wall	Brick	Grey	2nd	Space 232	0.00	NEGATIVE	Poor
10	Wall	Brick	Grey	2nd	Space 232	0.30	NEGATIVE	Poor
11	**Pipe insulation**	**Canvas**	**Green**	**2nd**	**Space 232**	**1.90**	**POSITIVE**	**Fair to Good**
12	**Truss/Column**	**Metal**	**Grey**	**2nd**	**Space 232**	**2.20**	**POSITIVE**	**Fair to Good**
13	Conduit	Metal	Lt.Green	2nd	Space 232	0.30	NEGATIVE	Good
14	**Beam**	**Metal**	**Beige**	**2nd**	**Space 232**	**8.70**	**POSITIVE**	**Poor**
15	**Stair**	**Metal**	**Grey**	**2nd**	**Space 232**	**8.10**	**POSITIVE**	**Poor**
16	**Radiator**	**Metal**	**Silver**	**2nd**	**Space 232**	**8.50**	**POSITIVE**	**Fair to Good**
17	**Wall**	**Plaster**	**Tan**	**2nd**	**Space 231**	**37.00**	**POSITIVE**	**Poor**
18	**Wall**	**Plaster**	**Grey**	**2nd**	**Space 231**	**39.00**	**POSITIVE**	**Poor**
19	**Ceiling**	**Plaster**	**Grey**	**2nd**	**Space 213**	**40.00**	**POSITIVE**	**Poor**
20	**Wall**	**Plaster**	**Tan**	**2nd**	**Space 206**	**15.60**	**POSITIVE**	**Poor**
21	**Wall**	**Plaster**	**Grey**	**2nd**	**Space 213**	**43.00**	**POSITIVE**	**Poor**
22	**Wall**	**Plaster**	**Grey**	**3rd**	**Space 313**	**40.00**	**POSITIVE**	**Poor**
23	**Frame (Door)**	**Wood**	**Grey**	**3rd**	**Space 313**	**38.00**	**POSITIVE**	**Poor**
24	**Door**	**Wood**	**Grey**	**3rd**	**Space 313**	**41.00**	**POSITIVE**	**Poor**
25	**Wall**	**Plaster**	**Beige**	**1st**	**Sapce G18**	**40.00**	**POSITIVE**	**Poor**
26	**Ceiling**	**Plaster**	**Beige**	**1st**	**Sapce G18**	**39.00**	**POSITIVE**	**Poor**
27	Door	Wood	Varnish	1st	Sapce G18	0.00	NEGATIVE	Fair to Good
28	Frame (Door)	Wood	Varnish	1st	Sapce G18	-0.30	NEGATIVE	Fair to Good
29	**Wall**	**Brick**	**Brown**	**1st**	**Sapce G45**	**13.50**	**POSITIVE**	**Fair to Good**
30	**Wall**	**Brick**	**Beige**	**1st**	**Sapce G45**	**6.60**	**POSITIVE**	**Poor**
31	**Wall**	**Brick**	**Brown**	**1st**	**Sapce G45**	**1.30**	**POSITIVE**	**Fair to Good**
32	Wall	Brick	Tan	1st	Sapce G45	0.00	NEGATIVE	Fair to Good
33	**Wall**	**Brick**	**Tan**	**1st**	**Sapce G45**	**4.60**	**POSITIVE**	**Fair to Good**
34	**Floor**	**Concrete**	**Yellow**	**1st**	**Sapce G45**	**12.80**	**POSITIVE**	**Fair to Good**
35	**Bollard**	**Metal**	**Yellow**	**1st**	**Sapce G45**	**5.10**	**POSITIVE**	**Good**
36	**Bollard**	**Metal**	**Yellow**	**1st**	**Sapce G45**	**2.80**	**POSITIVE**	**Good**
37	**Ceiling**	**Plaster**	**Beige**	**BMez**	**Sapce BM65**	**31.00**	**POSITIVE**	**Poor**
38	**Wall**	**Plaster**	**Grey**	**BMez**	**Sapce BM65**	**32.00**	**POSITIVE**	**Poor**
39	Door	Metal	Grey	BMez	Sapce BM65	0.80	NEGATIVE	Poor
40	**Frame (Door)**	**Metal**	**Grey**	**BMez**	**Sapce BM65**	**4.80**	**POSITIVE**	**Poor**
41	**Door**	**Wood**	**Green**	**BMez**	**Sapce BM64**	**2.00**	**POSITIVE**	**Poor**
42	**Frame (Door)**	**Wood**	**Green**	**BMez**	**Sapce BM64**	**1.70**	**POSITIVE**	**Poor**
43	**Column**	**Metal**	**Grey**	**BMez**	**Sapce BM114**	**25.40**	**POSITIVE**	**Poor**
44	**Column**	**Metal**	**White**	**BMez**	**Sapce BM114**	**25.80**	**POSITIVE**	**Poor**
45	**Wall**	**Brick**	**Grey**	**BMez**	**Sapce BM114**	**26.40**	**POSITIVE**	**Poor**
46	Wall	Brick	Tan	BMez	Sapce BM114	0.20	NEGATIVE	Poor
47	Wall	Brick	Tan	BMez	Sapce BM114	0.50	NEGATIVE	Poor
48	Ceiling	Plaster	Beige	BMez	Sapce BM114	-0.20	NEGATIVE	Poor
49	**Wall**	**Brick**	**Green**	**BMez**	**Sapce BM36**	**1.80**	**POSITIVE**	**Poor**
50	Column	Concrete	Tan	BMez	Sapce BM23	0.30	NEGATIVE	Poor
51	**Column**	**Concrete**	**Tan**	**BMez**	**Sapce BM23**	**42.00**	**POSITIVE**	**Poor**
52	**Wall**	**Brick**	**Tan**	**BMez**	**Sapce BM22**	**33.00**	**POSITIVE**	**Poor**
53	Wall	Brick	Grey	BMez	Sapce BM16	0.30	NEGATIVE	Poor
54	**Door**	**Metal**	**Green**	**BMez**	**Sapce BM10**	**19.00**	**POSITIVE**	**Poor**
55	**Column**	**Metal**	**Tan**	**BMez**	**Sapce BM10**	**27.20**	**POSITIVE**	**Poor**
56	Wall	Brick	Lt.Green	BMez	Sapce BM4	0.20	NEGATIVE	Poor
57	**Column**	**Concrete**	**Grey**	**BMez**	**Sapce BM1**	**2.20**	**POSITIVE**	**Poor**
58	**Column**	**Metal**	**Orange**	**Bsmt**	**Sapce B67**	**23.40**	**POSITIVE**	**Poor**
59	**Column**	**Metal**	**Yellow**	**Bsmt**	**Sapce B01**	**29.80**	**POSITIVE**	**Poor**
60	**Ramp**	**Wood**	**Yellow**	**Bsmt**	**Sapce B01**	**26.90**	**POSITIVE**	**Poor**
61	**Column**	**Metal**	**Yellow**	**Bsmt**	**Sapce B01**	**9.60**	**POSITIVE**	**Poor**
62	**Column**	**Metal**	**Orange**	**Bsmt**	**Sapce B01**	**18.90**	**POSITIVE**	**Poor**
63	**Beam**	**Metal**	**Orange**	**Bsmt**	**Sapce B01**	**10.80**	**POSITIVE**	**Poor**
64	**Door**	**Wood**	**Green**	**Bsmt**	**Sapce B01**	**16.80**	**POSITIVE**	**Poor**
65	**Frame (Door)**	**Wood**	**Green**	**Bsmt**	**Sapce B01**	**32.00**	**POSITIVE**	**Poor**
66	**Air Duct**	**Metal**	**Orange**	**Bsmt**	**Sapce B57**	**13.70**	**POSITIVE**	**Fair to Good**
67	**Air Duct**	**Metal**	**Orange**	**Bsmt**	**Sapce B01**	**5.00**	**POSITIVE**	**Fair to Good**

Table 2 - XRF SCREENING RESULTS								
Survey ID #	Component	Substrate	Color	Test Location		Total Lead mg/cm^2	Results	Comments
				Floor	Area			
68	**Wall**	**Plaster**	**Tan**	**Bsmt**	**Sapce B43**	**2.60**	**POSITIVE**	**Poor**
69	**Wall**	**Plaster**	**Tan**	**Bsmt**	**Sapce B43**	**21.20**	**POSITIVE**	**Poor**
70	**Ceiling**	**Plaster**	**Tan**	**Bsmt**	**Sapce B58**	**21.40**	**POSITIVE**	**Poor**
71	Wall	Brick	Red	Bsmt	Sapce B45	-0.10	NEGATIVE	Poor
72	Wall	Brick	Tan	Bsmt	Sapce B45	0.00	NEGATIVE	Poor
73	**Wall**	**Brick**	**Tan**	**Bsmt**	**Sapce B77**	**47.00**	**POSITIVE**	**Poor**
74	Column	Plaster	Tan	Bsmt	Sapce B77	-0.30	NEGATIVE	Poor
75	**Stair**	**Metal**	**Grey**	**Bsmt**	**Sapce B54**	**16.30**	**POSITIVE**	**Poor**
76	**Wall**	**Plaster**	**Blue**	**Bsmt**	**Sapce B79**	**30.00**	**POSITIVE**	**Poor**
77	**Wall**	**Brick**	**Grey**	**Bsmt**	**Sapce B38**	**12.30**	**POSITIVE**	**Poor**
78	**Column**	**Metal**	**Grey**	**Bsmt**	**Sapce B38**	**28.50**	**POSITIVE**	**Poor**
79	**Wall**	**Brick**	**Blue**	**Bsmt**	**Sapce B35**	**4.10**	**POSITIVE**	**Poor**
80	**Floor**	**Concrete**	**Grey**	**Bsmt**	**Sapce B35**	**1.50**	**POSITIVE**	**Poor**
81	**Wall**	**Concrete**	**Grey**	**Bsmt**	**Sapce B38**	**3.50**	**POSITIVE**	**Poor**
82	**Wall**	**Brick**	**White**	**Bsmt**	**Sapce B31**	**2.10**	**POSITIVE**	**Poor**
83	Wall	Brick	Green	Bsmt	Sapce B38	-0.10	NEGATIVE	Fair to Good
84	Wall	Brick	Red	Bsmt	Sapce B38	-0.20	NEGATIVE	Fair to Good
85	Wall	Brick	Silver	Bsmt	Sapce B38	-0.20	NEGATIVE	Fair to Good
86	**Wall**	**Brick**	**Grey**	**Bsmt**	**Sapce B38**	**1.70**	**POSITIVE**	**Poor**
87	Wall	Wood	Tan	Bsmt	Sapce B121	0.00	NEGATIVE	Fair to Good
88	Wall	Brick	White	Bsmt	Sapce B121	0.00	NEGATIVE	Fair to Good
89	Wall	Brick	Tan	Bsmt	Sapce B121	0.10	NEGATIVE	Fair to Good
N/A	Calibration					0.90		
N/A	Calibration					0.90		---
N/A	Calibration					1.10		

NEGATIVE	= Negative Lead Result
POSITIVE	= Positive Lead Result

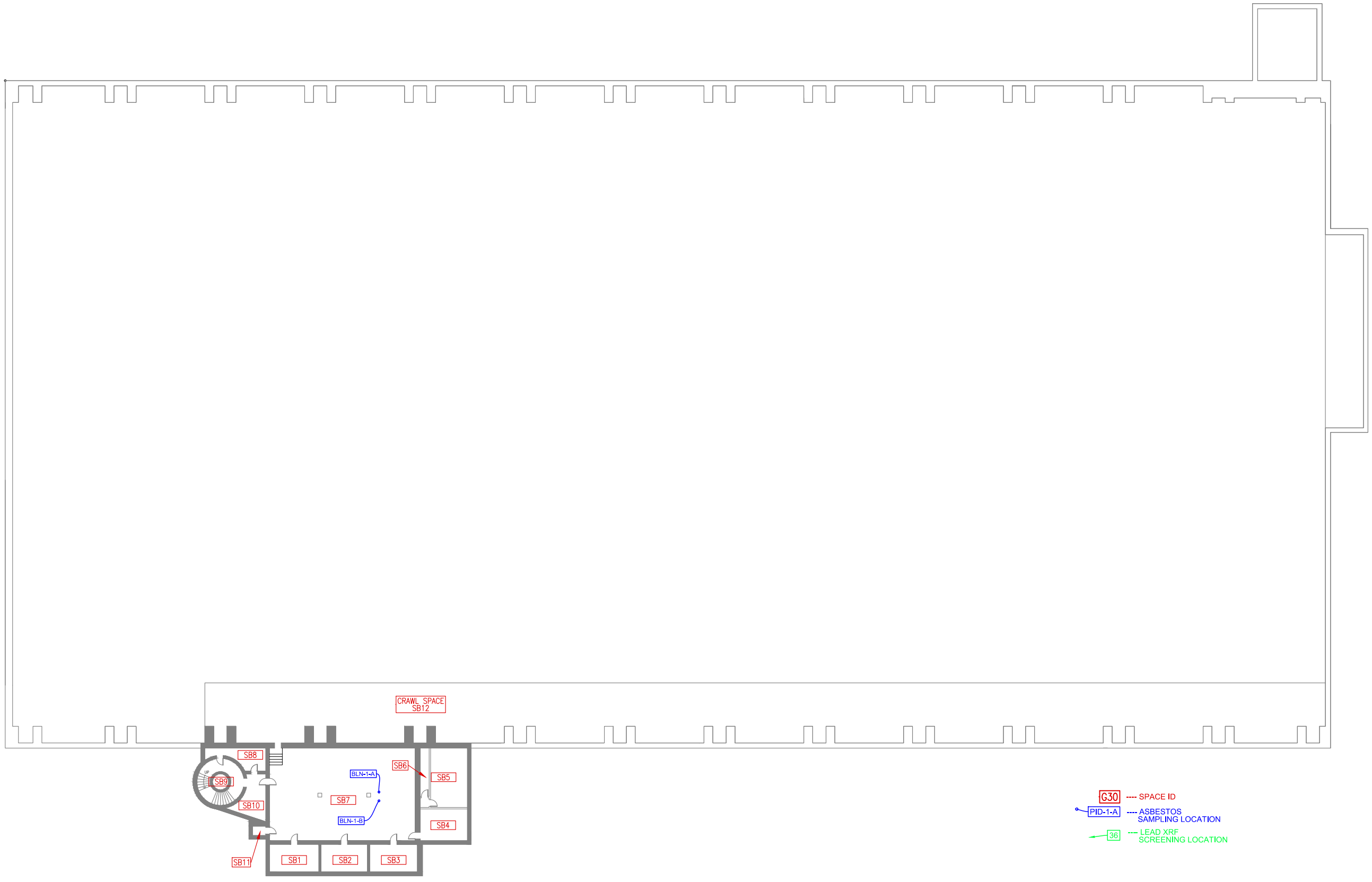
<LOD = Less than level of detection

Table 3 - UNIVERSAL/HAZARDOUS WASTE INVENTORY							
Article/Device	**Approximate Quantity [Units]**						
	Sub-Basement	**Basement**	**Basement Mezzanine**	**Ground Level**	**Ground Mezzanine**	**Second Floor**	**Third Floor**
UNIVERSAL WASTE GROUP							
Fluorescent lamps	50	1,000	1,400	250	50	350	2
Emergency lights with Batteries	--	7	30	10	--	--	--
Batteries	--	5	--	7	--	--	--
MCE Thermostats/Gauges	9	1	--	--	--	--	--
HID, MVC, HPS, MH lamps	--	6	--	13	--	--	--
Compact Fluorescent Lamp (CFL)	--	--	--	10	5	--	--
Mercury light ballasts	--	--	--	72	--	--	--
WASTE CONTAINING RADIOACTIVE MATERIALS* GROUP							
Smoke detectors	--	--	30	--	--	--	--
Exit signs	--	10	10	12	--	20	--
PCBs CONTAING WASTE* GROUP							
Fluorescent Light Ballasts	25	450	690	150	25	70	4
Electric motors with capacitors that may contain PCBs (associated with pumps, fans, shutter door openers, etc.)	12	11	--	7	--	--	--
Electronic equipment containing circuit boards with capacitors such as Computers and Peripherals, Telephones, TVs, etc.	--	--	--	30	10	--	--
Wall mounted electronic devices containing circuit boards with capacitors	--	20	20	--	--	--	--
WASTE CONTAINING CFCs and/or HCFCs* GROUP							
Refrigerator/Water Fountain	1	2	--	2	--	--	--
MIXED HAZARDOUS WASTE GROUP							
Fire extinguishers	1	5	10	--	--	1	2
Chemicals (Bottles/Cans)	--	--	--	--	5	--	10
Paint (5-Gallon Bucket) - Old unknown content	--	--	70	--	--	--	--

* - Due to live electricity and building's operations the ballasts associated with the light fixtures and other electrical devices are assumed to contain PCBs; EXIT signs and smoke detectors are assumed to contain radioactive materials; and heat transformer systems are assumed to contain CFCs and/or HCFCs.

MCE - Mercury-Containing Equipment; HID - High Intensity Discharge; MVC - Mercury Vapor Containing; HPS - High Pressure Sodium; MH - Metal Halide; CFCs - Chlorodifluoromethanes (R-12); HCFCs - Hydrofluorocarbons (R-22)

DRAWINGS



1 / ASL-1 SUB-BASEMENT
SCALE N.T.S

GENERAL NOTES:

A. THIS PLAN IS PROVIDED TO SHOW APPROXIMATE SAMPLING LOCATIONS. THE ACTUAL LAYOUT OF THE BUILDING AND BUILDING EQUIPMENT MAY BE SLIGHTLY DIFFERENT THAN SHOWN.

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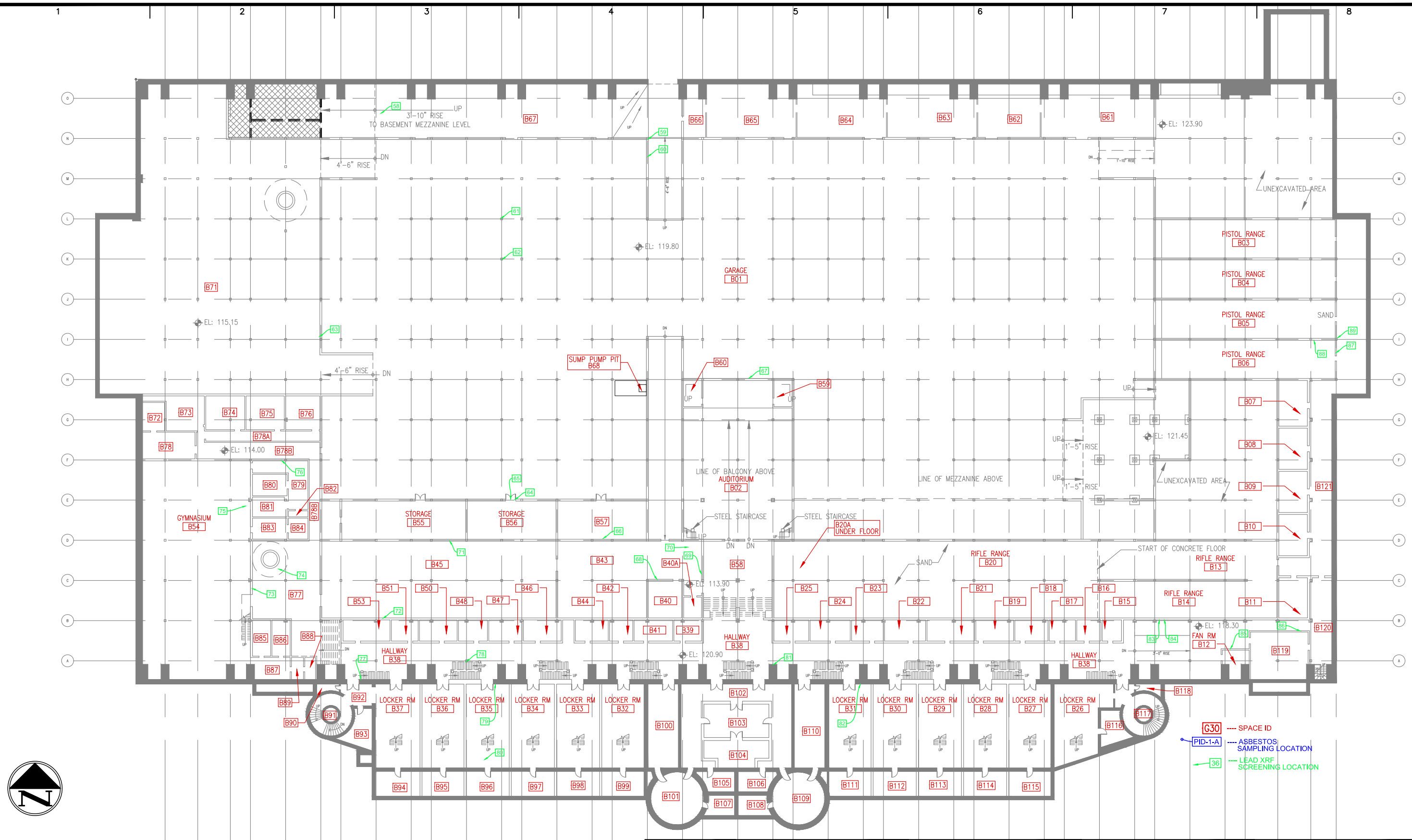
Project
Kingsbridge Armory
1 West Kingsbridge Rd
BRONX NEW YORK

Drawing Title
SPACE IDs
ASBESTOS SAMPLING
AND LEAD XRF
SCREENING LOCATIONS

Project No. 170321307
Date 2019-11-4
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1 / ASL-2 BASEMENT

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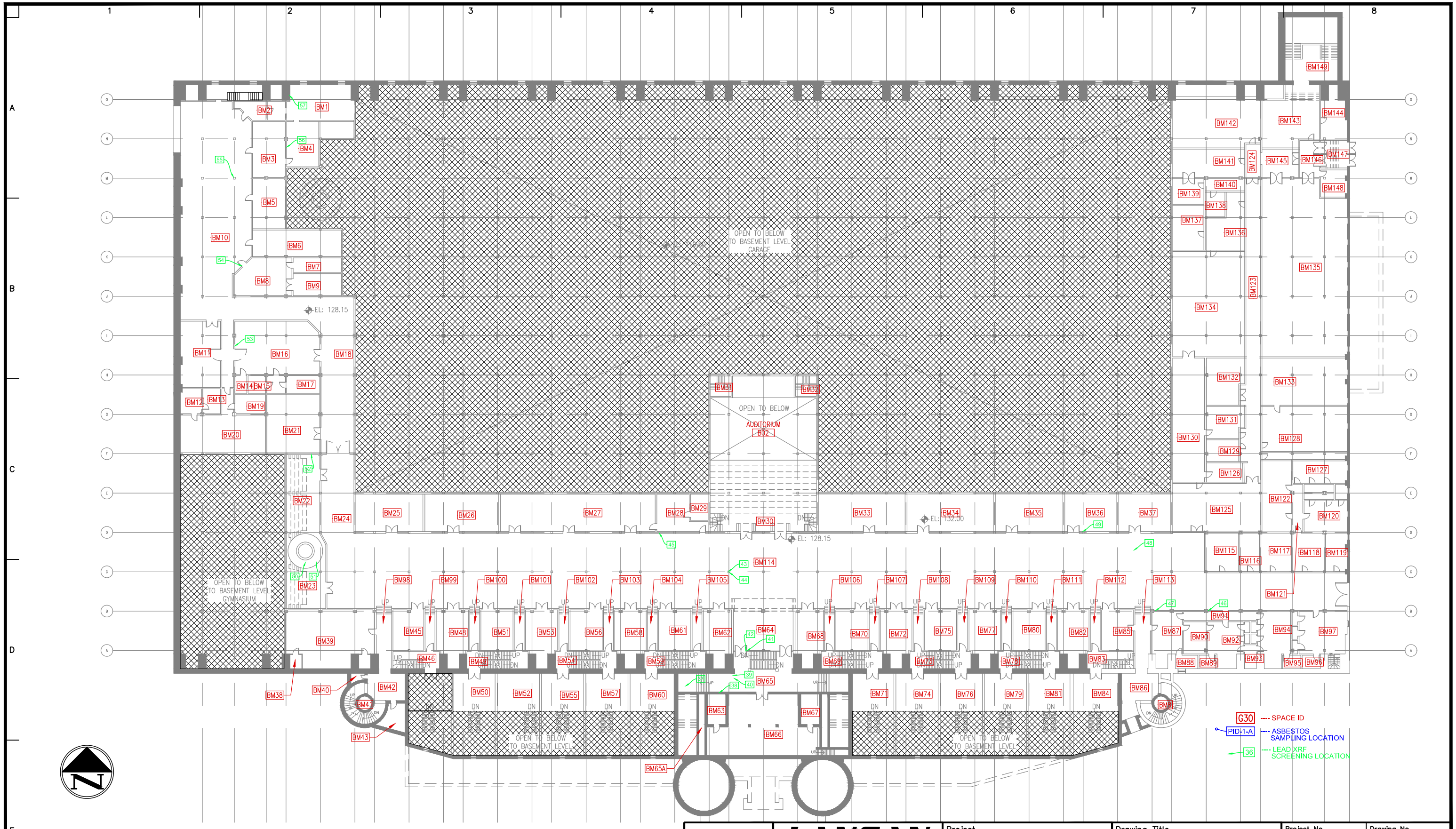
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1 ASL-3

BASEMENT MEZZANINE

SCALE N.T.S

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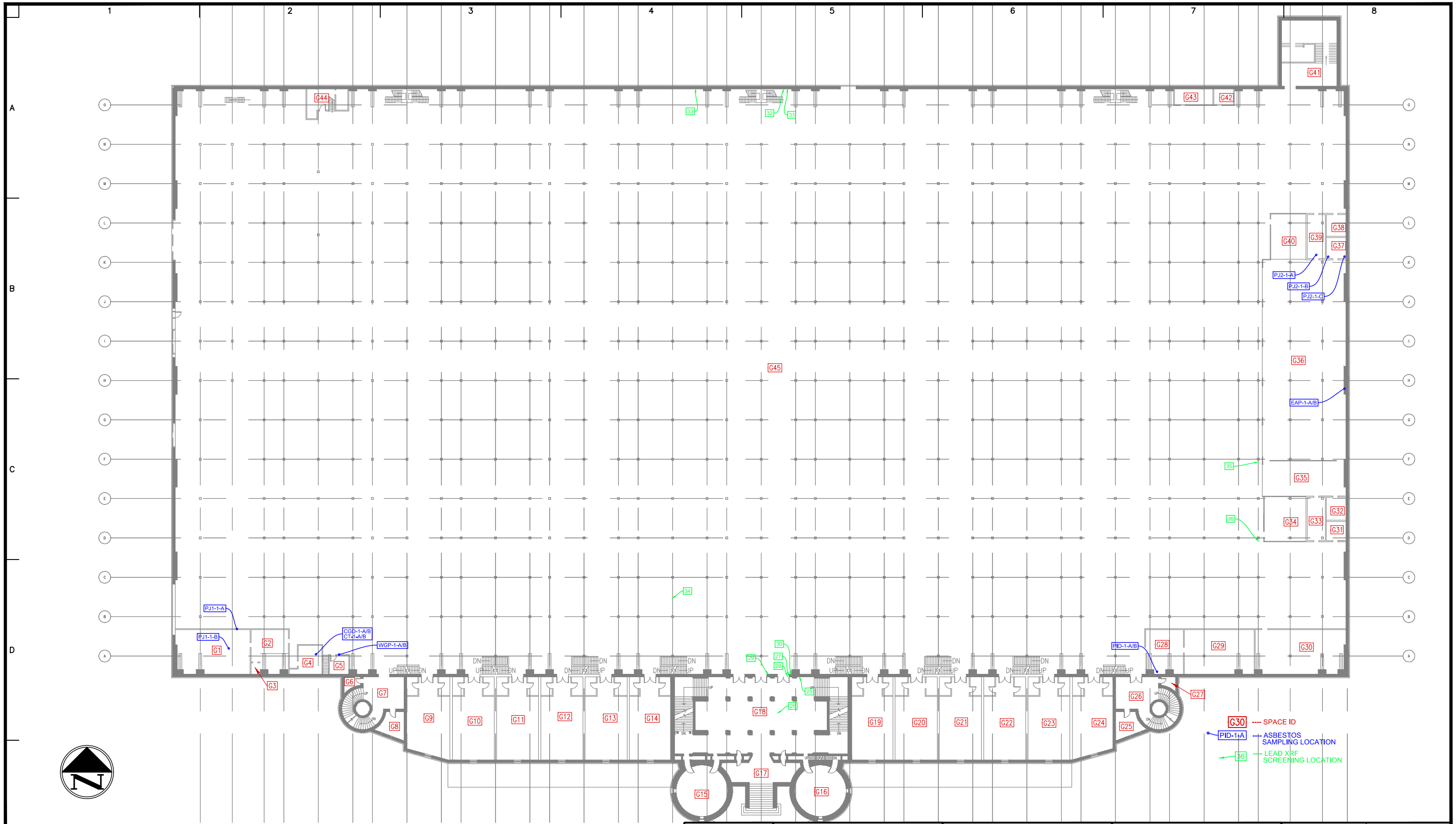
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1 / ASL-4 GROUND LEVEL

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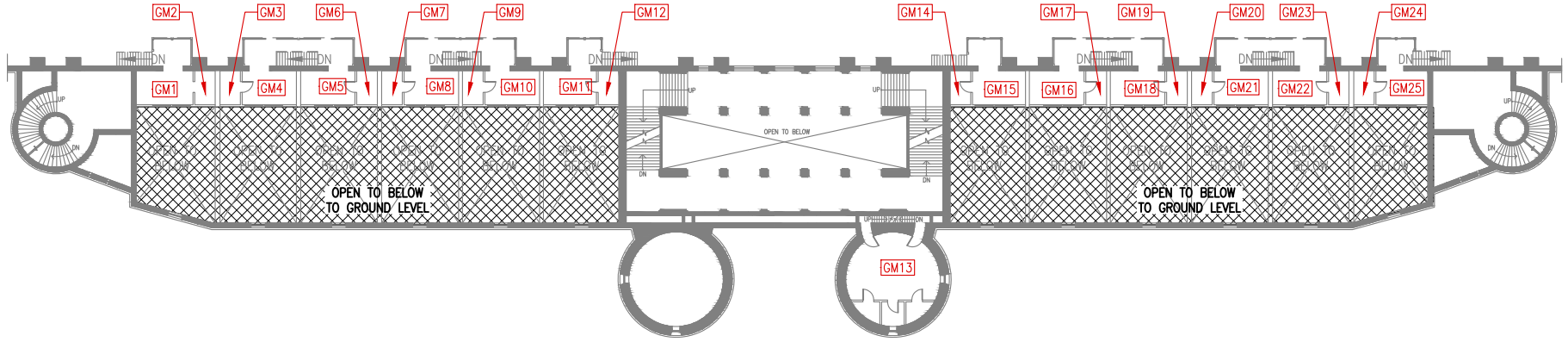
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G30 ---- SPACE ID

PID-1-A ---- ASBESTOS SAMPLING LOCATION

36 ---- LEAD XRF SCREENING LOCATION

N

1
ASL-5

GROUND MEZZANINE

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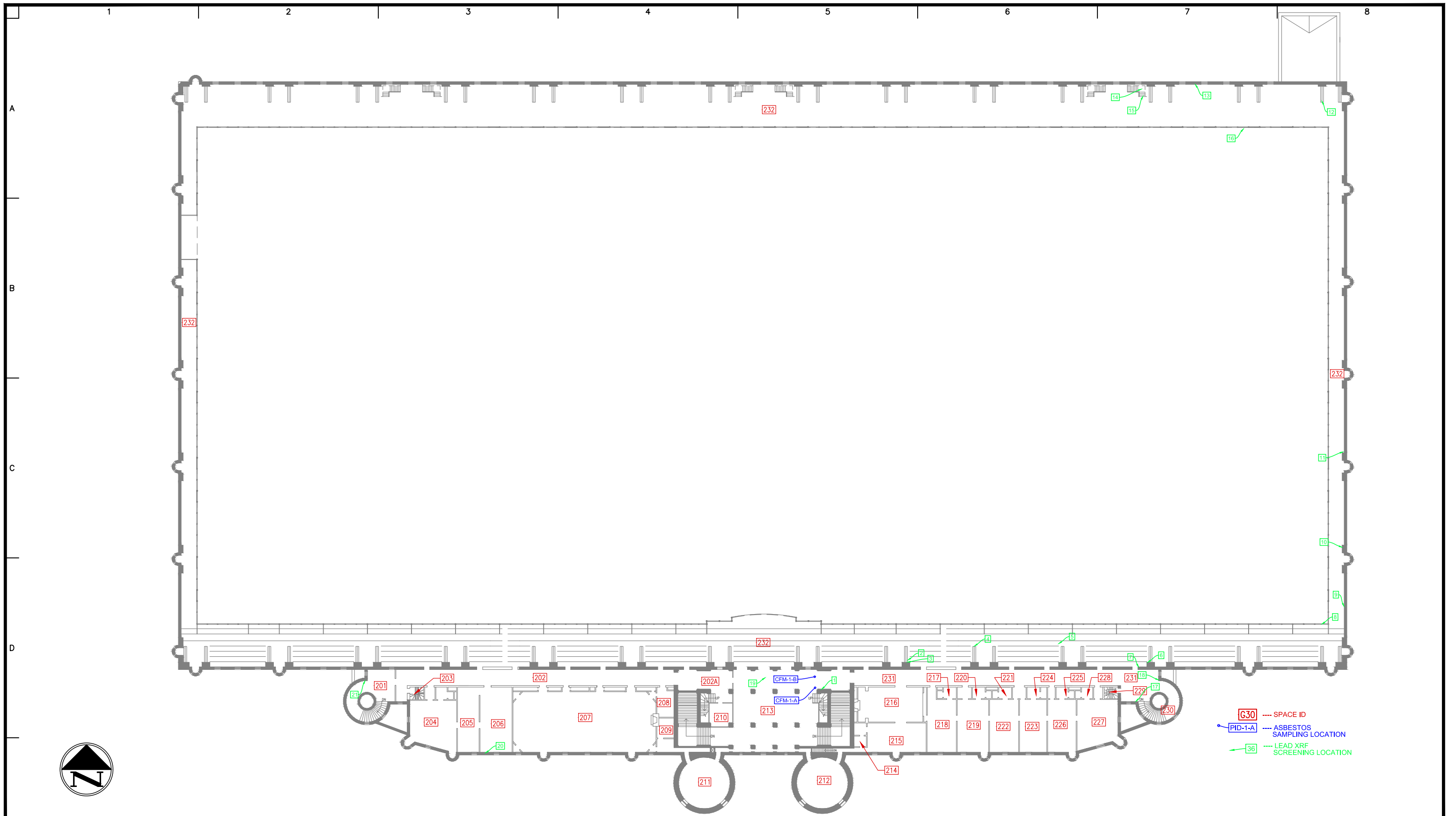
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1 ASL-6 SECOND LEVEL

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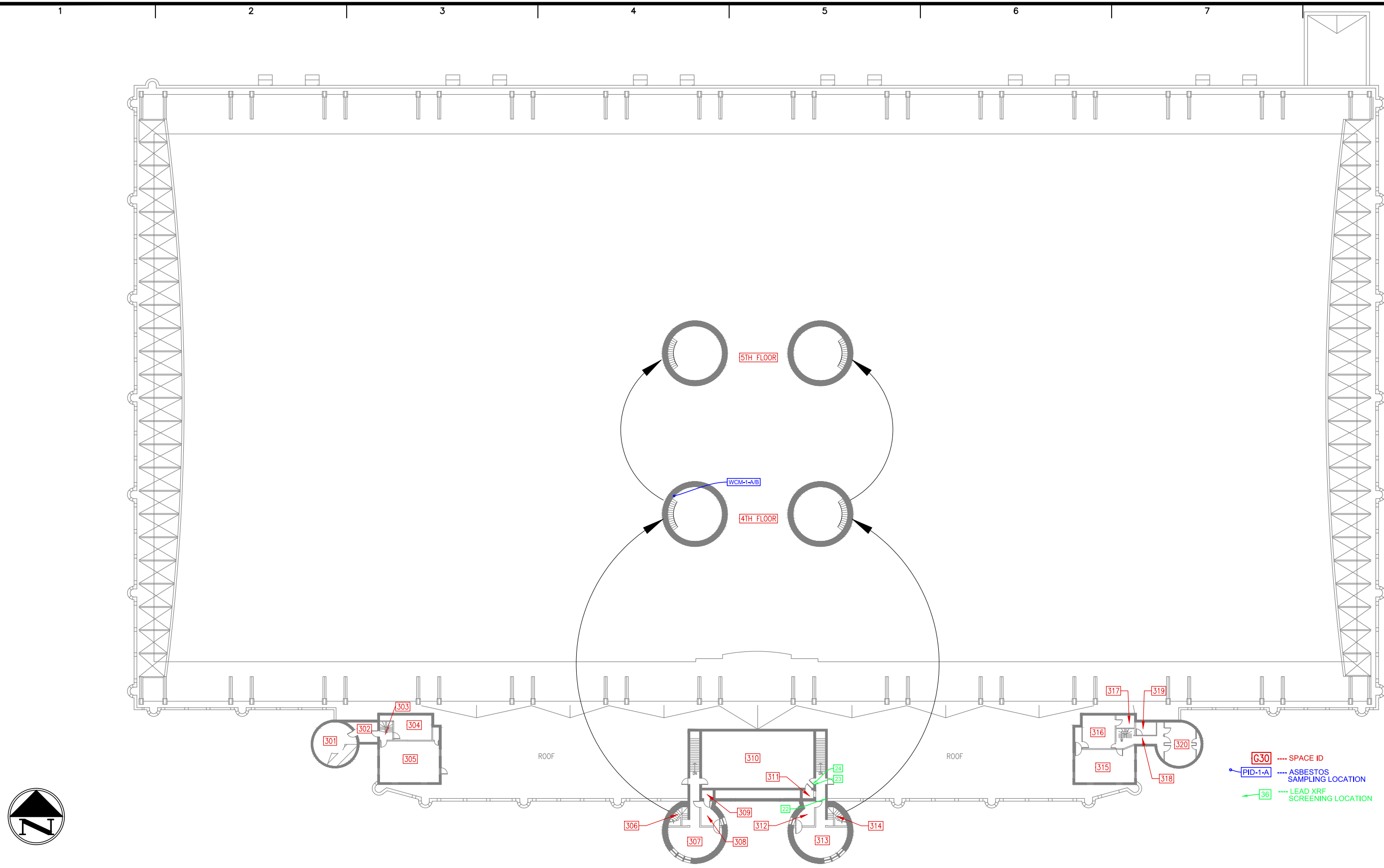
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Drawing Title
SPACE IDs
ASBESTOS SAMPLING
AND LEAD XRF
SCREENING LOCATIONS

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1 / ASL-7 THIRD LEVEL (+ 4TH AND 5TH LEVELS)
SCALE N.T.S

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Drawing No. ASL-7
Sheet 1 of 7

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A P P E N D I X A

Laboratory Test Results and Chain of Custody Documentation (Asbestos)

AmeriSci New York
117 EAST 30TH ST.
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-3114

PLM Bulk Asbestos Report

Langan Engineering & Environmental S
Attn: Vijay Patel
300 Kimball Drive
4th Floor
Parsippany, NJ 07054

Date Received 10/29/19 **AmeriSci Job #** 219104286
Date Examined 10/30/19 **P.O. #**
ELAP # 11480 **Page** 1 **of** 9
RE: 170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WP-1	219104286-01.1	*No*	NAD [1]
WP-1	**Location:** Ground Level East - Wall Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-1	219104286-01.2	*No*	NAD
WP-1	**Location:** Ground Level East - Wall Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair 2 %, Cellulose 1 %, Non-fibrous 97 %			
WP-2	219104286-02.1	*No*	NAD
WP-2	**Location:** Ground Level West - Wall Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-2	219104286-02.2	*No*	NAD
WP-2	**Location:** Ground Level West - Wall Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-3	219104286-03.1	*No*	NAD
WP-3	**Location:** Ground Level Mezzanine West - Wall Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WP-3	219104286-03.2	*No*	NAD
WP-3	**Location:** Ground Level Mezzanine West - Wall Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-4	219104286-04.1	*No*	NAD
WP-4	**Location:** Ground Level Mezzanine East - Wall Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-4	219104286-04.2	*No*	NAD
WP-4	**Location:** Ground Level Mezzanine East - Wall Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-5	219104286-05.1	*No*	NAD
WP-5	**Location:** Second Floor West - Wall Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-5	219104286-05.2	*No*	NAD
WP-5	**Location:** Second Floor West - Wall Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair Trace, Non-fibrous 100 %			
WP-6	219104286-06.1	*No*	NAD
WP-6	**Location:** Second Floor Hallway - Wall Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WP-6	219104286-06.2	***No***	NAD
WP-6	**Location:** Second Floor Hallway - Wall Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-7	219104286-07.1	***No***	NAD
WP-7	**Location:** Third Floor - Wall Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WP-7	219104286-07.2	***No***	NAD
WP-7	**Location:** Third Floor - Wall Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair 1 %, Cellulose Trace, Non-fibrous 99 %			
CP-1	219104286-08.1	***No***	NAD
CP-1	**Location:** Ground Level West - Ceiling Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
CP-1	219104286-08.2	***No***	NAD
CP-1	**Location:** Ground Level West - Ceiling Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair 2 %, Non-fibrous 98 %			
CP-2	219104286-09.1	***No***	NAD
CP-2	**Location:** Ground Level East - Ceiling Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
CP-2	219104286-09.2	***No***	NAD
CP-2	**Location:** Ground Level East - Ceiling Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair 1 %, Non-fibrous 99 %			
CP-3	219104286-10.1	***No***	NAD
CP-3	**Location:** Ground Level Mezzanine East - Ceiling Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
CP-3	219104286-10.2	***No***	NAD
CP-3	**Location:** Ground Level Mezzanine East - Ceiling Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair Trace, Non-fibrous 100 %			
CP-4	219104286-11.1	***No***	NAD
CP-4	**Location:** Ground Level Mezzanine West - Ceiling Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
CP-4	219104286-11.2	***No***	NAD
CP-4	**Location:** Ground Level Mezzanine West - Ceiling Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair 1 %, Cellulose Trace, Non-fibrous 99 %			
CP-5	219104286-12.1	***No***	NAD
CP-5	**Location:** Second Floor West - Ceiling Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
CP-5	219104286-12.2	***No***	NAD
CP-5	**Location:** Second Floor West - Ceiling Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair 5 %, Non-fibrous 95 %			
CP-6	219104286-13.1	***No***	NAD
CP-6	**Location:** Second Floor East - Ceiling Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
CP-6	219104286-13.2	***No***	NAD
CP-6	**Location:** Second Floor East - Ceiling Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair 2 %, Cellulose 1 %, Non-fibrous 97 %			
CP-7	219104286-14.1	***No***	NAD
CP-7	**Location:** Third Floor - Ceiling Plaster (Skim Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
CP-7	219104286-14.2	***No***	NAD
CP-7	**Location:** Third Floor - Ceiling Plaster (Base Coat)		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Animal hair 4 %, Cellulose 1 %, Non-fibrous 95 %			
PID-1-A	219104286-15	***Yes***	0.5 % [2]
PID-1	**Location:** Ground Level East Restrooms - Pipe Insulation Debris in Chase		(EPA 400 PC) by Kensen Caro on 10/30/19
Analyst Description: Brown, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** Chrysotile 0.5 % **Other Material:** Cellulose 95 %, Non-fibrous 4.5 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
PID-1-B PID-1	219104286-16 **Location:** Ground Level East Restrooms - Pipe Insulation Debris in Chase	***Yes***	1.5 % [2] (EPA 400 PC) by Kensen Caro on 10/30/19
Analyst Description: Brown, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** Chrysotile 1.5 % **Other Material:** Cellulose 95 %, Non-fibrous 3.5 %			
BLN-1-A BLN-1	219104286-17 **Location:** Sub-Basement - Boiler Room - Boiler Lining (Small Square Boilers)	***No***	NAD (by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 70 %, Non-fibrous 30 %			
BLN-1-B BLN-1	219104286-18 **Location:** Sub-Basement - Boiler Room - Boiler Lining (Small Square Boilers)	***No***	NAD (by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: White, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 70 %, Non-fibrous 30 %			
CGD-1-A CGD-1	219104286-19 **Location:** Ground Level Storage Next To West Restrooms - Glue Daubs To Ceiling Tiles	***No***	NAD (by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: Dark Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 46.8 %			
CGD-1-B CGD-1	219104286-20 **Location:** Ground Level Storage Next To West Restrooms - Glue Daubs To Ceiling Tiles	***No***	NAD (by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: Dark Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 43.7 %			
CT-1-A CT-1	219104286-21 **Location:** Ground Level Storage Next To West Restrooms - 12-Inch Ceiling Tile	***No***	NAD (by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 27 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
CT-1-B	219104286-22	***No***	NAD
CT-1	**Location:** Ground Level Storage Next To West Restrooms - 12-Inch Ceiling Tile		(by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 28 %			
EAP-1-A	219104286-23	***No***	NAD
EAP-1	**Location:** Ground Level - Electric Arc Protecting Shield		(by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.1 % **Comment:** (NOB) Material			
EAP-1-B	219104286-24	***No***	NAD
EAP-1	**Location:** Ground Level - Electric Arc Protecting Shield		(by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: OffWhite, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.9 % **Comment:** (NOB) Material			
PJ2-1-A	219104286-25	***No***	NAD
PJ2-1	**Location:** Ground Level East Storages - Mud-Packed Pipe Joint Insulation To Fiberglass		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 30 %, Fibrous glass 5 %, Non-fibrous 65 %			
PJ2-1-B	219104286-26	***No***	NAD
PJ2-1	**Location:** Ground Level East Storages - Mud-Packed Pipe Joint Insulation To Fiberglass		(by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 20 %, Fibrous glass 5 %, Non-fibrous 75 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
PJ2-1-C PJ2-1	219104286-27 **Location:** Ground Level East Storages - Mud-Packed Pipe Joint Insulation To Fiberglass	***No***	NAD (by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 10 %, Fibrous glass 5 %, Non-fibrous 85 %			
PJ1-1-A PJ1-1	219104286-28 **Location:** Ground Level West Restrooms Chase - Mud-Packed Pipe Joint Insulation To Fiberglass	***No***	NAD (by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 15 %, Non-fibrous 85 %			
PJ1-1-B PJ1-1	219104286-29 **Location:** Ground Level West Restrooms Chase - Mud-Packed Pipe Joint Insulation To Fiberglass	***No***	NAD (by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 15 %, Non-fibrous 85 %			
CFM-1-A CFM-1	219104286-30 **Location:** Second Floor Center - Red Cementitious Floor Material	***No***	NAD (by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Red, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
CFM-1-B CFM-1	219104286-31 **Location:** Second Floor Center - Red Cementitious Floor Material	***No***	NAD (by NYS ELAP 198.1) by Kensen Caro on 10/30/19
Analyst Description: Red, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
WCM-1-A WCM-1	219104286-32 **Location:** Fourth Level - Tower - Black Coating On Brick Wall	***No***	NAD (by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 58.7 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCM-1-B WCM-1	219104286-33 **Location:** Fourth Level - Tower - Black Coating On Brick Wall	***No***	NAD (by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 61.7 %			
WGP-1-A WGP-1	219104286-34 **Location:** Ground Level Storage Next To West Restrooms - Window Glazing Putty	***No***	NAD (by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: Beige, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 8.6 %			
WGP-1-B WGP-1	219104286-35 **Location:** Ground Level Storage Next To West Restrooms - Window Glazing Putty	***No***	NAD (by NYS ELAP 198.6) by Kensen Caro on 10/30/19
Analyst Description: Beige, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 3.4 %			

Reporting Notes:

(1) This job was - Analyzed using Motic BA310 Pol Scope S/N 1190000538

(2) Analysis Results For Soil, Dust, Or Debris May Be Highly Variable Because Of The Heterogeneous Nature Of These Samples

Analyzed by: Kensen Caro _____

*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop, (SOF-V) = Sprayed On Fireproofing containing Vermiculite; (SM-V) = Surfacing Material containing Vermiculite; PLM Bulk Asbestos Analysis by Appd E to Subpt E, 40 CFR 763 (NVLAP 200546-0), ELAP PLM Method 198.1 for NY friable samples, which includes the identification and quantitation of vermiculite or 198.6 for NOB samples or EPA 400 pt ct by Appd E to Subpt E, 40 CFR 763 (NY ELAP Lab 11480); Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile, FR 59,146,38970,8/1/94) National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab.This PLM report relates ONLY to the items tested. AIHA-LAP, LLC Lab ID 102843, RI Cert AAL-094, CT Cert PH-0186, Mass Cert AA000054.

Reviewed By:_____ _____END OF REPORT_____

Client Name: Langan Engineering & Environmental Services

Table I
Summary of Bulk Asbestos Analysis Results

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01.1	WP-1	WP-1	----	----	----	----	NAD	NA
Location:	Ground Level East - Wall Plaster (Skim Coat)							
01.2	WP-1	WP-1	----	----	----	----	NAD	NA
Location:	Ground Level East - Wall Plaster (Base Coat)							
02.1	WP-2	WP-2	----	----	----	----	NAD	NA
Location:	Ground Level West - Wall Plaster (Skim Coat)							
02.2	WP-2	WP-2	----	----	----	----	NAD	NA
Location:	Ground Level West - Wall Plaster (Base Coat)							
03.1	WP-3	WP-3	----	----	----	----	NAD	NA
Location:	Ground Level Mezzanine West - Wall Plaster (Skim Coat)							
03.2	WP-3	WP-3	----	----	----	----	NAD	NA
Location:	Ground Level Mezzanine West - Wall Plaster (Base Coat)							
04.1	WP-4	WP-4	----	----	----	----	NAD	NA
Location:	Ground Level Mezzanine East - Wall Plaster (Skim Coat)							
04.2	WP-4	WP-4	----	----	----	----	NAD	NA
Location:	Ground Level Mezzanine East - Wall Plaster (Base Coat)							
05.1	WP-5	WP-5	----	----	----	----	NAD	NA
Location:	Second Floor West - Wall Plaster (Skim Coat)							
05.2	WP-5	WP-5	----	----	----	----	NAD	NA
Location:	Second Floor West - Wall Plaster (Base Coat)							
06.1	WP-6	WP-6	----	----	----	----	NAD	NA
Location:	Second Floor Hallway - Wall Plaster (Skim Coat)							
06.2	WP-6	WP-6	----	----	----	----	NAD	NA
Location:	Second Floor Hallway - Wall Plaster (Base Coat)							
07.1	WP-7	WP-7	----	----	----	----	NAD	NA
Location:	Third Floor - Wall Plaster (Skim Coat)							
07.2	WP-7	WP-7	----	----	----	----	NAD	NA
Location:	Third Floor - Wall Plaster (Base Coat)							
08.1	CP-1	CP-1	----	----	----	----	NAD	NA
Location:	Ground Level West - Ceiling Plaster (Skim Coat)							
08.2	CP-1	CP-1	----	----	----	----	NAD	NA
Location:	Ground Level West - Ceiling Plaster (Base Coat)							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
09.1	CP-2	CP-2	----	----	----	----	NAD	NA
Location:	Ground Level East - Ceiling Plaster (Skim Coat)							
09.2	CP-2	CP-2	----	----	----	----	NAD	NA
Location:	Ground Level East - Ceiling Plaster (Base Coat)							
10.1	CP-3	CP-3	----	----	----	----	NAD	NA
Location:	Ground Level Mezzanine East - Ceiling Plaster (Skim Coat)							
10.2	CP-3	CP-3	----	----	----	----	NAD	NA
Location:	Ground Level Mezzanine East - Ceiling Plaster (Base Coat)							
11.1	CP-4	CP-4	----	----	----	----	NAD	NA
Location:	Ground Level Mezzanine West - Ceiling Plaster (Skim Coat)							
11.2	CP-4	CP-4	----	----	----	----	NAD	NA
Location:	Ground Level Mezzanine West - Ceiling Plaster (Base Coat)							
12.1	CP-5	CP-5	----	----	----	----	NAD	NA
Location:	Second Floor West - Ceiling Plaster (Skim Coat)							
12.2	CP-5	CP-5	----	----	----	----	NAD	NA
Location:	Second Floor West - Ceiling Plaster (Base Coat)							
13.1	CP-6	CP-6	----	----	----	----	NAD	NA
Location:	Second Floor East - Ceiling Plaster (Skim Coat)							
13.2	CP-6	CP-6	----	----	----	----	NAD	NA
Location:	Second Floor East - Ceiling Plaster (Base Coat)							
14.1	CP-7	CP-7	----	----	----	----	NAD	NA
Location:	Third Floor - Ceiling Plaster (Skim Coat)							
14.2	CP-7	CP-7	----	----	----	----	NAD	NA
Location:	Third Floor - Ceiling Plaster (Base Coat)							
15	PID-1-A	PID-1	----	----	----	----	Chrysotile 0.5	NA
Location:	Ground Level East Restrooms - Pipe Insulation Debris in Chase							
16	PID-1-B	PID-1	----	----	----	----	Chrysotile 1.5	NA
Location:	Ground Level East Restrooms - Pipe Insulation Debris in Chase							
17	BLN-1-A	BLN-1	----	----	----	----	NAD	NA
Location:	Sub-Basement - Boiler Room - Boiler Lining (Small Square Boilers)							
18	BLN-1-B	BLN-1	----	----	----	----	NAD	NA
Location:	Sub-Basement - Boiler Room - Boiler Lining (Small Square Boilers)							

See Reporting notes on last page

Table I

Summary of Bulk Asbestos Analysis Results

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
19	CGD-1-A	CGD-1	0.188	46.8	6.4	46.8	NAD	NAD
Location:	Ground Level Storage Next To West Restrooms - Glue Daubs To Ceiling Tiles							
20	CGD-1-B	CGD-1	0.199	48.2	8.0	43.7	NAD	NAD
Location:	Ground Level Storage Next To West Restrooms - Glue Daubs To Ceiling Tiles							
21	CT-1-A	CT-1	0.270	13.3	59.6	27.0	NAD	NAD
Location:	Ground Level Storage Next To West Restrooms - 12-Inch Ceiling Tile							
22	CT-1-B	CT-1	0.239	11.7	60.3	28.0	NAD	NAD
Location:	Ground Level Storage Next To West Restrooms - 12-Inch Ceiling Tile							
23	EAP-1-A	EAP-1	0.089	97.8	1.1	1.1	NAD	NAD
Location:	Ground Level - Electric Arc Protecting Shield							
24	EAP-1-B	EAP-1	0.114	98.2	0.9	0.9	NAD	NAD
Location:	Ground Level - Electric Arc Protecting Shield							
25	PJ2-1-A	PJ2-1	----	----	----	----	NAD	NA
Location:	Ground Level East Storages - Mud-Packed Pipe Joint Insulation To Fiberglass							
26	PJ2-1-B	PJ2-1	----	----	----	----	NAD	NA
Location:	Ground Level East Storages - Mud-Packed Pipe Joint Insulation To Fiberglass							
27	PJ2-1-C	PJ2-1	----	----	----	----	NAD	NA
Location:	Ground Level East Storages - Mud-Packed Pipe Joint Insulation To Fiberglass							
28	PJ1-1-A	PJ1-1	----	----	----	----	NAD	NA
Location:	Ground Level West Restrooms Chase - Mud-Packed Pipe Joint Insulation To Fiberglass							
29	PJ1-1-B	PJ1-1	----	----	----	----	NAD	NA
Location:	Ground Level West Restrooms Chase - Mud-Packed Pipe Joint Insulation To Fiberglass							
30	CFM-1-A	CFM-1	----	----	----	----	NAD	NA
Location:	Second Floor Center - Red Cementitious Floor Material							
31	CFM-1-B	CFM-1	----	----	----	----	NAD	NA
Location:	Second Floor Center - Red Cementitious Floor Material							
32	WCM-1-A	WCM-1	0.225	16.4	24.9	58.7	NAD	NAD
Location:	Fourth Level - Tower - Black Coating On Brick Wall							
33	WCM-1-B	WCM-1	0.214	12.1	26.2	61.7	NAD	NAD
Location:	Fourth Level - Tower - Black Coating On Brick Wall							
34	WGP-1-A	WGP-1	0.221	15.8	75.6	8.6	NAD	NAD
Location:	Ground Level Storage Next To West Restrooms - Window Glazing Putty							

See Reporting notes on last page

Client Name: Langan Engineering & Environmental Services

Table I
Summary of Bulk Asbestos Analysis Results

170321307; Kingsbridge Armory; 29 Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
35	WGP-1-B	WGP-1	0.206	12.1	84.5	3.4	NAD	NAD

Location: Ground Level Storage Next To West Restrooms - Window Glazing Putty

Analyzed by: Khaalid W. Perine_____; Date Analyzed 10/30/2019

**Quantitative Analysis (Semi/Full); Bulk Asbestos Analysis - PLM by Appd E to Subpt E, 40 CFR 763 or ELAP 198.1 for New York friable samples or ELAP 198.6 for New York NOB samples; TEM (Semi/Full) by EPA 600/R-93/116 (or ELAP 198.4; for New York samples; NAD = no asbestos detected during a quantitative analysis; NA = not analyzed; Trace = <1%; (SOF-V) = Sprayed On Fireproofing containing Vermiculite; (SM-V) = Surfacing Material containing Vermiculite; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only; Qualitative Analysis: Asbestos analysis results of "Present" or "NVA = No Visible Asbestos" represents results for Qualitative PLM or TEM Analysis only (no accreditation coverage available from any regulatory agency for qualitative analyses): NVLAP (PLM) 200546-0, NYSDOH ELAP Lab 11480, AIHA-LAP, LLC (PLM) Lab ID 102843.

Warning Note: PLM limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris for which PLM evaluation is recommended (i.e. soils and other heterogenous materials).

Reviewed By:_____

LANGAN
300 Kimball Drive
Parsippany, NJ 07054
Phone: 973-560-4900
Fax: 973-560-4901

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	KINGSBRIDGE ARMORY		
Address:	29 KINGSBRIDGE ROAD BRONX, NEW YORK	Auth. By: Phone No:	Vijay Patel 973.560.4983
Langan Job No.:	170321307	Sampling Date:	10/25/2019
Sampled By/License #:	MIROSLAW BARAN / NYC114570/NYS03-03533 SANJAY PATEL / NYC115945/NYS98-10216		

Sample #	Sample ID	Description of Sample	Sample Location	Analysis Requested for Asbestos: PLM	PLM-NOB	TEM	Analysis Requested for Lead: AAS	TCLP	Analysis Requested for PCB: EPA Method 8082	Results
1	WP-1	Wall Plaster (2 layers)	Ground Level East	X						
2	WP-2	Wall Plaster (2 layers)	Ground Level West	X						
3	WP-3	Wall Plaster (2 layers)	Ground Level Mezzanine West	X						
4	WP-4	Wall Plaster (2 layers)	Ground Level Mezzanine East	X						
5	WP-5	Wall Plaster (2 layers)	Second Floor West	X						
6	WP-6	Wall Plaster (2 layers)	Second Floor Hallway	X						
7	WP-7	Wall Plaster (2 layers)	Third Floor	X						
8	CP-1	Ceiling Plaster (2 layers)	Ground Level West	X						
9	CP-2	Ceiling Plaster (2 layers)	Ground Level East	X						
10	CP-3	Ceiling Plaster (2 layers)	Ground Level Mezzanine East	X						

Total No. of Samples: #2191042866 10

Turnaround Request:	RUSH	12 hours	24 hours	48 hours	72 hours	5 days
			X			

Laboratory Instructions: Stop analysis @ 1st positive (>1% by weight) for each homogenous sample group. Please e-mail results to mbaran@langan.com and vpatel@langan.com.

Please analyze all plaster samples. Do not stop analysis @ 1st positive (>1% by weight).

Relinquished By:	Date:	Time:	Received by:	Date:	Time:
MIROSLAW BARAN	10/28/2019			10/29/19	11:22
Company: LANGAN			Company: AmeriSci		

Laboratory Name:

LANGAN
300 Kimball Drive
Parsippany, NJ 07054
Phone: 973-560-4900
Fax: 973-560-4901

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	KINGSBRIDGE ARMORY		
Address:	29 KINGSBRIDGE ROAD BRONX, NEW YORK	Auth. By: Phone No:	Vijay Patel 973.560.4983
Langan Job No.:	170321307	Sampling Date:	10/25/2019
Sampled By/License #:	MIROSLAW BARAN / NYC114570/NYS03-03533 SANJAY PATEL / NYC115945/NYS98-10216		

Sample #	Sample ID	Description of Sample	Sample Location	Analysis Requested for Asbestos: PLM	PLM-NOB	TEM	Analysis Requested for Lead: AAS	TCLP	Analysis Requested for PCB: EPA Method 8082	Results
11	CP-4	Ceiling Plaster (2 layers)	Ground Level Mezzanine West	X						
12	CP-5	Ceiling Plaster (2 layers)	Second Floor West	X						
13	CP-6	Ceiling Plaster (2 layers)	Second Floor East	X						
14	CP-7	Ceiling Plaster (2 layers)	Third Floor	X						
15	PID-1-A	Pipe Insulation Debris in Chase	Ground Level East Restrooms	X						
16	PID-1-B	Pipe Insulation Debris in Chase	Ground Level East Restrooms	X						
17	BLN-1-A	Boiler Lining (Small square boilers)	Sub-Basement - Boiler Room	X						
18	BLN-1-B	Boiler Lining (Small square boilers)	Sub-Basement - Boiler Room	X						
19	CGD-1-A	Glue Daubs to Ceiling Tiles	Ground Level Storage next to West Restrooms		X	X				
20	CGD-1-B	Glue Daubs to Ceiling Tiles	Ground Level Storage next to West Restrooms		X	X				

Total No. of Samples: #219104286 10

Turnaround Request:	RUSH	12 hours	24 hours	48 hours	72 hours	5 days
			X			

Laboratory Instructions: Stop analysis @ 1st positive (>1% by weight) for each homogenous sample group. Please e-mail results to mbaran@langan.com and vpatel@langan.com.

Please analyze all plaster samples. Do not stop analysis @ 1st positive (>1% by weight).

Relinquished By:	Date:	Time:	Received by:	Date:	Time:
MIROSLAW BARAN	10/28/2019			10/29/19	11:22
Company: LANGAN			Company: Amer. Sci		

Laboratory Name:

LANGAN
300 Kimball Drive
Parsippany, NJ 07054
Phone: 973-560-4900
Fax: 973-560-4901

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	KINGSBRIDGE ARMORY		
Address:	29 KINGSBRIDGE ROAD BRONX, NEW YORK	Auth. By: Phone No:	Vijay Patel 973.560.4983
Langan Job No.:	170321307	Sampling Date:	10/25/2019
Sampled By/License #:	MIROSLAW BARAN / NYC114570/NYS03-03533 SANJAY PATEL / NYC115945/NYS98-10216		

Sample #	Sample ID	Description of Sample	Sample Location	Analysis Requested for Asbestos: PLM	PLM-NOB	TEM	Analysis Requested for Lead: AAS	TCLP	Analysis Requested for PCB: EPA Method 8082	Results
21	CT-1-A	12-inch Ceiling Tile	Ground Level Storage next to West Restrooms		X	X				
22	CT-1-B	12-inch Ceiling Tile	Ground Level Storage next to West Restrooms		X	X				
23	EAP-1-A	Electric Arc Protecting Shield	Ground Level	X						
24	EAP-1-B	Electric Arc Protecting Shield	Ground Level	X						
25	PJ2-1-A	Mud-packed Pipe Joint Insulation to Fiberglass	Ground Level East Storages	X						
26	PJ2-1-B	Mud-packed Pipe Joint Insulation to Fiberglass	Ground Level East Storages	X						
27	PJ2-1-C	Mud-packed Pipe Joint Insulation to Fiberglass	Ground Level East Storages	X						
28	PJ1-1-A	Mud-packed Pipe Joint Insulation to Fiberglass	Ground Level West Restrooms Chase	X						
29	PJ1-1-B	Mud-packed Pipe Joint Insulation to Fiberglass	Ground Level West Restrooms Chase	X						
30	CFM-1-A	Red Cementitious Floor Material	Second Floor Center	X						

Total No. of Samples: #2191042866 10

Turnaround Request:	RUSH	12 hours	24 hours	48 hours	72 hours	5 days
			X			

Laboratory Instructions: Stop analysis @ 1st positive (>1% by weight) for each homogenous sample group. Please e-mail results to mbaran@langan.com and vpatel@langan.com.

Please analyze all plaster samples. Do not stop analysis @ 1st positive (>1% by weight).

Relinquished By:	Date:	Time:	Received by:	Date:	Time:
MIROSLAW BARAN	10/28/2019			10/29/19	11:22
Company: LANGAN			Company: AmeriSci		

Laboratory Name:

LANGAN
300 Kimball Drive
Parsippany, NJ 07054
Phone: 973-560-4900
Fax: 973-560-4901

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	KINGSBRIDGE ARMORY		
Address:	29 KINGSBRIDGE ROAD BRONX, NEW YORK	Auth. By: Phone No:	Vijay Patel 973.560.4983
Langan Job No.:	170321307	Sampling Date:	10/25/2019
Sampled By/License #:	MIROSLAW BARAN / NYC114570/NYS03-03533 SANJAY PATEL / NYC115945/NYS98-10216		

Sample #	Sample ID	Description of Sample	Sample Location	Analysis Requested for Asbestos: PLM	PLM-NOB	TEM	Analysis Requested for Lead: AAS	TCLP	Analysis Requested for PCB: EPA Method 8082	Results
31	CFM-1-B	Red Cementitious Floor Material	Second Floor Center	X						
32	WCM-1-A	Black Coating on Brick Wall	4th Level - Tower		X	X				
33	WCM-1-B	Black Coating on Brick Wall	4th Level - Tower		X	X				
34	WGP-1-A	Window Glazing Putty	Ground Level Storage next to West Restrooms		X	X				
35	WGP-1-B	Window Glazing Putty	Ground Level Storage next to West Restrooms		X	X				
--										
--										
--		#219104286								
--										
--										

Total No. of Samples:	5	Turnaround Request:	RUSH	12 hours	24 hours	48 hours	72 hours	5 days
					X			

Laboratory Instructions: Stop analysis @ 1st positive (>1% by weight) for each homogenous sample group. Please e-mail results to mbaran@langan.com and vpatel@langan.com.

Please analyze all plaster samples. Do not stop analysis @ 1st positive (>1% by weight).

Relinquished By:	Date:	Time:	Received by:	Date:	Time:
MIROSLAW BARAN	10/28/2019			10/29/19	11:22
Company: **LANGAN**			Company: AmriSci		

Laboratory Name:

A P P E N D I X B

Langan's Certifications and Laboratory Accreditations

New York State – Department of Labor
Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Langan Engineering, Environmental, Surveying,
Landscape Architecture and Geology, D.P.C.
4th Floor
300 Kimball Drive

Parsippany, NJ 07054

FILE NUMBER: 13-70336
LICENSE NUMBER: 70336
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 03/07/2019
EXPIRATION DATE: 03/31/2020

Duly Authorized Representative – Vijay Patel:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Eileen M. Franko, Director
For the Commissioner of Labor

SH 432 (8/12)

NYC DEP ASBESTOS CONTROL PROGRAM

ASBESTOS CERTIFICATE



BAJRAMI,
ADEM
INVESTIGATOR
125555

EXPIRES: 11/9/2020
DOB:11/9/1978 M 6' 02"

MUST BE CARRIED ON ALL ASBESTOS PROJECTS

NYC DEP ASBESTOS CONTROL PROGRAM

ASBESTOS CERTIFICATE



PATEL,
SANJAYKUMAR B
INVESTIGATOR
115945

EXPIRES: 9/18/2019
DOB:9/18/1967 M 5' 11"

MUST BE CARRIED ON ALL ASBESTOS PROJECTS

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

N.Y.S



SANJAYKUMAR PATEL
CLASS(EXPIRES)
C ATEC(09/19) D INSP(09/19)
H PM (09/19)

CERT# 98-10216
DMV# 587051083

MUST BE CARRIED ON ASBESTOS PROJECTS

01213 0047366699 25

EYES BLK
HAIR BLK
HGT 6' 00"

IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

United States Environmental Protection Agency

This is to certify that



Sanjay B Patel

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires November 20, 2021

LBP-R-4543-1
Certification #

September 18, 2018
Issued On

John Gorman, Chief
Pesticides & Toxic Substances Branch

NYC DEP ASBESTOS CONTROL PROGRAM

ASBESTOS CERTIFICATE



BARAN,
MIROSLAW
INVESTIGATOR
114570

EXPIRES: 06/21/2021
DOB:06/21/1972 M 5' 09"

MUST BE CARRIED ON ALL ASBESTOS PROJECTS

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

N.Y.S



MIROSLAW M BARAN
CLASS(EXPIRES)
C ATEC(06/20) D INSP(06/20)
H PM (06/20)

CERT# 03-03533
DMV# 521159926

MUST BE CARRIED ON ASBESTOS PROJECTS

United States Environmental Protection Agency

This is to certify that



Miroslaw M Baran

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires February 21, 2022

LBP-R-I198699-1
Certification #

February 07, 2019
Issued On

John Gorman, Chief
Pesticides & Toxic Substances Branch

NEW YORK STATE OF OPPORTUNITY. | Department of Health

ANDREW M. CUOMO
Governor

HOWARD A. ZUCKER, M.D., J.D.
Commissioner

SALLY DRESLIN, M.S., R.N.
Executive Deputy Commissioner

LAB ID: 11480

April 01, 2019

MR. PAUL J. MUCHA
AMERICA SCIENCE TEAM NEW YORK, INC
117 EAST 30TH ST
NEW YORK, NY 10016

Certificate Expiration Date:
April 01, 2020

Dear Mr. Mucha,

Enclosed are certificate(s) of approval issued to your environmental laboratory for the current permit year. The certificate(s) supersede(s) any previously issued one(s) and is(are) in effect through the expiration date listed. Please carefully examine the certificate(s) to insure that the categories, subcategories, analytes, and methods for which your laboratory is approved are correct. In addition, verify that your laboratory's name, address, lead technical director, and identification number are accurate.

Pursuant to NYCRR Subpart 55-2.2, original certificates must be posted conspicuously in the laboratory and copies shall be made available to any client of the laboratory upon request.

Pursuant to NYCRR Subpart 55-2.6, any misrepresentation of the fields of accreditation (category - method - analyte) for which your laboratory is approved may result in denial, suspension, or revocation of your certification. Any use of the Environmental Laboratory Approval Program (ELAP) or National Environmental Laboratory Accreditation Program (NELAP) name, reference to the laboratory's approval status, and/or using the NELAP logo in any catalogs, advertising, business solicitations, proposals, quotations, laboratory analytical reports, or other materials must include the laboratory's ELAP identification number and distinguish between testing for which the laboratory is approved and testing for which the laboratory is not approved.

If you have any questions, please contact ELAP at the New York State Department of Health (NYS DOH), Wadsworth Center, PO Box 509, Albany NY, 12201-0509; by phone at (518) 485-5570; by facsimile at (518) 485-5568; and by email at elap@health.ny.gov.

Sincerely,

Victoria Pretti

Victoria Pretti
Director and QA Officer
Environmental Laboratory Approval Program

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2020
Issued April 01, 2019

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. PAUL J. MUCHA
AMERICA SCIENCE TEAM NEW YORK, INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Miscellaneous

Asbestos	EPA 100.2

Serial No.: 59673

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2020
Issued April 01, 2019

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. PAUL J. MUCHA
AMERICA SCIENCE TEAM NEW YORK, INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material	Item 198.1 of Manual
	EPA 600/M4/82/020
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	Item 198.4 of Manual

Serial No.: 59674

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2020
Issued April 01, 2019

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. PAUL J. MUCHA
AMERICA SCIENCE TEAM NEW YORK, INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos	40 CFR 763 APX A No. III
	YAMATE,AGARWAL GIBB
	NIOSH 7402
Fibers	NIOSH 7400 A RULES

Serial No.: 59675

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

NVLAP® National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AmeriSci New York
117 E. 30th Street
New York, NY 10016
Mr. Paul Mucha
Phone: 212-679-8600 Fax: 212-679-2711
Email: pmucha@amerisci.com
http://www.amerisci.com

ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 200546-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code	*Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200546-0

AmeriSci New York

New York, NY

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2019-07-01 through 2020-06-30

Effective Dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

For the National Voluntary Laboratory Accreditation Program

A P P E N D I X C

Copy of the October 6, 2008 Asbestos Investigation Report prepared by Langan

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

David T. Gockel, P.E., P.P.
George P. Kelley, P.E.
George E. Derrick, P.E.
Michael A. Semeraro, Jr., P.E.
Nicholas De Rose, P.G.
Andrew J. Ciancia, P.E.
George E. Leventis, P.E.
Rudolph P. Frizzi, P.E.
Ronald A. Fuerst, C.L.A.
Colleen Costello, P.G.
Cristina M. Gonzalez, P.E.
Gerald J. Zambrella, C.E.M.

Jorge H. Berkowitz, Ph.D.
Richard Burrow, P.E.
David J. Charette, P.W.S.
Steven A. Ciambruschini, P.G.
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John C. Cote, P.E.
Michael E. Cotreau, P.E.
Daniel D. Disario, P.E.
Michael M. Goldstein
Sam B. Ishak, M.C.S.E.
Robert Y. Koto, P.G.
William G. Lothian, P.E.
Michele E. O'Connor, P.E.
Joseph E. Romano, P.L.S.
Leonard D. Savino, P.E.
Richard R. Steiner, P.E.
Michael Szura, C.L.A., A.S.L.A
Bryan Waisnor, P.E.

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Ronald D. Boyer, P.E.
Michael J. Fowler, P.E.
Ryan C. Linthicum, P.E.
Vijay Patel
Mark K. Seel, P.E., P.G.
Beverly R. Williams

October 6, 2008

Dean Vanderwarker
Related Retail
60 Columbus Circle
New York, New York 10004

Re: Asbestos Investigation
Kingsbridge Armory
29 West Kingsbridge Road
Bronx, New York
Langan Project No. 5815101

Dear Mr. Vanderwarker:

Langan Engineering and Environmental Services, P.C. (Langan) completed an asbestos investigation of the above referenced building. The purpose of this investigation was to confirm the presence/absence of asbestos containing materials (ACM) within the subject building. The asbestos investigation was performed on September 4, 5, and 8, 2008, by Langan's New York City Department of Environmental Protection Agency (NYCDEP) certified asbestos investigators, Messrs Miroslaw Baran and Sanjay Patel. Langan's certifications are provided in the Attachments.

Site and Building Description

The project site is at the center of a city block bordered by West 195th Street to the north, West Kingsbridge Road to the south, Jerome Avenue to the east, and Reservoir Avenue to the west (Figure 1). Most of the Site is occupied by the landmark Kingsbridge Armory building (Armory), which was constructed on an approximately 200,000-square-foot (sq-ft) footprint between 1912 and 1917 over the abandoned east basin of the Jerome Park Reservoir. The main drill hall at the center of the Armory measures approximately 300 by 600 feet (ft) and is spanned freely by an arched roof framing that rises 110 ft above the drill hall floor. Beneath the drill floor, two cellar levels formerly housed offices, a garage, a gymnasium, rifle and pistol ranges, and rooms for other military functions. The drill hall volume is flanked to the south by a two-story headhouse with a single cellar floor and four towers that contain offices and residential quarters. The eastern portion of the sub-cellar area underlies the Jerome Avenue sidewalk. The sub-cellar of the Armory building is accessible by a ramp that extends from West 195th Street. The Armory is currently owned and operated by the City of New York, and is used for

storage of City property. The heat and hot water to the building was supplied by oil-fired boilers located in the sub-basement.

Observations and Findings

Prior to conducting the field investigation, we reviewed the Environmental Survey Report dated August 24, 2000, prepared by ET Environmental Corporation (ET). The report documented the following building materials to be asbestos containing materials (ACM): Built-up roofing and flashing materials, Roof shingle, Various colors 9-inch square floor tiles, Air-cell and magnesia pipe and pipe joint insulation, Mud-pack pipe joint insulation associated with fiberglass pipe insulation, Window caulking and glazing putty, and Caulking associated with exterior joints, seams and cracks. The wall and ceiling plaster, boiler breeching and insulation, grey floor coating, various ceiling tiles and panels, wallboard and joint compound were documented to be non-ACM.

During Langan's investigation, suspect materials observed in the building were documented, assessed, quantified, and sampled, as necessary. In addition to the materials identified in ET report, Langan observed the following suspect materials which were not addressed: Baseboard Molding Glue, Pyroblock, Pressboard material, Wire wrap insulation, Electric ebony/Transite switch panel, Safety switch backing material, Vibration dumper cloth, Floor joint fill material, Wall panel glue, Mirror glue, Exterior and interior door caulking, Black and brown linoleum, 9-inch square beige floor tile and associated mastic, Black floor tile and associated mastic under plywood, 12-inch square beige floor tile and associated mastic, 12-inch square tan wood design floor tile and associated mastic, 12-inch square terracotta floor tile and associated mastic, 12-inch square dark brown floor tile and associated mastic, Mastic associated with various 9-ich square floor tiles, Pipe insulation debris mixed with plaster, wood and contaminated construction debris.

A total of sixty-six (66) bulk samples of the observed suspect materials were collected during our investigation. Samples were analyzed by AmeriSci laboratory of New York, New York. AmeriSci is accredited by the Environmental Laboratory Accreditation Program (ELAP) and National Voluntary Laboratory Accreditation Program (NVLAP). A copy of laboratory test results, chain-of–custody documentation, and Laboratory's accreditations is provided in the Attachments.

Findings

According to USEPA, a material with an asbestos content greater than one percent by weight is considered as an asbestos-containing material. Consequently, the following materials in the building were identified to be ACM:

- Pipe and Joint Insulation = 9,048 linear feet
- Wire wrap insulation = 26,500 linear feet

- Electric Transite switch panel= 45 square feet
- Floor joint fill material =1,800 square feet
- Wall panel glue = 1,600 square feet
- Mirror glue = 20 square feet
- Various types of floor tiles/mastic (9-inch square beige floor tile and associated mastic, Black floor tile and associated mastic under plywood, 12-inch square tan wood design floor tile and associated mastic, 12-inch square terracotta floor tile and associated mastic, and Mastic associated with various 9-inch square floor tiles) = 28,100 square feet
- Exterior and interior door caulking = 208 Masonry openings
- Original built-up roofing and flashing materials = 50 square feet
- Pipe insulation debris mixed with plaster, wood and other construction debris = 58,700 square feet plus additional 40 cubic yards

The baseboard molding glue, Pyroblock, pressboard material, safety switch backing material, vibration dumper cloth, black and brown linoleum, 12-inch square beige floor tile and associated mastic, 12-inch square dark brown floor tile and associated mastic were identified to be non-ACM. A summary of the asbestos survey findings is provided in attached Table 1.

The ET report documented the built-up roofing material. Apparently, the building was observed to have fairly new built-up roofing. Based on our field observations and review of the Building Department records, it appears that as part of 2002 exterior restoration project, the built-up roofing materials and several windows in the building were replaced. Any roof cuts would void existing warranty, and therefore, the roofs were not sampled during our investigation.

Conclusions and Recommendations

Asbestos-containing materials were identified in friable and non-friable forms in the subject building. All confirmed and presumed ACM in the building that is to be left in place should be managed in good condition under an Operations and Management (O & M) plan. The purpose and objective of the O & M Plan is to maintain the assumed, presumed or known asbestos containing materials in good condition, prevent future release of asbestos fibers, and minimize exposure of all building occupants to asbestos fibers.

Asbestos containing debris from damaged pipe insulation was observed throughout the building. Access to the building should be restricted until the clean-up work is completed.

ACM that would be impacted by planned renovation must be properly removed prior to performing such activities. Refer to Table 1 for the summary of asbestos inspection findings. The removal and disposal of ACM must be performed by a NYS-DOL licensed asbestos handling contractor in accordance with Federal, state, and local regulations. Proper notifications must be filed with the US-EPA, NYS-DOL, NYC-DEP and other regulatory agencies prior to performing such activities.

Abatement design documents should be prepared to identify the locations of ACM removal and specify removal work practices.

As required by the NYS-DOL and NYC-DEP regulations, the abatement project must be monitored by a NYS-DOL certified project monitor. The project monitor oversees contractor's work practices to ensure regulatory compliance and also performs pre, during, and final clearance post abatement air sampling in accordance with the state and city regulations.

In addition to ACM, lead based paint was observed throughout the building. The paint was flaking, cracking, with debris lying on the floor. Apparently, paint stabilization work was performed in the basement and sub-basement. In addition to LBP, suspect PCB/Mercury containing electrical articles were observed throughout the building.

Estimated Remediation Cost

Budgetary estimates for asbestos abatement are provided in Attachments.

The cost for the removal of visually observed ACM/contaminated debris, removal of PCB/Mercury containing electrical articles, and remediation/stabilization of damaged paint in the building is estimated to be approximately **$ 1,350,000,** including preparation of abatement design documents, project monitoring, air sample analysis, and closeout documentation.

We trust that this report will satisfy your requirements. If you have any questions regarding this report, please call me at 201-794-6900.

Sincerely,
Langan Engineering & Environmental Services, P.C.

Vijay Patel
Associate

Cc: Joel Landes– Langan

Attachments: Table 1 - Summary of Asbestos Survey Findings,
Table 2 - Budgetary Estimate for Asbestos Abatement,
Results of Laboratory Analyses and Chain-of-Custody Documentation, and
Langan certifications and Laboratory accreditations

Table 1 – Summary of Asbestos Survey Findings

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Sub-Basement				
Original mud-pack pipe joint insulation associated w/ fiberglass	ACM	3 joints	Fair	—
New mud-pack pipe joint insulation associate w/ fiberglass	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Boiler gasket	Non-ACM	—	Good	—
Boiler edge patch material	Non-ACM	—	Good	—
Breeching insulation	Non-ACM	—	Good	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Wall plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Basement				
Original mud-pack pipe joint insulation associated w/ fiberglass	ACM	20 joints	Fair to poor	—
Block and air-cell pipe insulation	ACM	4,350 LF	Poor	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. Pipe gauges, dents, and open ends were observed.
Pipe insulation debris mixed with plaster, wood and other construction debris on the floor.	ACM	39,000 SF	—	The average thickness of the debris layer in majority of the contaminated area was one inch; however, in several locations, thickness of debris layer reached up to two feet.
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	ACM	25 CY	—	—

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Various types of floor tile and associated mastic	ACM	300 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM.
Electrical wire insulation	ACM	10,000 LF	Unknown	—
Interior door caulking	ACM	3 door openings	Good	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
New mud-pack pipe joint insulation associate w/ fiberglass	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Vibration dumper cloth	Non-ACM	—	Good to fair	—
Electric panel board	Non-ACM	—	Good to fair	—
Pressboard material	Non-ACM	—	Good to fair	—
Cove base and associated mastic	Non-ACM	—	Fair	—
Pyroblock	Non-ACM	—	Unknown	—
Basement Mezzanine				
Block and air-cell pipe insulation	ACM	1,125 LF	Poor	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. Pipe gauges, dents, and open ends were observed.

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Pipe insulation debris mixed with plaster, wood and other construction debris on the floor.	ACM	17,500 SF	—	The average thickness of the debris layer in majority of the contaminated area was one inch; however, in several locations, thickness of debris layer reached up to two feet.
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	ACM	10 CY	—	—
Various types of floor tile and associated mastic	ACM	5,500 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM. Up to two layers of floor tile/covering and mastic were observed at isolated locations. At the eastern section of Basement Mezzanine ACM floor tiles and mastic were observed to be covered with layer of plywood and non-ACM floor tiles.
Electrical wire insulation	ACM	3,000 LF	Unknown	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
New mud-pack pipe joint insulation associate w/ fiberglass	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Vibration dumper cloth	Non-ACM	—	Good to fair	—
Electric panel board	Non-ACM	—	Good to fair	—
Cove base and associated mastic	Non-ACM	—	Fair	—

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Pyroblock	Non-ACM	—	Unknown	—
1st Floor				
Block and air-cell pipe insulation	ACM	120 LF	Fair	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. Pipe open ends were observed.
Pipe insulation debris mixed with plaster on the floor.	ACM	300 SF	—	—
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	ACM	5 CY	—	—
Various types of floor tile and associated mastic	ACM	9,500 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM. Up to two layers of floor tile/covering and mastic were observed at isolated locations. At one location ACM floor tiles and mastic were observed to be covered with layer of plywood.
Ebony/Transite Electric switch panel	ACM	45 SF	Good to fair	—
Electrical wire insulation	ACM	10,000 LF	Unknown	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
New mud-pack pipe joint insulation associate w/ fiberglass	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Vibration dumper cloth	Non-ACM	—	Good to fair	—
Cove base and associated mastic	Non-ACM	—	Fair	—
1st Floor Mezzanine				
Pipe insulation debris mixed with plaster on the floor.	ACM	500 SF	—	—
Various types of floor tile and associated mastic	ACM	1,600 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM.
Electrical wire insulation	ACM	1,000 LF	Unknown	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Cove base and associated mastic	Non-ACM	—	Fair	—
2nd Floor				
Block and air-cell pipe insulation	ACM	250 LF	Fair	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. Pipe gauges, dents, and open ends were observed.
Pipe insulation debris on suspended ceiling plaster.	ACM	600 SF	—	—

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Various types of floor tile and associated mastic	ACM	7,700 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM. Up to two layers of floor tile/covering and mastic were observed at isolated locations. Hardwood flooring underneath floor tiles was mouldered and was in poor condition. Hardwood flooring was installed on concrete sub-flooring.
Wall panel glue	ACM	1,600 SF	—	—
Mirror glue	ACM	20 SF	—	—
Electrical wire insulation	ACM	2,000 LF	Unknown	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Cove base and associated mastic	Non-ACM	—	Fair	—
3rd Floor and 4th Tower Level				
Block and air-cell pipe insulation	ACM	180 LF	Fair	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. Pipe gauges, dents, and open ends were observed.
Pipe insulation debris mixed with plaster on the floor.	ACM	1,000 SF	—	—

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Various types of floor tile and associated mastic	ACM	3,500 SF	Fair to poor	Most of the identified floor tiles were confirmed positive as per ET Environmental Corp. report dated August 24, 2000 and recent Langan's investigation. Mastic associated with these floor tiles was sampled and analyzed during recent Langan's investigation and was confirmed to be ACM. Up to two layers of floor tile/covering and mastic were observed at isolated locations. Hardwood flooring underneath floor tiles was mouldered and was in poor condition. Hardwood flooring was installed on concrete sub-flooring.
Electrical wire insulation	ACM	500 LF	Unknown	—
Wall and ceiling plaster	Non-ACM	—	Poor	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Sheetrock wallboard and joint compound	Non-ACM	—	Good to fair	Confirmed negative as per ET Environmental Corp. report dated August 24, 2000.
Cove base and associated mastic	Non-ACM	—	Fair	—
Roofs and Exteriors				
Original built-up roofing, flashing and mastic materials	ACM	50 SF	Good	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. See Note 1.
Window caulking and glazing putty	ACM	200 masonry window openings	Good to fair	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000.
Exterior door caulking	ACM	5 masonry door openings	Good	—
Floor joint fill material along perimeter building walls.	ACM	1,800 LF	Good	—

TABLE 1
SUMMARY OF ASBESTOS SURVEY FINDINGS
KINGSBRIDGE ARMORY
29 KINGSBRIDGE ROAD
BRONX, NEW YORK

Homogeneous Material	ACM or Non-ACM	Approximate Quantity of ACM	Condition	Comments
Caulking on gable ends and clerestory bands	ACM	12,000 SF of surface impacted by caulking presence	—	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000.
Inaccessible areas				
Block and air-cell pipe insulation	ACM	3,000 LF	Unknown	Confirmed positive as per ET Environmental Corp. report dated August 24, 2000. An allowance is provided for the presence of concealed ACM pipe insulation within wall and ceiling cavities.
Pipe insulation debris mixed with plaster on the floor and floor covering.	ACM	1,000 SF	—	An allowance is provided for the presence of concealed ACM pipe insulation within inaccessible building spaces.

Notes:

1. The ET report documented the built-up roofing material. Apparently, the building was observed to have fairly new built-up roofing. Based on our field observations and review of the Building Department records, it appears that as part of 2002 exterior restoration project, the built-up roofing materials and several windows in the building were replaced. Any roof cuts would void existing warranty, and therefore, the roofs were not sampled during our investigation.
2. Any suspect material that is not listed in this report must be presumed ACM until confirmed via laboratory testing.

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Table 2 – Budgetary Estimate for Asbestos Abatement

TABLE 2
BUDGETARY ESTIMATE FOR HAZMAT ABATEMENT
Kingsbridge Armory
29 West Kingsbridge Road
BRONX, NEW YORK

ACM or Presumed ACM	Quantity of ACM or Presumed ACM	Unit Price	Budgetary Estimate
SUB-BASEMENT			
Original mud-pack pipe joint insulation associated w/ fiberglass	3 Joint	$500	$1,500
BASEMENT			
Original mud-pack pipe joint insulation associated w/ fiberglass	20 joint	$15	$300
Block and air-cell pipe insulation	4,350 LF	$18	$78,300
Pipe insulation debris mixed with plaster, wood and other construction debris on the floor.	39,000 SF	$5	$195,000
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	25 CY	$300	$7,500
Various types of floor tile and associated mastic	300 SF	$7	$2,100
Electrical wire insulation	10,000 LF	$3	$30,000
Interior door caulking	3 DO	$100	$300
BASEMENT MEZZANINE			
Block and air-cell pipe insulation	1,125 LF	$12	$13,500
Pipe insulation debris mixed with plaster, wood and other construction debris on the floor.	17,500 SF	$5	$87,500
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	10 CY	$300	$3,000
Various types of floor tile and associated mastic	5,500 SF	$7	$38,500
Electrical wire insulation	3,000 LF	$3	$9,000
FIRST FLOOR			
Block and air-cell pipe insulation	120 LF	$50	$6,000
Pipe insulation debris mixed with plaster on the floor.	300 SF	$10	$3,000
Pipe insulation debris mixed with plaster, wood and other construction debris in black plastic bags.	5 CY	$300	$1,500
Various types of floor tile and associated mastic	9,500 SF	$7	$66,500
Ebony/Transite Electric switch panel	45 SF	$15	$675
Electrical wire insulation	10,000 LF	$3	$30,000
FIRST FLOOR MEZZANINE			
Pipe insulation debris mixed with plaster on the floor.	500 SF	$5	$2,500
Various types of floor tile and associated mastic	1,600 SF	$7	$11,200
Electrical wire insulation	1,000 LF	$3	$3,000

BUDGETARY ESTIMATE FOR HAZMAT ABATEMENT
Kingsbridge Armory
29 West Kingsbridge Road
BRONX, NEW YORK

ACM or Presumed ACM	Quantity of ACM or Presumed ACM	Unit Price	Budgetary Estimate
SECOND FLOOR			
Block and air-cell pipe insulation	250 LF	$15	$3,750
Pipe insulation debris on suspended ceiling plaster.	600 SF	$5	$3,000
Various types of floor tile and associated mastic	7,700 SF	$7	$53,900
Wall panel glue	1,600 SF	$6	$9,600
Mirror glue	20 SF	$6	$120
Electrical wire insulation	2,000 LF	$3	$6,000
THIRD FLOOR AND FOURTH TOWER LEVEL			
Block and air-cell pipe insulation	180 LF	$30	$5,400
Pipe insulation debris mixed with plaster on the floor.	1,000 SF	$5	$5,000
Various types of floor tile and associated mastic	3,500 SF	$7	$24,500
Electrical wire insulation	500 LF	$3	$1,500
ROOFS AND EXTERIORS			
Original built-up roofing, flashing and mastic materials	50 SF	$50	$2,500
Window caulking and glazing putty	200 WO	$500	$100,000
Exterior door caulking	5 DO	$100	$500
Floor joint fill material along perimeter building walls.	1,800 LF	$5	$9,000
INACCESSIBLE AREAS			
Block and air-cell pipe insulation concealed within wall and ceiling cavities	3,000 LF	$35	$105,000
Pipe insulation debris mixed with plaster on the floor and floor covering.	100 SF	$10	$1,000
TOTAL ASBESTOS ABATEMENT ESTIMATES			**$920,645**
ESTIMATED COST FOR THE MANAGEMENT AND REMEDIATION OF LEAD BASED PAINTED COMPONENTS			**$229,355**
ESTIMATED COST FOR THE REMOVAL OF PCB/MERCURY CONTAINING ELECTRICAL ARTICLES			**$50,000**
ESTIMATED TOTAL FOR PREPARATION OF DESIGN DOCUMENTS, PROJECT MONITORING, AIR SAMPLE ANALYSIS, CLOSURE REPORT, AND SUBMITTAL REVIEW			**$150,000**
ESTIMATED TOTAL FOR THE REMEDIATION OF HAZMAT			**$1,350,000**

Notes:

1. The aforementioned unit prices for asbestos removal are based on the location, size and complexity of the project, and assume that all abatement work will be completed in one phase. These estimates are for budgetary purposes only. Actual removal cost may vary depending upon the market conditions and time of the year ACM are being removed, and work phasing. The estimates include the cost for insurance, overhead, material, labor, disposal permits, OSHA sampling and analysis, and profits. Additionally, the estimated cost is also based on the assumption that union labor wage rate will be used for the workers' and supervisors' wages.

Results of Laboratory/ Chain-of-Custody

LANGAN

AmeriSci New York
117 EAST 30TH ST.
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-3114

PLM Bulk Asbestos Report

Langan Engineering & Environmental S
Attn: Vijay Patel
River Drive Center 1

Elmwood Park, NJ 07407

Date Received 09/12/08 **AmeriSci Job #** 208092383
Date Examined 09/15/08 **P.O. #**
ELAP # 11480 **Page** 1 **of** 15
RE: 5815101; Kingsbridge Armory; 29 West Kingsbridge Road, Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
PYB-1-A 1	208092383-01 **Location:** Pyro Blocks; 1st Floor	*No*	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
PYB-1-B 1	208092383-02 **Location:** Pyro Blocks; 1st Floor	*No*	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
BG-1-A 2	208092383-03 **Location:** Boiler Gasket; Boiler Room In Sub Basement	*No*	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 95 %, Non-fibrous 5 %			
BG-1-B 2	208092383-04 **Location:** Boiler Gasket; Boiler Room In Sub Basement	*No*	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Tan/Brown, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 75 %, Non-fibrous 25 %			
BEP-1-A 3	208092383-05 **Location:** Boiler Edge Patch Material; Boiler Room In Sub Basement	*No*	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 20 %, Non-fibrous 80 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
BEP-1-B 3	208092383-06 **Location:** Boiler Edge Patch Material; Boiler Room In Sub Basement	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 20 %, Non-fibrous 80 %			
PB-1-A 4	208092383-07 **Location:** Pressboard Material; Basement	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 95 %, Non-fibrous 5 %			
PB-1-B 4	208092383-08 **Location:** Pressboard Material; Basement	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 95 %, Non-fibrous 5 %			
WI-1-A 5	208092383-09 **Location:** Wire Wrap Insulation; Seating Area	***Yes***	14 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey/Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 14.0 % **Other Material:** Non-fibrous 48.9 %			
WI-1-B 5	208092383-10 **Location:** Wire Wrap Insulation; Seating Area		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
EB-1-A 6	208092383-11 **Location:** Electric Panel Board; Basement	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
EB-1-B 6	208092383-12 **Location:** Electric Panel Board; Basement	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
SSB-1-A 7	208092383-13 **Location:** Safety Switch Backing Material; Seat Level	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
SSB-1-B 7	208092383-14 **Location:** Safety Switch Backing Material; Seat Level	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
TR-1-A 8	208092383-15 **Location:** Transite Electrical Panel; 1st Floor	***Yes***	22.2 % (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Cementitious, Bulk Material **Asbestos Types:** Chrysotile 22.2 % **Other Material:** Non-fibrous 77.8 %			
TR-1-B 8	208092383-16 **Location:** Transite Electrical Panel; 1st Floor		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
DB-1-A 9	208092383-17 **Location:** Debris On The Floor Pipe Insulation; Basement	***Yes***	50 % (by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** Chrysotile 50.0 % **Other Material:** Non-fibrous 50 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
DB-1-B	208092383-18		NA/PS
9	**Location:** Debris On The Floor Pipe Insulation; Basement		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
FLEX-1-A	208092383-19	***No***	NAD
10	**Location:** Vibration Damper Cloth; Basement		(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 90 %, Non-fibrous 10 %			
FLEX-1-B	208092383-20	***No***	NAD
10	**Location:** Vibration Damper Cloth; Basement		(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 90 %, Non-fibrous 10 %			
MPJ-1-A	208092383-21	***Yes***	44.4 %
11	**Location:** Mud Pack Pipe Joint Attached With Old Fiberglass Pipe Insulation; Center Restroom On South Side- Basement		(by NYS ELAP 198.1) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** Chrysotile 44.4 % **Other Material:** Non-fibrous 55.6 %			
FJF-1-A	208092383-22	***Yes***	1.5 %
12	**Location:** Floor Joint Fill Material; Exterior- West Side By Building Wall		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 1.5 % **Other Material:** Non-fibrous 4.9 %			
FJF-1-B	208092383-23		NA/PS
12	**Location:** Floor Joint Fill Material; Exterior- West Side By Building Wall		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WPG-1-A	208092383-24	***Yes***	7.2 %
13	**Location:** Wooden Wall Panel Glue; 2nd Floor		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 7.2 % **Other Material:** Non-fibrous 48.7 %			
WPG-1-B	208092383-25		NA/PS
13	**Location:** Wooden Wall Panel Glue; 2nd Floor		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
WGL-1-A	208092383-26	***No***	NAD
14	**Location:** Glue Attached With Cork Wall Tiles; 1st Floor Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 45.4 %			
WGL-1-B	208092383-27	***No***	NAD
14	**Location:** Glue Attached With Cork Wall Tiles; 1st Floor Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 44.4 %			
MG-1-A	208092383-28	***Yes***	3.2 %
15	**Location:** Mastic Attached With Mirrors On The Wall; 2nd Floor		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 3.2 % **Other Material:** Non-fibrous 55.1 %			
MG-1-B	208092383-29		NA/PS
15	**Location:** Mastic Attached With Mirrors On The Wall; 2nd Floor		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
IDC-1-A 16	208092383-30 **Location:** Interior Door Caulking; Basement	***Yes***	6.1 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 3.0 %, Anthophyllite 3.0 % **Other Material:** Fibrous Talc 10 %, Non-fibrous 34 %			
IDC-1-B 16	208092383-31 **Location:** Interior Door Caulking; Basement		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
DC-1-A 17	208092383-32 **Location:** Door Caulking; Exterior	***Yes***	2.4 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 2.4 %, Anthophyllite <1 % pc **Other Material:** Fibrous glass 5 %, Non-fibrous 30.1 %			
DC-1-B 17	208092383-33 **Location:** Door Caulking; Exterior		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
WC-1-A 18	208092383-34 **Location:** Window Caulking; Exterior	***Yes***	3.4 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 1.7 %, Anthophyllite 1.7 % **Other Material:** Fibrous Talc 5 %, Non-fibrous 34.5 %			
WC-1-B 18	208092383-35 **Location:** Window Caulking; Exterior		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
BBM-1-A 19	208092383-36L1 **Location:** Covebase; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 27.5 %			
BBM-1-A 19	208092383-36L2 **Location:** Covebase Mastic; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.2 %			
BBM-1-B 19	208092383-37L1 **Location:** Covebase; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 25.9 %			
BBM-1-B 19	208092383-37L2 **Location:** Covebase Mastic; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.9 %			
BBM-2-A 20	208092383-38L1 **Location:** 6" Black Covebase; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.8 %			
BBM-2-A 20	208092383-38L2 **Location:** 6" Black Covebase Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.3 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
BBM-2-B 20	208092383-39L1 **Location:** 6" Black Covebase; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 29.3 %			
BBM-2-B 20	208092383-39L2 **Location:** 6" Black Covebase Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.6 %			
FC-1-A 21	208092383-40 **Location:** Black Linoleum Floor Covering; Basement Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 19.1 %			
FC-1-B 21	208092383-41 **Location:** Black Linoleum Floor Covering; Basement Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 18 %			
FC-2-A 22	208092383-42 **Location:** Brown Linoleum Floor Covering; Middle Stair Room Basement Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 16.3 %			
FC-2-B 22	208092383-43 **Location:** Brown Linoleum Floor Covering; Middle Stair Room Basement Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 16.1 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-1-A 23	208092383-44 **Location:** 9" Sq. Beige Floor Tiles/ No Mastic; Basement- North Side	***Yes***	4 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 17.8 %			
FT-1-B 23	208092383-45 **Location:** 9" Sq. Beige Floor Tiles/ No Mastic; Basement- North Side		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
FT-2A 24	208092383-46L1 **Location:** L1: 12" Sq. White Floor Tile; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.9 %			
FT-2A 24	208092383-46L2 **Location:** L1: 12" Sq. White Floor Tile Mastic; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.5 %			
FT-2A 24	208092383-46L3 **Location:** L2: 12" Sq. Beige Floor Tile; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 6.4 %			
FT-2A 24	208092383-46L4 **Location:** L2: 12" Sq. Beige Floor Tile Mastic; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 5.6 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-2-B 24	208092383-47L1 **Location:** L1: 12" Sq. White Floor Tiles; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.8 %			
FT-2-B 24	208092383-47L2 **Location:** L1: 12" Sq. White Floor Tiles Mastic; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 2.7 %			
FT-2-B 24	208092383-47L3 **Location:** L2: 12" Sq. Beige Floor Tiles; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 3.4 %			
FT-2-B 24	208092383-47L4 **Location:** L2: 12" Sq. Beige Floor Tiles Mastic; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 5.6 %			
FT-2-C 24	208092383-48L1 **Location:** 12" Sq. Beige Floor Tiles - Only 1 Layer; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 6.9 %			
FT-2-C 24	208092383-48L2 **Location:** 12" Sq. Beige Floor Tiles Mastic- Only 1 Layer; Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 7 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-3-A	208092383-49L1	***Yes***	6.9 %
25	**Location:** Black Floor Tiles; Basement- Mezzanine Under Plywood & FT-2		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 6.9 % **Other Material:** Non-fibrous 34.6 %			
FT-3-A	208092383-49L2	***No***	NAD
25	**Location:** Black Floor Tile Mastic/ Felt Paper; Basement- Mezzanine Under Plywood & FT-2		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 10.8 %			
FT-3-B	208092383-50L1		NA/PS
25	**Location:** Black Floor Tiles; Basement- Mezzanine Under Plywood & FT-2		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
FT-3-B	208092383-50L2	***Yes***	Trace (<0.25 % pc)
25	**Location:** Black Floor Tile Mastic/ Felt Paper; Basement- Mezzanine Under Plywood & FT-2		(ELAP 198.6; 400pc) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile <0.25 % pc **Other Material:** Non-fibrous 9.8 %			
FT-4-A	208092383-51L1	***Yes***	5.5 %
26	**Location:** 12" Sq. Tan Wood Design Floor Tiles; 1st Floor- Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 5.5 % **Other Material:** Non-fibrous 23.5 %			
FT-4-A	208092383-51L2	***No***	NAD
26	**Location:** 12" Sq. Tan Wood Design Floor Tiles Mastic; 1st Floor- Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Brown/Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 19.5 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-4-B 26	208092383-52L1 **Location:** 12" Sq. Tan Wood Design Floor Tiles; 1st Floor- Mezzanine		NA/PS
	Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**		
FT-4-B 26	208092383-52L2 **Location:** 12" Sq. Tan Wood Design Floor Tiles Mastic; 1st Floor- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
	Analyst Description: Brown/Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 19.8 %		
FT-5-A 27	208092383-53L1 **Location:** 12" Sq. Terra Cotta Red With Brown Spackles FT; 2nd Floor	***Yes***	3.7 % (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
	Analyst Description: Red, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 3.7 % **Other Material:** Non-fibrous 25.7 %		
FT-5-A 27	208092383-53L2 **Location:** 12" Sq. Terra Cotta Red With Brown Spackles FT Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
	Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 27.1 %		
FT-5-B 27	208092383-54L1 **Location:** 12" Sq. Terra Cotta Red With Brown Spackles FT; 2nd Floor		NA/PS
	Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**		
FT-5-B 27	208092383-54L2 **Location:** 12" Sq. Terra Cotta Red With Brown Spackles FT Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
	Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 29.1 %		

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-6-A 28	208092383-55L1 **Location:** 12" Sq. Dark Brown Floor Tile; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.5 %			
FT-6-A 28	208092383-55L2 **Location:** 12" Sq. Dark Brown Floor Tile Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 19.8 %			
FT-6-B 28	208092383-56L1 **Location:** 12" Sq. Dark Brown Floor Tile; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.3 %			
FT-6-B 28	208092383-56L2 **Location:** 12" Sq. Dark Brown Floor Tile Mastic; 2nd Floor	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 12.7 %			
MA-1-A 29	208092383-57 **Location:** Mastic Attached With 9" Sq. Red Floor Tiles (No FT); Middle Stair Room Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 9.7 %			
MA-1-B 29	208092383-58 **Location:** Mastic Attached With 9" Sq. Red Floor Tiles (No FT); Middle Stair Room Basement- Mezzanine	***No***	NAD (by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 24.8 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
MA-2-A	208092383-59	***No***	NAD
30	**Location:** Mastic/ Felt Paper Attached With 9" Sq. Brown Floor Tiles; 1st Floor		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 10.7 %			
MA-2-B	208092383-60	***No***	NAD
30	**Location:** Mastic/ Felt Paper Attached With 9" Sq. Brown Floor Tiles; 1st Floor		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.8 %			
MA-3-A	208092383-61	***No***	NAD
31	**Location:** Mastic/ Felt Paper Attached With 9" Sq. Black Floor Tiles; 1st Floor		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 2.7 %			
MA-3-B	208092383-62	***No***	NAD
31	**Location:** Mastic/ Felt Paper Attached With 9" Sq. Black Floor Tiles; 1st Floor		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.9 %			
MA-4-A	208092383-63	***No***	NAD
32	**Location:** Mastic/ Felt Paper Attached With 9" Sq. Blue Floor Tiles; 1st Floor		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11.4 %			
MA-4-B	208092383-64	***No***	NAD
32	**Location:** Mastic/ Felt Paper Attached With 9" Sq. Blue Floor Tiles; 1st Floor		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 10.7 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5815101; Kingsbridge Armory; 29 West Kingsbridge Road,
Bronx, New York

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
MA-5-A	208092383-65	***No***	NAD
33	**Location:** Mastic Attached With 9" Sq. Wood Design Floor Tiles; 1st Floor- Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 6.8 %			
MA-5-B	208092383-66	***No***	NAD
33	**Location:** Mastic Attached With 9" Sq. Wood Design Floor Tiles; 1st Floor- Mezzanine		(by NYS ELAP 198.6) by John P. Koubiadis on 09/15/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 4.3 %			

Reporting Notes:

Analyzed by: John P. Koubiadis

*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples or 198.6 for NOB samples (NY ELAP Lab ID11480); Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile,FR 59,146,38970,8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab. This PLM report relates ONLY to the items tested. AIHA Lab # 102843.

Reviewed By: _____

_____END OF REPORT_____

Table I
Summary of Bulk Asbestos Analysis Results
5815101; Kingsbridge Armory; 29 West Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	PYB-1-A	1	----	----	----	----	NAD	NA
Location:	Pyro Blocks; 1st Floor							
02	PYB-1-B	1	----	----	----	----	NAD	NA
Location:	Pyro Blocks; 1st Floor							
03	BG-1-A	2	----	----	----	----	NAD	NA
Location:	Boiler Gasket; Boiler Room In Sub Basement							
04	BG-1-B	2	----	----	----	----	NAD	NA
Location:	Boiler Gasket; Boiler Room In Sub Basement							
05	BEP-1-A	3	----	----	----	----	NAD	NA
Location:	Boiler Edge Patch Material; Boiler Room In Sub Basement							
06	BEP-1-B	3	----	----	----	----	NAD	NA
Location:	Boiler Edge Patch Material; Boiler Room In Sub Basement							
07	PB-1-A	4	----	----	----	----	NAD	NA
Location:	Pressboard Material; Basement							
08	PB-1-B	4	----	----	----	----	NAD	NA
Location:	Pressboard Material; Basement							
09	WI-1-A	5	1.276	19.2	17.9	48.9	Chrysotile 14.0	NA
Location:	Wire Wrap Insulation; Seating Area							
10	WI-1-B	5	1.123	21.8	16.9	61.3	NA/PS	NA
Location:	Wire Wrap Insulation; Seating Area							
11	EB-1-A	6	----	----	----	----	NAD	NA
Location:	Electric Panel Board; Basement							
12	EB-1-B	6	----	----	----	----	NAD	NA
Location:	Electric Panel Board; Basement							
13	SSB-1-A	7	----	----	----	----	NAD	NA
Location:	Safety Switch Backing Material; Seat Level							
14	SSB-1-B	7	----	----	----	----	NAD	NA
Location:	Safety Switch Backing Material; Seat Level							
15	TR-1-A	8	----	----	----	----	Chrysotile 22.2	NA
Location:	Transite Electrical Panel; 1st Floor							
16	TR-1-B	8	----	----	----	----	NA/PS	NA
Location:	Transite Electrical Panel; 1st Floor							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
5815101; Kingsbridge Armory; 29 West Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
17	DB-1-A	9	----	----	----	----	Chrysotile 50.0	NA
Location:	Debris On The Floor Pipe Insulation; Basement							
18	DB-1-B	9	----	----	----	----	NA/PS	NA
Location:	Debris On The Floor Pipe Insulation; Basement							
19	FLEX-1-A	10	----	----	----	----	NAD	NA
Location:	Vibration Damper Cloth; Basement							
20	FLEX-1-B	10	----	----	----	----	NAD	NA
Location:	Vibration Damper Cloth; Basement							
21	MPJ-1-A	11	----	----	----	----	Chrysotile 44.4	NA
Location:	Mud Pack Pipe Joint Attached With Old Fiberglass Pipe Insulation; Center Restroom On South Side- Basement							
22	FJF-1-A	12	0.172	90.1	3.5	4.9	Chrysotile 1.5	NA
Location:	Floor Joint Fill Material; Exterior- West Side By Building Wall							
23	FJF-1-B	12	0.382	75.9	3.9	20.2	NA/PS	NA
Location:	Floor Joint Fill Material; Exterior- West Side By Building Wall							
24	WPG-1-A	13	1.298	34.9	9.2	48.7	Chrysotile 7.2	NA
Location:	Wooden Wall Panel Glue; 2nd Floor							
25	WPG-1-B	13	0.565	32.2	27.4	40.4	NA/PS	NA
Location:	Wooden Wall Panel Glue; 2nd Floor							
26	WGL-1-A	14	0.425	52.5	2.1	45.4	NAD	NAD
Location:	Glue Attached With Cork Wall Tiles; 1st Floor Mezzanine							
27	WGL-1-B	14	0.432	53.7	1.9	44.4	NAD	NAD
Location:	Glue Attached With Cork Wall Tiles; 1st Floor Mezzanine							
28	MG-1-A	15	0.504	25.2	16.5	55.1	Chrysotile 3.2	NA
Location:	Mastic Attached With Mirrors On The Wall; 2nd Floor							
29	MG-1-B	15	0.361	27.4	17.2	55.4	NA/PS	NA
Location:	Mastic Attached With Mirrors On The Wall; 2nd Floor							
30	IDC-1-A	16	0.795	27.2	22.8	44.0	Chrysotile 3.0	NA
Location:	Interior Door Caulking; Basement						Anthophyllite 3.0	
31	IDC-1-B	16	0.507	28.8	22.1	49.1	NA/PS	NA
Location:	Interior Door Caulking; Basement							
32	DC-1-A	17	0.451	53.4	9.1	35.1	Chrysotile 2.4	NA
Location:	Door Caulking; Exterior						Anthophyllite <1	

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
5815101; Kingsbridge Armory; 29 West Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
33	DC-1-B	17	0.803	38.1	10.6	51.3	NA/PS	NA
Location:	Door Caulking; Exterior							
34	WC-1-A	18	0.198	41.9	15.2	39.5	Chrysotile 1.7	NA
Location:	Window Caulking; Exterior						Anthophyllite 1.7	
35	WC-1-B	18	0.484	39.3	12.0	48.8	NA/PS	NA
Location:	Window Caulking; Exterior							
36L1	BBM-1-A	19	0.364	40.9	31.6	27.5	NAD	NAD
Location:	Covebase; Basement- Mezzanine							
36L2	BBM-1-A	19	0.416	30.3	69.5	0.2	NAD	NAD
Location:	Covebase Mastic; Basement- Mezzanine							
37L1	BBM-1-B	19	0.482	42.3	31.7	25.9	NAD	NAD
Location:	Covebase; Basement- Mezzanine							
37L2	BBM-1-B	19	0.435	31.0	68.0	0.9	NAD	NAD
Location:	Covebase Mastic; Basement- Mezzanine							
38L1	BBM-2-A	20	0.363	37.2	51.0	11.8	NAD	NAD
Location:	6" Black Covebase; 2nd Floor							
38L2	BBM-2-A	20	0.312	28.8	70.8	0.3	NAD	NAD
Location:	6" Black Covebase Mastic; 2nd Floor							
39L1	BBM-2-B	20	0.559	38.3	32.4	29.3	NAD	NAD
Location:	6" Black Covebase; 2nd Floor							
39L2	BBM-2-B	20	0.344	27.3	72.1	0.6	NAD	NAD
Location:	6" Black Covebase Mastic; 2nd Floor							
40	FC-1-A	21	0.747	71.8	9.1	19.1	NAD	NAD
Location:	Black Linoleum Floor Covering; Basement Mezzanine							
41	FC-1-B	21	0.668	71.1	10.9	18.0	NAD	NAD
Location:	Black Linoleum Floor Covering; Basement Mezzanine							
42	FC-2-A	22	0.719	72.9	10.8	16.3	NAD	NAD
Location:	Brown Linoleum Floor Covering; Middle Stair Room Basement Mezzanine							
43	FC-2-B	22	0.669	72.9	10.9	16.1	NAD	NAD
Location:	Brown Linoleum Floor Covering; Middle Stair Room Basement Mezzanine							
44	FT-1-A	23	0.239	20.1	58.2	17.8	Chrysotile 4.0	NA
Location:	9" Sq. Beige Floor Tiles/ No Mastic; Basement- North Side							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
5815101; Kingsbridge Armory; 29 West Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
45	FT-1-B	23	0.604	20.9	47.5	31.6	NA/PS	NA
Location:	9" Sq. Beige Floor Tiles/ No Mastic; Basement- North Side							
46L1	FT-2A	24	0.999	11.5	87.6	0.9	NAD	NAD
Location:	L1: 12" Sq. White Floor Tile; Basement- Mezzanine							
46L2	FT-2A	24	0.067	22.4	76.1	1.5	NAD	NAD
Location:	L1: 12" Sq. White Floor Tile Mastic; Basement- Mezzanine							
46L3	FT-2A	24	0.327	21.7	71.9	6.4	NAD	NAD
Location:	L2: 12" Sq. Beige Floor Tile; Basement- Mezzanine							
46L4	FT-2A	24	0.393	25.7	68.7	5.6	NAD	NAD
Location:	L2: 12" Sq. Beige Floor Tile Mastic; Basement- Mezzanine							
47L1	FT-2-B	24	0.621	11.0	87.3	1.8	NAD	NAD
Location:	L1: 12" Sq. White Floor Tiles; Basement- Mezzanine							
47L2	FT-2-B	24	0.112	22.3	75.0	2.7	NAD	NAD
Location:	L1: 12" Sq. White Floor Tiles Mastic; Basement- Mezzanine							
47L3	FT-2-B	24	0.667	22.6	73.9	3.4	NAD	NAD
Location:	L2: 12" Sq. Beige Floor Tiles; Basement- Mezzanine							
47L4	FT-2-B	24	0.213	39.9	54.5	5.6	NAD	NAD
Location:	L2: 12" Sq. Beige Floor Tiles Mastic; Basement- Mezzanine							
48L1	FT-2-C	24	0.549	21.1	71.9	6.9	NAD	NAD
Location:	12" Sq. Beige Floor Tiles - Only 1 Layer; Basement- Mezzanine							
48L2	FT-2-C	24	0.270	65.6	27.4	7.0	NAD	NAD
Location:	12" Sq. Beige Floor Tiles Mastic- Only 1 Layer; Basement- Mezzanine							
49L1	FT-3-A		0.337	27.6	30.9	41.5	Chrysotile 6.9	NA
Location:	Black Floor Tiles; Basement- Mezzanine Under Plywood & FT-2							
49L2	FT-3-A	25	0.167	80.8	8.4	10.8	NAD	NAD
Location:	Black Floor Tile Mastic/ Felt Paper; Basement- Mezzanine Under Plywood & FT-2							
50L1	FT-3-B		0.414	28.7	27.1	44.2	NA	NA
Location:	Black Floor Tiles; Basement- Mezzanine Under Plywood & FT-2							
50L2	FT-3-B	25	0.214	81.8	8.4	7.8	Chrysotile <0.25	Chrysotile 2.0
Location:	Black Floor Tile Mastic/ Felt Paper; Basement- Mezzanine Under Plywood & FT-2							
51L1	FT-4-A	26	1.003	26.3	44.7	23.5	Chrysotile 5.5	NA
Location:	12" Sq. Tan Wood Design Floor Tiles; 1st Floor- Mezzanine							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
5815101; Kingsbridge Armory; 29 West Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
51L2	FT-4-A	26	0.215	54.4	26.0	19.5	NAD	NAD
Location:	12" Sq. Tan Wood Design Floor Tiles Mastic; 1st Floor- Mezzanine							
52L1	FT-4-B	26	0.590	26.8	44.7	28.5	NA/PS	NA
Location:	12" Sq. Tan Wood Design Floor Tiles; 1st Floor- Mezzanine							
52L2	FT-4-B	26	0.177	58.8	21.5	19.8	NAD	NAD
Location:	12" Sq. Tan Wood Design Floor Tiles Mastic; 1st Floor- Mezzanine							
53L1	FT-5-A	27	0.562	23.7	47.0	25.7	Chrysotile 3.7	NA/PS
Location:	12" Sq. Terra Cotta Red With Brown Spackles FT; 2nd Floor							
53L2	FT-5-A	27	0.059	39.0	33.9	21.7	NAD	Chrysotile 5.4
Location:	12" Sq. Terra Cotta Red With Brown Spackles FT Mastic; 2nd Floor							
54L1	FT-5-B	27	0.266	24.4	54.5	21.1	NA/PS	NA/PS
Location:	12" Sq. Terra Cotta Red With Brown Spackles FT; 2nd Floor							
54L2	FT-5-B	27	0.086	50.0	20.9	29.1	NAD	NA/PS
Location:	12" Sq. Terra Cotta Red With Brown Spackles FT Mastic; 2nd Floor							
55L1	FT-6-A	28	0.617	24.8	63.7	11.4	NAD	Chrysotile Trace
Location:	12" Sq. Dark Brown Floor Tile; 2nd Floor							
55L2	FT-6-A	28	0.167	62.3	18.0	19.6	NAD	Chrysotile <1.0
Location:	12" Sq. Dark Brown Floor Tile Mastic; 2nd Floor							
56L1	FT-6-B	28	0.586	24.1	64.7	11.3	NAD	NAD
Location:	12" Sq. Dark Brown Floor Tile; 2nd Floor							
56L2	FT-6-B	28	0.063	57.1	30.2	12.7	NAD	NAD
Location:	12" Sq. Dark Brown Floor Tile Mastic; 2nd Floor							
57	MA-1-A	29	0.093	63.4	26.9	8.2	NAD	Chrysotile 1.5
Location:	Mastic Attached With 9" Sq. Red Floor Tiles (No FT); Middle Stair Room Basement- Mezzanine							
58	MA-1-B	29	0.105	50.5	24.8	24.8	NAD	NA/PS
Location:	Mastic Attached With 9" Sq. Red Floor Tiles (No FT); Middle Stair Room Basement- Mezzanine							
59	MA-2-A	30	0.197	84.8	4.6	10.6	NAD	Chrysotile Trace
Location:	Mastic/ Felt Paper Attached With 9" Sq. Brown Floor Tiles; 1st Floor							
60	MA-2-B	30	0.451	84.0	4.2	11.7	NAD	Chrysotile Trace
Location:	Mastic/ Felt Paper Attached With 9" Sq. Brown Floor Tiles; 1st Floor							
61	MA-3-A	31	0.291	91.4	5.8	2.6	NAD	Chrysotile Trace
Location:	Mastic/ Felt Paper Attached With 9" Sq. Black Floor Tiles; 1st Floor							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
5815101; Kingsbridge Armory; 29 West Kingsbridge Road, Bronx, New York

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
62	MA-3-B	31	0.212	93.4	4.7	1.8	NAD	Chrysotile Trace
Location:	Mastic/ Felt Paper Attached With 9" Sq. Black Floor Tiles; 1st Floor							
63	MA-4-A	32	0.166	84.3	4.2	11.3	NAD	Chrysotile Trace
Location:	Mastic/ Felt Paper Attached With 9" Sq. Blue Floor Tiles; 1st Floor							
64	MA-4-B	32	0.140	85.0	4.3	10.7	NAD	NAD
Location:	Mastic/ Felt Paper Attached With 9" Sq. Blue Floor Tiles; 1st Floor							
65	MA-5-A	33	0.059	84.7	8.5	5.1	NAD	Chrysotile 1.7
Location:	Mastic Attached With 9" Sq. Wood Design Floor Tiles; 1st Floor- Mezzanine							
66	MA-5-B	33	0.138	88.4	7.2	4.3	NAD	NA/PS
Location:	Mastic Attached With 9" Sq. Wood Design Floor Tiles; 1st Floor- Mezzanine							

Analyzed by: Aleksandr Barengolts; Date Analyzed 9/15/2008

**Quantitative Analysis (Semi/Full); Bulk Asbestos Analysis - PLM by EPA 600/M4-82-020 per 40 CFR or ELAP 198.1 for New York friable samples or ELAP 198.6 for New York NOB samples; TEM (Semi/Full) by EPA 600/R-93/116 (not covered by NVLAP Bulk accreditation); or ELAP 198.4 for New York samples; NAD = no asbestos detected during a quantitative analysis; NA = not analyzed; Trace = <1%; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only; Qualitative Analysis: Asbestos analysis results of "Present" or "NVA = No Visible Asbestos" represents results for Qualitative PLM or TEM Analysis only (no accreditation coverage available from any regulatory agency for qualitative analyses); AIHA Lab # 102843, NVLAP Lab Code 200546-0, NYSDOH ELAP LAB ID 11480.

Warning Note: PLM limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris for which PLM evaluation is recommended (i.e. soils and other heterogenous materials).

Reviewed By:

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CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	Kingsbridge Armory	Project. No.:	5815101
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel
Site Location:	Bronx, New York	Phone No:	(201) 794-6900
Sampled By:	M. Baran/S. Patel	License #:	103281
Company:	LANGAN		72hrs TAT

ANALYSIS REQUESTED: Asbestos: **XX** Lead:
BULK: **XX**

Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
PYB-1-A	pyro-bloeks	1st Floor	9/4,5 &8/08	X				
PYB-1-B	↓	↓	↓	X				
BG-1-A	Boiler Gasket	Boiler room in sub basement		X	20809238 3 -			
BG-1-B	↓	↓		X				
BEP-1-A	Boiler edge Patch materials			X				
BEP-1-B	↓	↓		X				
PB-1-A	Pressboard material	Basement		X				
PB-1-B	↓	↓		X				
WI-1-A	Wire wrap insulation	seating area		X				
WI-1-B	↓	↓	↓	X				

Total No. of Samples: 10
Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	1037
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

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CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

				ANALYSIS REQUESTED: Asbestos: XX				Lead:
Project Name:	Kingsbridge Armory	Project. No.:	5815101	BULK: XX				
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel					
Site Location:	Bronx, New York	Phone No:	(201) 794-6900	PLM	PLM-NOB	TEM	AAS	TCLP
Sampled By:	M. Baran/S. Patel	License #:	103281					
Company:	LANGAN		72hrs TAT					

Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
EB-1-A	Electric panel board	Basement	9/4,5 &8/08	X				
EB-1-B	↓	↓	↓	X				
SSB-1-A	Safety switch backing material	seat level		X	20809283-			
SSB-1-B	↓	↓	↓	X				
TR-1-A	Transite electrical panel	1st Floor		X				
TR-1-B	↓	↓	↓	X				
DB-1-A	Debris on the floor Pipe insulation	Basement		X				
DB-1-B	↓	↓	↓	X				
FLEX-1-A	Vibration damper cloth	Basement		X				
FLEX-1-B	↓	↓	↓	X				

Total No. of Samples: 10

Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	1037
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

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Project Name:	Kingsbridge Armory	Project. No.:	5815101
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel
Site Location:	Bronx, New York	Phone No:	(201) 794-6900
Sampled By:	M. Baran/S. Patel	License #:	103281
Company:	LANGAN		72hrs TAT

Sample ID Number	Description of Sample	Location	Sampling Date	ANALYSIS REQUESTED: Asbestos: XX BULK: XX PLM	PLM-NOB	TEM	AAS	Lead: TCLP
					208092383-			
MPJ-1-A	Mudpack pipe joint attached with old fiberglass pipe insulation	Center restroom on southside - Basement	9/4,5 &8/08	X				
FJF-1-A	Floor joint fill material	Exterior - Westside by building wall		X	X	X		
FJF-1-B	↓	↓		X	X	X		
WPG-1-A	Wooden wall panel glue	2nd floor			X	X		
WPG-1-B	↓	↓			X	X		
WGL-1-A	Glue attached with cork wall tiles	1st Floor Mezza-nine			X	X		
WGL-1-B	↓	↓			X	X		
MG-1-A	Mastic attached with mirrors on the wall	2nd Floor			X	X		
MG-1-B	↓	↓			X	X		
/	/	/						

Total No. of Samples: 09

Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	
Company: LANGAN		Company: 1057

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

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				ANALYSIS REQUESTED: Asbestos: XX				Lead:
Project Name:	Kingsbridge Armory	Project. No.:	5815101	BULK: XX				
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel					
Site Location:	Bronx, New York	Phone No:	(201) 794-6900	PLM	PLM-NOB	TEM	AAS	TCLP
Sampled By:	M. Baran/S. Patel	License #:	103281					
Company:	LANGAN		72hrs TAT					

Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
IDC-1-A	Interior door caulking	Basement	9/4,5 &8/08		X	X		
IDC-1-B	↓	↓	↓		X	X		
DC-1-A	Door Caulking	Exterior			X	X		
DC-1-B	↓	↓			X	X		
WC-1-A	Window Caulking				X	X		
WC-1-B	↓	↓			X	X		
BBM-1-A	Cove base and mastic	Basement - Mezzanine			X	X		
BBM-1-B	↓	↓			X	X		
BBM-2-A	6" black cove base and mastic	2nd floor			X	X		
BBM-2-B	↓	↓	↓		X	X		

2080923833

Total No. of Samples: 10

Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

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Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	1037
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

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				ANALYSIS REQUESTED: Asbestos: XX				Lead:
Project Name:	Kingsbridge Armory	Project. No.:	5815101	BULK: XX				
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel					
Site Location:	Bronx, New York	Phone No:	(201) 794-6900	PLM	PLM-NOB	TEM	AAS	TCLP
Sampled By:	M. Baran/S. Patel	License #:	103281					
Company:	LANGAN		72hrs TAT					

Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
FC-1-A	Black linoleum floor covering	Basement Mezzanine	9/4,5 &8/08		X	X		
FC-1-B	↓	↓	↓		X	X		
FC-2-A	Brown linoleum floor covering	Middle stair room Basement Mezzaine	↓		X	X		
FC-2-A	↓	↓	↓		X	X		
FT-1-A	9"sq. Beige floor tiles/ NO mastic	Basement - North side	↓		X	X		
FT-1-B	↓	↓	↓		X	X		
FT-2-A	L1: 12"sq. white floor tiles and mastic	Basement - Mezzanine	↓		X	X		
	L2: 12"sq. beige floor tiles and mastic	↓	↓		X	X		
FT-2-B	↓	↓	↓		X	X		
FT-2-C	12"sq. beige floor tiles and mastic - Only 1 layer	↓	↓		X	X		

2080923833

Total No. of Samples: 09

Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12 1037
Fedex Delivery	TIME:	
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

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CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	Kingsbridge Armory	Project. No.:	5815101
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel
Site Location:	Bronx, New York	Phone No:	(201) 794-6900
Sampled By:	M. Baran/S. Patel	License #:	103281
Company:	LANGAN		72hrs TAT

Sample ID Number	Description of Sample	Location	Sampling Date	ANALYSIS REQUESTED: Asbestos: XX BULK: XX PLM	PLM-NOB	TEM	Lead: AAS	TCLP
FT-3-A	Black floor tiles and mastic/felt paper	Basement-Mezzanine under Plywood & FT-2	9/4,5 &8/08		X	X		
FT-3-B	↓	↓	↓		X	X		
FT-4-A	12" sq. tan wood design floor tiles and mastic	1st floor-Mezzanine			X	X	2080923	83
FT-4-B	↓	↓			X	X		
FT-5-A	12" sq. terra cotta red with brown speckles FT and mastic	2nd Floor			X	X		
FT-5-B	↓	↓			X	X		
FT-6-A	12" sq. dark brown floor tiles and mastic	2nd Floor			X	X		
FT-6-B	↓	↓			X	X		
MA-1-A	Mastic attached with 9" sq. red floor tiles (No FT)	Middle stair room Basement-Mezzanine			X	X		
MA-1-B	↓	↓	↓		X	X		

Total No. of Samples: 10

Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	0937
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

Langan
Engineering and Environmental Services

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

☒ River Drive Center I
Elmwood Park, NJ 07407
Phone: 201-794-6900
Fax: 201-794-7501

☐ 90 West Street
New York, NY 10006-1039
Phone: 212-964-7888
Fax: 212-964-7885

☐ Georgetown Crossing
3655 Route 202, Ste 225
Doylestown, PA 8901-1699
Phone: 215-348-7101
Fax: 215-348-7125

☐ 1 Penn Center & Suburban Stn
1617 JFK Boulevard, Ste 889
Philadelphia, PA 19103
Phone: 215-864-0640
Fax: 215-864-0671

☐ Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511-6107
Phone: 203-562-5771
Fax: 203-789-6142

				ANALYSIS REQUESTED: Asbestos: XX				Lead:
Project Name:	Kingsbridge Armory	Project. No.:	5815101	BULK: XX				
Address:	29 West Kingsbridge Road	Auth. By:	Vijay Patel					
Site Location:	Bronx, New York	Phone No:	(201) 794-6900	PLM	PLM-NOB	TEM	AAS	TCLP
Sampled By:	M. Baran/S. Patel	License #:	103281					
Company:	LANGAN		72hrs TAT					

Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
MA-2-A	Mastic/Felt paper attached with 9" sq. brown floor tiles,	1st Floor	9/4,5 &8/08		X	X		
MA-2-B	↓	↓	↓		X	X		
MA-3-A	Mastic/Felt paper attached with 9"sq. black floor tiles	1st Floor			X	X		
MA-3-B	↓	↓	↓		X	X		
MA-4-A	Mastic/Felt attached with 9"sq. blue floor tiles	1st Floor			X	X		
MA-4-B	↓	↓	↓		X	X		
MA-5-A	Mastic attached with 9"sq. wood design floor tiles	1st Floor-Mezzanine			X	X		
MA-5-B	↓	↓	↓		X	X		

2080923837

Total No. of Samples: 08

Laboratory Instructions/Turnaround Requested: 72hrs TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer

Relinquished By: Sanjay Patel	DATE:	Received By:
Sanjay Patel	9/11/08	9/12
Fedex Delivery	TIME:	1037
Company: LANGAN		Company:

Relinquished By:	DATE:	Received By:
	TIME:	
Company: LANGAN		Company:

Laboratory Name & Address: **AmeriSci, NY**

Langan Certifications/ Laboratory Accreditations

LANGAN

NEW YORK STATE - DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH
LICENSE AND CERTIFICATE UNIT
STATE CAMPUS BUILDING 12
ALBANY, NY 12240

ASBESTOS HANDLING LICENSE

Langan Engineering And Environmental Services, Inc.
River Drive Center One
619 River Drive
Elmwood Park, NJ 07407

FILE NUMBER: 99-0273
LICENSE NUMBER: 29702
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 06/10/2008
EXPIRATION DATE: 06/30/2009

Duly Authorized Representative – Vijay Patel

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Maureen A. Cox, Director
FOR THE COMMISSIONER OF LABOR

SH 432 (4-07)

United States Environmental Protection Agency

This is to certify that

Langan Engineering & Environmental Services, Inc.

619 River Drive Center 1, Elmwood Park, New Jersey 07407

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402(a)(1), and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226.

In the Jurisdiction of:

New York

This certification is valid from the date of issuance and expires May 30, 2009

NY-2233-1

Certification #

JUN - 5 2006

Issued On

Kenneth S. Stoller

Kenneth S. Stoller, P.E., QEP, DEE, Chief

Pesticides & Toxic Substances Branch

TSC
providing TOTAL SAFETY CONSULTING
5 Court Square
Long Island City, NY 11101
718.389.2103 - Fax: 718.389.6155
www.totalsafety.org



NYC DOB 4-HR Supported Scaffold User Certificate

Name: Vijay Patel
Director: Tom Ferrante **Class Date: 06/19/2007**

Exp. Date: 06/19/2011 **Card No. SS07-2653**

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



VIJAY B PATEL
CLASS(EXPIRES)
C ATEC(05/08) D INSP(05/08)
E MGPL(05/08) H PM (05/08)
I PD (05/08)

CERT# 98-12523

MUST BE CARRIED ON ASBESTOS PROJECTS

NYC DEP Asbestos Control Program
Asbestos Certificate



PATEL,
VIJAY B
INVESTIGATOR
103029
EXPIRES: 5/13/2008

Must be carried on all asbestos projects

NYC DEP Asbestos Control Program
Asbestos Certificate



PATEL,
VIJAY B
INVESTIGATOR
110337
EXPIRES: 5/13/2010
DOB: [redacted] M 5' 06"

Must be carried on all asbestos projects

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



VIJAY B PATEL
CLASS(EXPIRES)
C ATEC(05/09) D INSP(05/09)
E MGPL(05/09) H PM (05/09)
I PD (05/09)

CERT# 98-12523
DMV# [redacted]

MUST BE CARRIED ON ASBESTOS PROJECTS

New York
PROJECT DESIGNER



Certified Lead-Based
Paint Professional

Certification No NY-P-2789-1	
Date of Birth	Expiration Date 09/29/2009
Address	
Badge Holder's Name Vijay B. Patel	
Badge Holder's Signature	

If found, drop in any mailbox
Postmaster: Please return to:
US EPA
1200 Pennsylvania Ave, NW
(MC-74040T)
Washington, DC 20460
or call 1-800-424-LEAD

New York
RISK ASSESSOR



Certified Lead-Based
Paint Professional

Certification No NY-R-2789-1	
Date of Birth	Expiration Date 09/29/2009
Address	
Badge Holder's Name Vijay B. Patel	
Badge Holder's Signature	

If found, drop in any mailbox
Postmaster: Please return to:
US EPA
1200 Pennsylvania Ave, NW
(MC-74040T)
Washington, DC 20460
or call 1-800-424-LEAD

EYES BLK
HAIR BLK

IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 290A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

New York
RISK ASSESSOR



Certified Lead-Based
Paint Professional

New York
INSPECTOR



Certified Lead-Based
Paint Professional

New Jersey Department of
Health & Senior Services
Indoor Environments Program
Lead Certification Permit



SANJAY B PATEL
Permit Number: 017721
ID Number: 006046
Expiration Date: 3/28/2009



Authorization Signature: James A. Buonadies, Director

Inspector/Risk Assessor

NJ Department of Community Affairs
Division of Codes and Standards
Bureau of Code Services



This is to certify that

Sanjay Patel

has been certified as:
Asbestos Safety Technician

Certification #	**01110**
Effective Date	**8/1/2007**
Expiration Date	**7/31/2009**

TSC
providing TOTAL SAFETY CONSULTING
5 Court Square
Long Island City, NY 11101
718.389.2103 - Fax: 718.389.6155
www.totalsafety.org



NYC DOB 4-HR Supported Scaffold User Certificate

Name: Sanjay Patel
Director: Tom Ferrante **Class Date: 06/19/2007**

Exp. Date: 06/19/2011 **Card No. SS07-2672**

NYC DEP Asbestos Control Program
Asbestos Certificate



PATEL,
SANJAYKUMAR B
INVESTIGATOR
108041
EXPIRES: 9/18/2009

Must be carried on all asbestos projects

Certification No NY-I-4643-1	
Date of Birth	Expiration Date 11/20/2009
Address	
Badge Holder's Name	Sanjay B Patel
Badge Holder's Signature	

If found, drop in any mailbox
Postmaster: Please return to:
US EPA
1200 Pennsylvania Ave, NW
(MC-7404OT)
Washington, DC 20460
or call 1-800-424-LEAD

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



SANJAYKUMAR PATEL
CLASS(EXPIRES)
C ATEC(09/08) D INSP(09/08)
H PM (09/08)

CERT# 98-10216

MUST BE CARRIED ON ASBESTOS PROJECTS

THIS CARD IS ISSUEDPURSUANT TO
N.J.S.A. 52:27D-119 ET SEQ OF THE
STATE OF NEW JERSEY

CHIEF
BUREAU OF CODE SERVICES

Certification No NY-R-4643-1	
Date of Birth	Expiration Date 11/20/2009
Address	
Badge Holder's Name	Sanjay B Patel
Badge Holder's Signature	

If found, drop in any mailbox
Postmaster: Please return to:
US EPA
1200 Pennsylvania Ave, NW
(MC-7404OT)
Washington, DC 20460
or call 1-800-424-LEAD

This card in no way certifies or verifies this individuals competency in the safe operation of scaffolds

If found, please contact TSC at (718) 389-2103

EYES BLK
HAIR BLK

IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 290A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

This certificate must be shown to a NYCDEP representative upon request. Report loss immediately to NYCDEP Asbestos Control Program, 8th floor 59-17 Junction Blvd., Flushing, NY 11373

This PERMIT has been issued in accordance with N.J.A.C. 8:62. You MUST have this PERMIT with you on the job. To report a lost or stolen permit, notify us of edits to information on a permit, report change of address, report defects in card, or to find out how to renew a permit, contact the NJDHSS at:
New Jersey Department of Health & Senior Services
Consumer & Environmental Health Services
Indoor Environments Program, Training and Certification
3635 Quakerbridge Road, PO Box 372
Trenton, NJ 08625-0372
Telephone: (609) 631-6749 Fax: (609)588-7618
www.state.nj.us/health/eoh/leadasb/
If this permit is found abandoned, please send to above address.

DA 5/14/2007

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200546-0

AmeriSci New York

New York, NY

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated 18 June 2005).

2008-07-01 through 2009-06-30

Effective dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2006-09-13)

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

AmeriSci New York
DBA: AmeriSci New York
117 E. 30th Street
New York, NY 10016
Mr. Paul Mucha
Phone: 212-679-8600 Fax: 212-679-2711
E-Mail: pmucha@amerisci.com
URL: http://www.amerisci.com

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 200546-0**

NVLAP Code	*Designation / Description*
18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2008-07-01 through 2009-06-30
Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200546-0

AmeriSci New York

New York, NY

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

AIRBORNE ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated 18 June 2005).

2008-07-01 through 2009-06-30

Effective dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2006-09-13)

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

AmeriSci New York
DBA: AmeriSci New York
117 E. 30th Street
New York, NY 10016
Mr. Paul Mucha
Phone: 212-679-8600 Fax: 212-679-2711
E-Mail: pmucha@amerisci.com
URL: http://www.amerisci.com

AIRBORNE ASBESTOS FIBER ANALYSIS (TEM) **NVLAP LAB CODE 200546-0**

NVLAP Code	*Designation / Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

2008-07-01 through 2009-06-30
Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
RICHARD F. DAINES, M.D.

Expires 12:01 AM April 01, 2009
Issued April 01, 2008

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. PAUL MUCHA
AMERICA SCIENCE TEAM NEW YORK INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480
EPA Lab Code: NY01378

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved subcategories and/or analytes are listed below:

Drinking Water Miscellaneous

Asbestos	EPA 100.1
	EPA 100.2

Serial No.: 36239

Property of the New York State Department of Health. Valid only at the address shown. Must be conspicuously posted. Valid certificates have a raised seal. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
RICHARD F. DAINES, M.D.

Expires 12:01 AM April 01, 2009
Issued April 01, 2008

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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MR. PAUL MUCHA
AMERICA SCIENCE TEAM NEW YORK INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480
EPA Lab Code: NY01378

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material	EPA 600/M4/82/020
	Item 198.1 of Manual
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	ITEM 198.4 OF MANUAL

Serial No.: 36240

Property of the New York State Department of Health. Valid only at the address shown. Must be conspicuously posted. Valid certificates have a raised seal. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
RICHARD F. DAINES, M.D.

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MR. PAUL MUCHA
AMERICA SCIENCE TEAM NEW YORK INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480
EPA Lab Code: NY01378

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved subcategories and/or analytes are listed below:

Miscellaneous Air

Asbestos	40 CFR 763 APX A No. III
	YAMATE,AGARWAL GIBB
Fibers	NIOSH 7400 A RULES

Serial No.: 36241

Property of the New York State Department of Health. Valid only at the address shown. Must be conspicuously posted. Valid certificates have a raised seal. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify laboratory's accreditation status.

A P P E N D I X D

Copy of the August 24, 2000 Environmental Investigation Report prepared by ET Environmental Corporation

ETENVIRONMENTAL
CORPORATION

KINGSBRIDGE ARMORY ROOF REHABILITATION PROJECT
ENVIRONMENTAL SURVEY REPORT



Kingsbridge Armory Roof
29 West Kingsbridge Road
Bronx, New York

Date Prepared: September 15, 2000

Prepared for:
New York City Economic Development Corporation
110 William Street
New York, NY 10038

Prepared by:
ET Environmental Corporation
3424 Peachtree Road
Suite 200
Atlanta, GA 30326

Written by:
George Pineda, ET
Piotr Chmielinski, HPE
Fred Burkhardt, ATC

This report is submitted the 15th day of September in the Year 2000 by:

George Pineda, CIH, CHMM

Piotr Chmielinski, M.S., CIH

KINGSBRIDGE ARMORY ROOF REHABILITATION PROJECT

ENCLOSED DOCUMENTATION:

1. Environmental Survey Executive Summary
2. Summary Scope of Work
3. Asbestos Survey Report and Removal Specifications
4. Lead Survey Report and Removal Specifications
5. Survey of Biological Contamination

Attachment(s):

A. Environmental Survey Report Prepared By ATC

EXECUTIVE SUMMARY

Environmental testing was conducted to determine if any hazardous building materials will be impacted by roofing work scheduled at the Kingsbridge Armory. Specifically, the roof area was investigated for the presence of asbestos, lead-based paint and bird droppings. This Environmental Survey reports the following findings which may impact construction activities in the roof area of the Kingsbridge Armory:

- Built-up roofing, two-tab shingle and underlayment and caulking were identified as Category 1 non-friable asbestos-containing materials.
- Pipe insulation on the Drill Floor Mezzanine was identified as friable asbestos-containing material.
- Painted surfaces throughout the building contain regulated levels of lead-based paint.
- Bird droppings are present on the roof trusses

Removal/management of these materials is necessary in order to minimize worker exposures and prevent release of hazardous materials into the environment. Abatement plans, which outline procedures for handling these hazardous materials, are incorporated in the enclosed documentation.

The information enclosed is limited in scope to accessible areas of the roof and other areas that may be impacted by roof renovation. Any new materials encountered during the renovation process should be appropriately tested prior to disturbance.

Summary Scope of Work

Asbestos

A. Remove and dispose of all layers of built-up roofing including underlayment, mastics, flashings and adhesives to the deck from the South and North Shed Roofs.

B. Remove and dispose of all layers of two tab shingle roofing including underlayment, mastics, flashings and adhesives to the deck from the South and North Vault Roofs.

C. Remove and dispose of all layers of EPDM, rigid insulation and built-up roofing including underlayment, mastics, flashings and adhesives to the deck from the low slope administrative building roof, parapet band and one story structures located on the roof.

D. Remove and dispose of all exposed and concealed mastics, flashing material, adhesives and caulking from the East and West gable ends.

E. Remove and dispose of all exposed and concealed mastics, flashing material, adhesives and caulking from the North and South clerestory bands.

F. Remove and dispose of all exposed and concealed caulking from the parapet wall.

G. Remove and dispose of perimeter pipe insulation on the drill floor mezzanine level to facilitate roof abatement.

H. Removal and disposal of accumulated debris on drill floor as asbestos contaminated waste prior to commencement of scaffolding work and throughout roof abatement work.

I. Removal and disposal of accumulated roofing debris surrounding the armory building prior to commencement of abatement work and throughout roof abatement work.

Demolition

A. Remove and dispose of existing roof decking from the South and North shed and vault roofs. If contaminated with roofing material dispose of as asbestos containing waste.

B. Remove metal panels from the East and West gable ends to access mastics, flashing material, adhesives and caulking. If metal panels are contaminated with mastics, flashing materials, adhesives or caulking decontaminate or dispose of as asbestos containing waste.

C. Remove corrugated and metal panels from the North and South clerestory bands to access mastics, flashing material, adhesives and caulking. If corrugated or metal panels are contaminated with mastics, flashing materials, adhesives or caulking decontaminate or dispose of as asbestos containing waste.

Avian Fecal Contamination

A. Remove any significant deposits of bird droppings.

B. Place all waste in 6 mil poly bags.

C. Dispose of waste as normal construction debris.

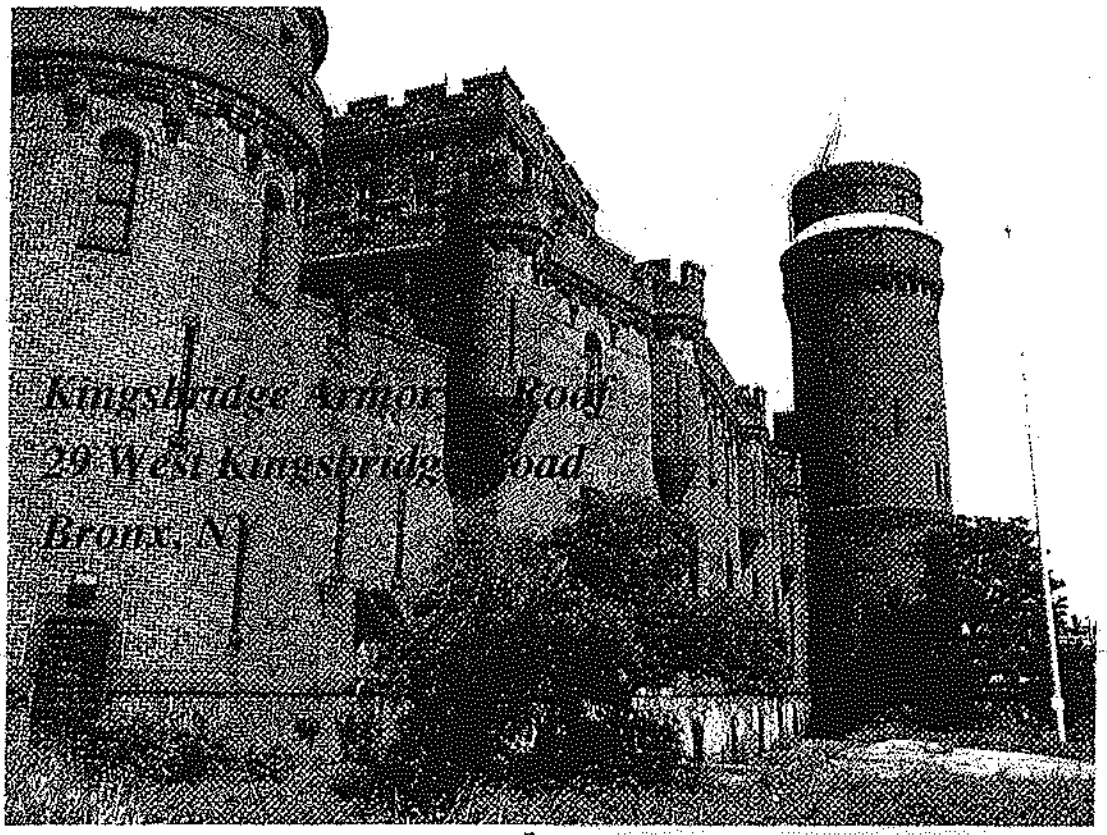
Load Paint Abatement/Surface Preparation

A. Remove all coatings and debris from the top cord of roof trusses and angle brackets exposed by removal of the roof decking.

B. Coatings removal shall meet SSPC Specifications SP-11-87T for Power Tool Cleaning to Bare Metal. It is the intent to remove all coatings and debris from these surfaces to facilitate other trades' work on these surfaces during this project.

ETENVIRONMENTAL
CORPORATION

KINGSBRIDGE ARMORY ROOF REHABILITATION PROJECT
Asbestos Survey Report (Summary) And Removal Specifications



Date Prepared: *September 15, 2000*

Prepared for: *New York City Economic Development Corporation*
110 William Street
New York, NY 10038

Prepared by: *ET Environmental Corporation*
3424 Peachtree Road
Suite 200
Atlanta, GA 30326

Written by: *George Pineda, CIH, CHMM*
Piotr Chmielinski, M.S., CIH

REPORT SUMMARY

Testing was conducted to determine if asbestos is present in the roofing material of a building planned for renovation, located at 29 West Kingsbridge Road in Bronx, New York. The survey and collection of samples was conducted in August, 2000. This report concludes that non-friable asbestos containing materials are present on the roof.

Chrysotile asbestos (Category 1 non-friable) was identified in:

South Shed Roof	Built-up roofing, wood decking* (Black, ~64,800 sf)
North Shed Roof	Built-up roofing, wood decking (Black, ~64,800 sf)
South Vault Roof	Two-tab shingle and underlayment, wood decking (Black, ~41,300 sf)
North Vault Roof	Two-tab shingle and underlayment, wood decking (Black, ~41,300 sf)
Low slope – Administrative Wing	Two-tab shingle and underlayment, wood decking (Black, ~41,300 sf)
East Metal Gable End	Caulking (Black, ~3,500 sf)
West Metal Gable End	Caulking (Black, ~3,500 sf)
South Clerestory Band	Caulking (Black, ~2,500 sf)
North Clerestory Band	Caulking (Black, ~2,500 sf)
Parapet Wall	Caulking (Black, ~1,400 sf)

NOTE: Quantities are an estimation only. If used for abatement purposes, the contractor should confirm these amounts.

** if contaminated by ACM*

This report is submitted the 8th day of September in the Year 2000 by:

George Pineda, CIH, CHMM

Piotr Chmielinski, M.S., CIH

Table of Contents

INTRODUCTION 4

PROJECT DESCRIPTION 4
OBJECTIVE OF SURVEY 4

CURRENT REGULATORY GUIDELINES 5

MISCELLANEOUS PUBLISHED REPORTS 5

SURVEY AND ANALYTICAL METHODS 6

AIR SAMPLE COLLECTION 6
BULK SAMPLE COLLECTION 6
SAMPLE ANALYSIS 6

RESULTS 7

RESULTS SUMMARY 7

CONCLUSIONS AND RECOMMENDATIONS 7

PHOTOGRAPHS 8

APPENDIX A - ASBESTOS REMOVAL SPECIFICATION 17

Introduction

Project Description

The property located at 29 West Kingsbridge Road was surveyed at the request of the New York City Economic Development Corporation. The building is located in Bronx, New York.

The building is a 900,000 square foot building previously used as an armory.

In August, 2000, Mr. James Ruchalski (New York Certificate # AH 91-06714) and Mr. Jay Dupay (New York Certificate # AN 88-05963) of ATC Associates, Inc. (ATC) inspected the above mentioned structure and collected a total of 29 representative samples of different suspect building materials on the roof. Inspection and collection of samples included accessing all roof areas and collecting samples of any roofing materials that were suspected to contain asbestos.

Bulk sampling was conducted utilizing techniques of destructive methods (a complete review of survey limitations is provided under Bulk Sampling Collection).

Objective of Survey

The goal of the survey was to determine if any materials on the roof contain asbestos. This information is required to comply with current State of New York and City of New York asbestos regulations prior to the renovation of this structure.

Current Regulatory Guidelines

OSHA: Meets criteria for OSHA medical records rule. 29 CFR 1910.20 (7/1/88)

OSHA: 8 hr Time Weighted avg.: 0.1 fiber/cc. A fiber is defined as a particulate form of asbestos, tremolite, anthophyllite, or actinolite, 5 µm or longer, with a length-to-diameter ratio of at least 3:1. 29 CFR 1910.1001 (8/10/94)

NIOSH: 8-hr TWA: .1 fiber/cc (fibers greater than 5 µm in length) NIOSH. NIOSH POCKET GUIDE CHEM HAZ 2ND PRT 1987 Appendix D

ACGIH: TLV - Time Weighted Avg. (TWA) 0.2 fiber/cc (fibers longer than 5 µm and with an aspect ratio equal to or greater than 3:1) (1980) ACGIH. TLVs 1989-90., p. 12

EPA: Asbestos has been designated as a hazardous air pollutant under section 112 of the Clean Air Act. 40 CFR 61.01 (7/1/88)

Miscellaneous Published Reports

NTIS: Industrial Health Hazards Due to Atmospheric Factors, April 1982-May 1983.

USEPA/ECAO: Asbestos Health Update (1984) EPA 600/8-84-003A

WHO: Environ Health Criteria: Asbestos and Other Natural Mineral Fibers (1986)

USEPA: Health and Environmental Effects Profile for Asbestos (1979)

Survey and Analytical Methods

Air Sample Collection

No air samples were collected during this inspection.

Bulk Sample Collection

Samples of building material were collected using metal sampling devices. Material collected was contained entirely within catch containers and emissions from sampling were contained by application of wetting agents when appropriate.

Bulk sampling was conducted utilizing standard techniques. Efforts were made not to impair the function or appearance of items sampled. In some instances, samples could not be taken without adversely impacting the intended function of the material

Sample Analysis

Analysis of bulk building material for the presence of asbestos, was conducted using the current NIOSH 7403 method. The technique includes use of polarized light microscopy with confirmation technique using dispersion staining. This method is designed to identify asbestos minerals and determine their estimated concentrations as a percent by weight. Ref: NIOSH. MANUAL ANALYT METH 3RD ED VOLS 1,2 SUPPLS 1984. V1 7403-1.

The United States Environmental Protection Agency (USEPA) defines ACM as a material which contains greater than 1% (w/w) of asbestos. Thus, materials that contain asbestos in concentrations greater than 1% are frequently labeled "positive" while materials containing less than 1% are labeled "negative". Although this convention has gained general acceptance, the designation was arbitrarily determined and may be subject to revision in the future. Precedent for such a revision can be found in the redefinition of "ACM" by the USEPA to include non-friable materials.

In some cases limitations associated with the analytical method must also be considered when determining what is a "positive" result. For instance, when asbestos fibers are contained within a vinyl matrix of a floor tile, the analysis requires that the vinyl be dissolved in organic solvents. In this case it is difficult to assign an accurate percentage to the asbestos content of the floor tile and labeling this floor tile as "negative", when it contains less than 1% asbestos, may be inappropriate and misleading. Likewise, some flooring materials are formulated using very fine asbestos fibers. At some point these very fine fibers become invisible to light microscopy techniques. Experience has demonstrated that reports of trace quantities of asbestos in some flooring materials following examination by light microscopy may be inaccurate. Frequently flooring materials are found to contain significantly more asbestos when analyzed by other techniques such as electron microscopy.

For these reasons, the "positive" designation in this report will be applied to materials when even trace quantities of asbestos are detected. This will remain the case unless additional testing or other information is available to confirm the concentration of asbestos to be less than or equal to 1%.

Results

The laboratory report listing the results for all twenty-nine (29) samples collected from the roof area is included in Attachment A to this survey report. Asbestos was identified in twenty-two (22) of the samples.

Results Summary

The on-site inspection and subsequent review of laboratory results of the 29 bulk samples collected during the survey in August, 2000 found that

- Chrysotile asbestos (Category 1 non-friable) was identified in the built-up roofing located on the North and South Shed Roofs.
- Chrysotile asbestos (Category 1 non-friable) was identified in the two tab shingle and underlayment located on the North Vault Roof.
- Chrysotile asbestos (Category 1 non-friable) was identified in the window mastic (see Photograph 4) located on the East and West Gable Ends, North and South Clerestory Bands and Parapet Wall.

Conclusions and Recommendations

The findings of this survey include Category 1 non-friable roofing material and caulking.

Due to the planned renovation of the building, the State of New York and City of New York require any asbestos-containing materials (i.e. roofing material and pipe insulation) that will be disturbed during renovation to be removed prior to renovation. All asbestos removal work must be performed by a qualified asbestos abatement contractor.

NOTE: While care has been taken to locate and sample all suspect materials associated with the structures, the potential does exist for additional materials to be concealed within the structures (i.e. behind framing, under roofing, etc.). For this reason, during the renovation process, care should be taken to recognize any materials that may become evident and accessible. Additional testing and/or removal of the materials may be required.

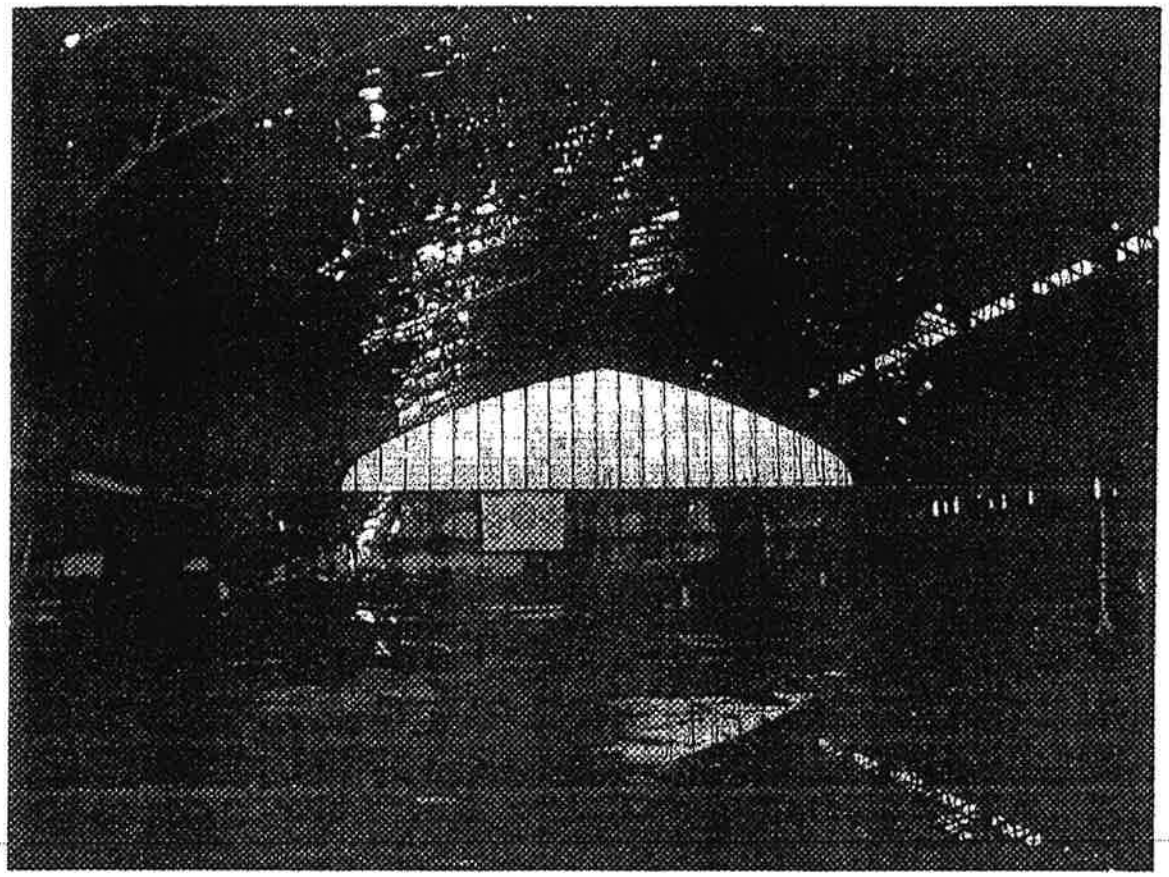
If renovation is not scheduled for the near future in building areas not included in the roof rehabilitation phase, the building owner should implement the following:

1. Control access to the area where the asbestos containing materials are located. This controlled access should include restricting workers and repair activities in the area to those persons who have been notified that some building materials contain asbestos.
2. Use work practices and/or other controls as necessary to inhibit the release or spread of asbestos fibers from the ACM. These work practices should include instructions not to cut, drill, sand or disturb the ACM matrix in any manner that may cause the release of asbestos fibers from the material.



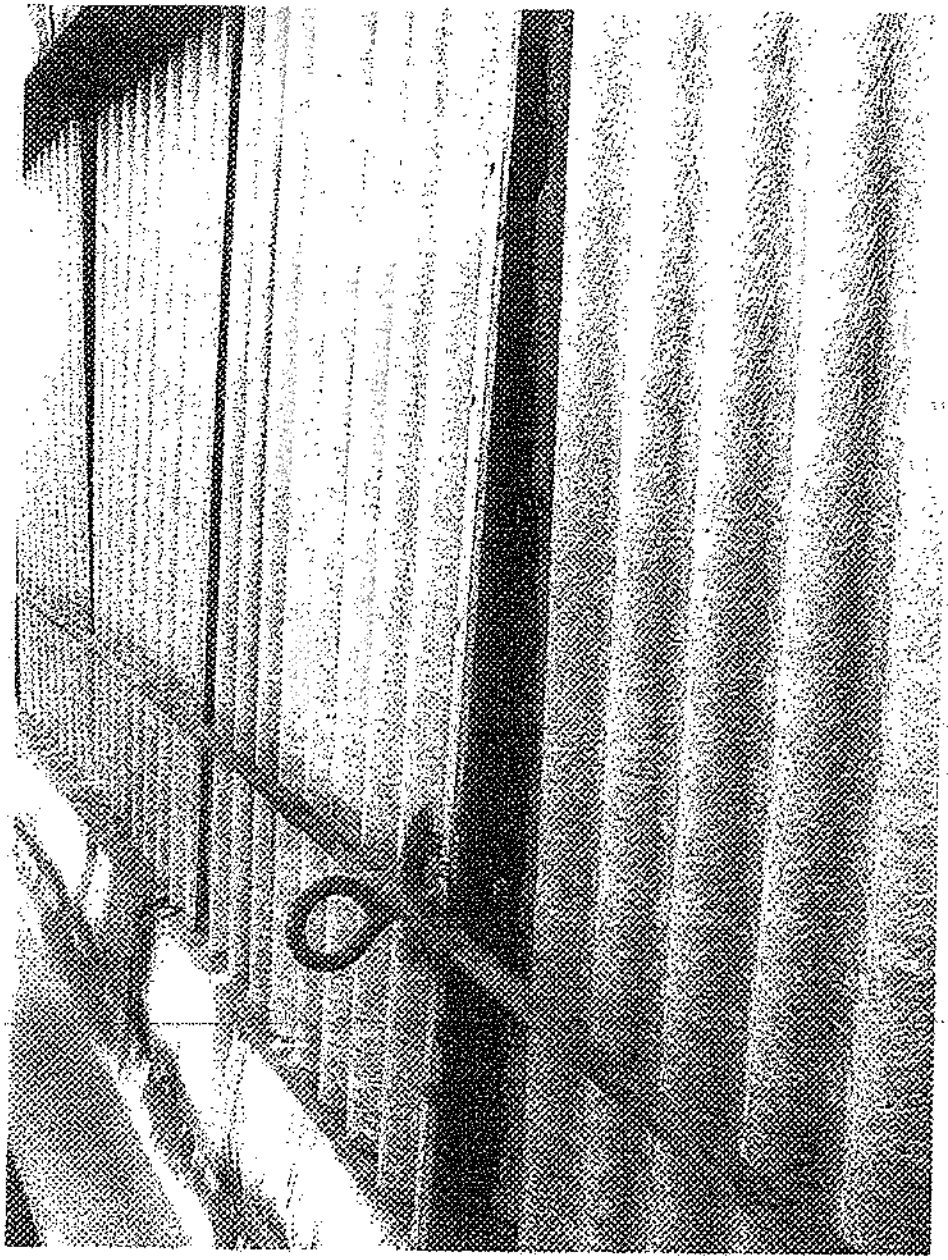
Photograph 1

The Kingsbridge Armory. View of the south side from 29 West Kingsbridge Road.



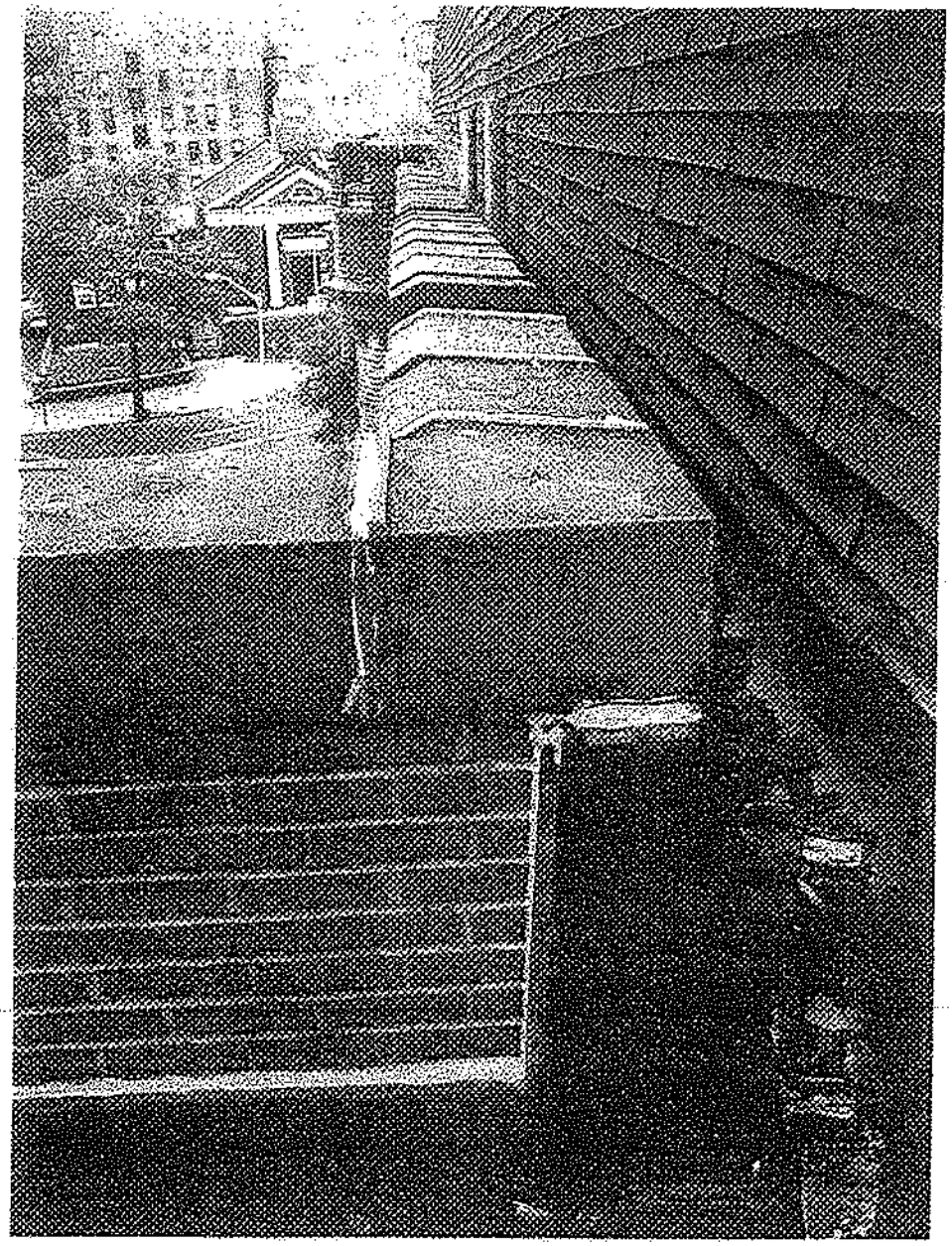
Photograph 2

View of the interior (drill floor) facing south. Removal of ACM pipe insulation and cleaning of ACM debris from the floor will be part of roof work.



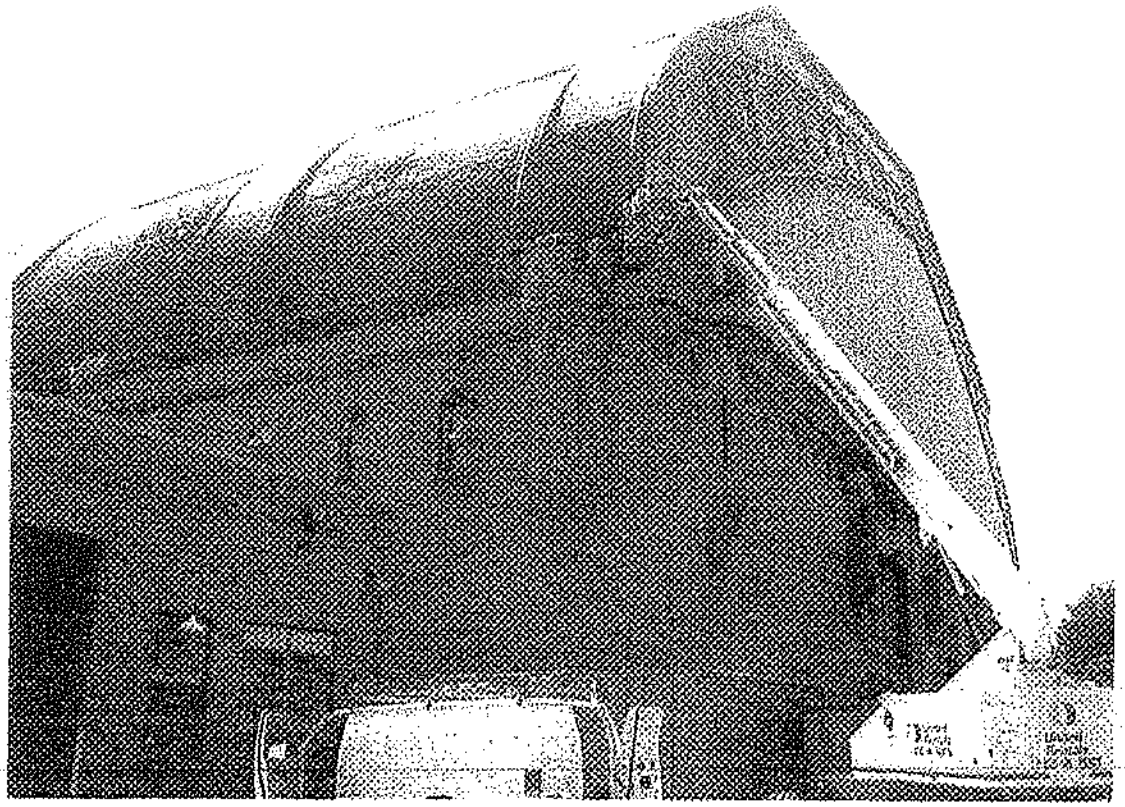
Photograph 4

View of corrugated boards with ACM mastic/coating.



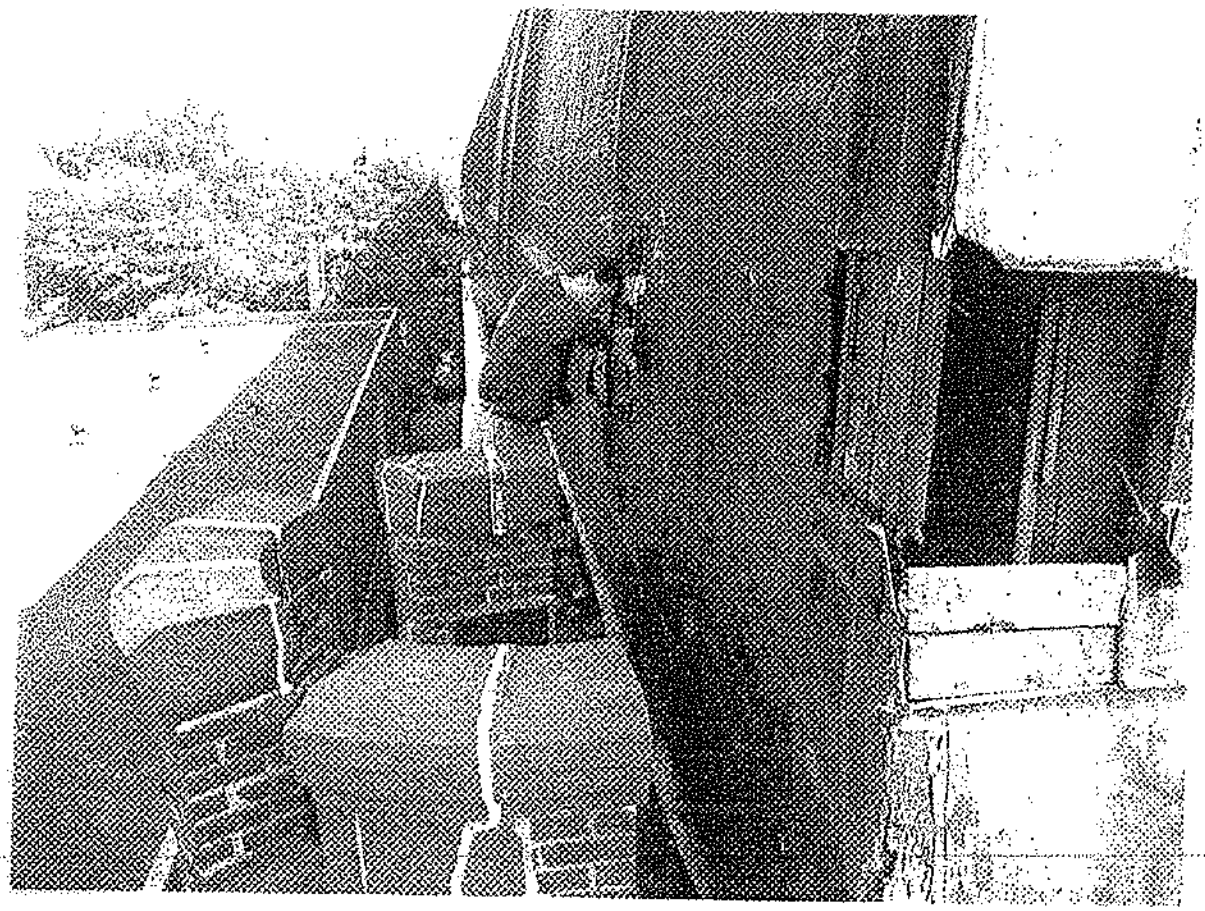
Photograph 5

View of the southwest parapet. With the exception of parapet ACM caulkings (white and black), all ACM roofing materials must be removed during the roofing phase of the project.



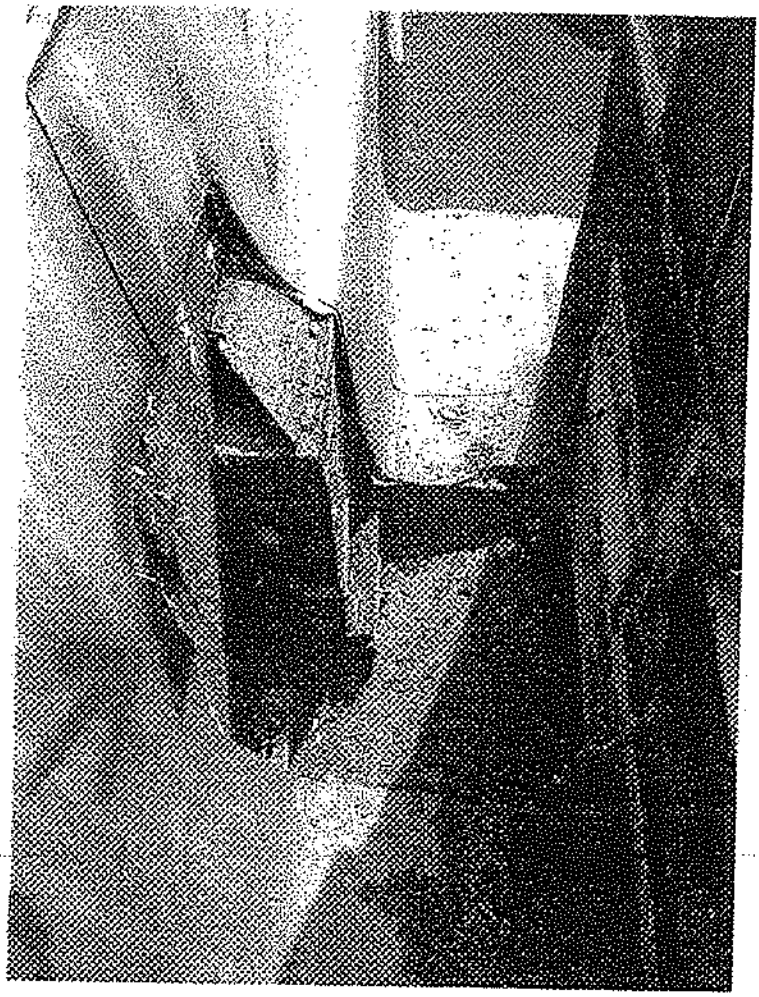
Photograph 6

View of the northwest roof.



Photograph 7

View of the northwest corner of the roof.



Photograph 8

View of the west side parapet.

Appendix A

ASBESTOS REMOVAL SPECIFICATIONS

ASBESTOS REMOVAL SPECIFICATIONS

PART 1 GENERAL

1.01 SCOPE OF WORK

A. This asbestos abatement Project will consist of the removal and disposal of all asbestos containing roofing, contaminated decking, caulking, miscellaneous adhesives and pipe insulation materials from the areas identified below at the Kingsbridge Armory, Bronx, NY.

B. The work shall include but not be limited to the removal of following asbestos-containing materials (ACM):

Location:	ACM	Quantity
South Shed Roof	Built-up roofing, wood decking[1]	64,800 SF
North Shed Roof	Built-up roofing, wood decking	64,800 SF
South Vault Roof	Two-tab Shingle and underlayment, wood decking	41,300 SF
North Vault Roof	Two-tab Shingle and underlayment, wood decking	41,300 SF
Low slope – Administrative Wing	EPDM & Rigid Insulation over built-up roofing	20,000 SF
East Metal Gable End	Caulking[2]	3,500 SF
West Metal Gable End	Caulking[2]	3,500 SF
South Clerestory Band	Caulking[2]	2,500 SF
North Clerestory Band	Caulking[2]	2,500 SF
Parapet Wall	Caulking[2]	1,400 LF
Drill Floor Mezzanine	Pipe Insulation	1,500 LF
Drill Floor	Debris[3]	180,000 sf
Exterior (around building perimeter)	Roofing debris	N/A

[1] If wood decking is contaminated by ACM.

[2] Approximate square footage of surfaces impacted by the caulking.

ETENVIRONMENTAL
CORPORATION

KINGSBRIDGE ARMORY ROOF REHABILITATION PROJECT
ATTACHMENT A
ENVIRONMENTAL SURVEY REPORT PREPARED BY ATC



Kingsbridge Armory Roof
29 West Kingsbridge Road
Bronx, New York

Asbestos Survey

A Joint Venture of Turner Construction Company and EMCON

Asbestos Report

Environmental Survey of:	KINGSBRIDGE ARMORY 29 WEST KINGSBRIDGE ROAD BRONX, NY 10468
Prepared for:	ET ENVIRONMENTAL CORPORATION 3424 Peachtree Road, NE Suite 200 Atlanta, GA 30326
Prepared by:	ATC ASSOCIATES INC. 104 East 25th Street, 10th Fl. New York, New York 10010
ATC Project #:	75018-0001
Report Date:	August 24, 2000

TABLE OF CONTENTS

Page

EXECUTIVE SUMMARY 1
INTRODUCTION 3
STANDARDS OF CARE 3
ASBESTOS - SURVEY 4
ASBESTOS – SURVEY FINDINGS 6
LEAD – SURVEY 9
LEAD – SURVEY FINDINGS 10
LEAD – SURVEY (TARGET RANGES) 11
LEAD SURVEY FINDINDS (TARGET RANGES) 11
FLUORESCENT AND HIGH INTENSITY LIGHTING/BALLASTS 12
DEPH CONTAINING BALLASTS 13
MERCURY CONTAINING LAMPS 14
STORAGE TANKS 14
SURVEY LIMITATIONS 15
CONCLUSIONS AND RECOMMENDATIONS 16

APPENDIX A ..... SAMPLE ANALYSIS RESULTS IN TABULAR FORM
APPENDIX B ..... BULK SAMPLE RESULTS, COC AND LAB ANALYSIS SHEETS
APPENDIX C ..... LABORATORY ACCREDITATIONS
APPENDIX D ..... ASBESTOS CONTAINING MATERIALS BY LOCATION
APPENDIX E ..... XRF SURVEY DATA AND BULK SAMPLE RESULTS
APPENDIX F ..... ENVIRONMENTAL DATABASE
APPENDIX G ..... ELECTRO MAGNETIC SURVEY
APPENDIX H ..... SURVEY DRAWINGS
H.1 ..... FLOOR PLANS (ARCHITECTURAL)
H.2 ..... SAMPLE LOCATIONS (ASBESTOS BULK)
H.3 ..... ASBESTOS LOCATIONS
H.4 ..... ENVIRONMENTAL
H.5 ..... FIELD SKETCHES

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EXECUTIVE SUMMARY

ATC Associates Inc. was contracted by ET Environmental Corp. to conduct a survey of the Kingsbridge Armory 29 West Kingsbridge Road, Bronx, NY. The intent was to identify asbestos containing materials, lead containing and/or lead based paints and coatings, mercury-containing switches or lamps, suspect PCB (polychlorinated biphenyls) or DEHP (Di (2-ethylhexyl) phathatlate) containing light ballasts, storage tanks and stored or abandoned materials at the facility.

The survey identified an estimated fourteen thousand two hundred sixty (14,260) feet of thermal system insulation (piping, cementitious joints), thirty-three thousand six hundred sixty (33,660) square feet of flooring materials (floor tiles, linoleum) and two-hundred thirty-five thousand (235,000) square feet of roofing materials (2-tab shingles, built-up roofing, mastics). Additionally, glazing associated with the windows (interior and exterior) and caulking material associated with windows and exterior joints, seams and cracks was identified as asbestos containing materials. Plaster surfaces primarily walls and ceilings were tested throughout the armory and were determined to **not** be an asbestos containing material.

The survey confirmed lead at detectable levels and above for each substrate as follows; 59% of brick, 45% concrete, 73% metal, 89% plaster and 56% wood. Substrates were distinguished by and identified by the exposed coating color. However, variance of lead results within a single testing combination particularly gray painted concrete substrate indicate that the lead-containing layer(s) occur below the exposed common layer. Therefore, the generally poor condition of painted surfaces combined with the inability to distinguish painted components by the exposed color all paint should be considered lead containing for purposes of OSHA compliance, waste stream management and environmental dust control.

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No mercury containing switches were observed. Ballasts inspected at various locations of the Armory were found to be not labeled as to content or in poor condition, therefore all ballasts were considered PCB or DEHP containing. An estimated six hundred fifty (650) light fixtures, one thousand two hundred fifty (1,250) bulbs/tubes, seven hundred (700) ballasts and one hundred nine (109)metal halide lights were observed. All PCB/DEHP-contaminated materials should be incinerated, mercury containing lighting lamps, such as: Fluorescent, Mercury Vapor, and High Intensity Discharge lamps (including Metal Halide lamps, High Pressure Sodium lamps, and Low Pressure Sodium lamps) should be disposed through a complete recycling process.

The visual inspection of the Armory grounds indicated that at least four underground storage tanks existed at one time as determined by identified vent pipes and fill ports. Regulatory database review identified five underground storage tanks and two aboveground storage tanks associated with the Armory. An electro-magnetic survey of suspect areas indicated that two buried tanks might exist in the garage parking area. Presumably, these could be the closed tanks identified as tank 1 –diesel and tank 2- unleaded gasoline. Additionally, the survey identified seven additional aboveground 275-gallon storage tanks in the basement not identified in the regulatory database. Tanks 1 and 2 appear to have been closed and abandoned in place, which can be verified by test pits. Additional investigation is required to ascertain the disposition of tanks 3 through 7. The seven aboveground storage tanks identified by the survey need to be examined/tested for product type, content and eventual disposition.

Throughout the Armory, various paints, solvents and maintenance products were observed that would require consolidation and disposal. Abandoned refrigeration/air conditioner units may contain CFC compounds and require reclamation prior to disposal. Several animal/bird carcasses and small quantities of avian excreta were observed in localized areas, disturbance of these items would require personal protective equipment.

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INTRODUCTION

ATC Associates Inc. was contracted by ET Environmental Corp. to conduct a survey of the Kingsbridge Armory 29 West Kingsbridge Road, Bronx, NY. The intent was to identify asbestos containing materials, lead containing and/or lead based paints and coatings, mercury containing switches or lamps, suspect PCB (polychlorinated biphenyls) or DEHP (Di (2-ethylhexyl) phathatlate) containing light ballasts, storage tanks and stored or abandoned materials at the Kingsbridge Armory.

Messrs James Ruchalski and Jay Dupay of ATC performed the asbestos survey. Mr. Dupay holds certifications from the New York City Department of Environmental Protection as an Asbestos Investigator and the New York State Department of Labor as an Asbestos Inspector and will be the inspector of record for all filings. Mr. Ruchalski holds certification from the New York State Department of Labor as an Asbestos Inspector. Mr. Richard Edwards and Maraina Medinets performed the XRF survey. The survey was performed from July 24 through August 22, 2000.

STANDARDS OF CARE

ATC Associates Inc.'s work was performed in a professional manner with the best interest of our client in mind. Our objective was to perform our work with care, exercising the customary skills and competence of consulting professionals in the relevant disciplines. The conclusions presented in this report are professional opinions based upon visual observations of the site and laboratory results from samples collected and analyzed.

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The opinions and recommendations presented herein apply to site conditions existing at the time of our observations. ATC Associates Inc. cannot act as insurers, and no expressed or implied representation or warrant is included or intended in our report except that our work was performed, within the limits prescribed by our clients, with the customary thoroughness and competence of our profession at the time and place the services were rendered. This report is designed to generally identify the accessible recognized environmental materials identified in the introduction at the facility.

ASBESTOS – SURVEY

Guidelines used for the survey were established by the Environmental Protection Agency (EPA) in the Guidance for Controlling Asbestos Containing Materials in Buildings, Office of Pesticides and Toxic Substances, Doc 560/5-85-024, and 40 CFR Part 763, Asbestos Hazard Emergency Response Act (AHERA).

Field information was organized in accordance with the AHERA methodology of homogenous area (HA). During the survey, reasonable effort was made to identify all locations and types of ACM materials associated with the scope of work. Multiple samples of homogeneous materials were chosen at random. However, due to inconsistencies of a manufacturer's processes and the contractor's installation methods, materials of similar construction may contain various amounts of asbestos. Further, some materials that were not originally specified to contain asbestos may in fact contain this mineral. For example, cementitious pipe insulation and plaster were frequently mixed with asbestos at the construction site for ease of application. Locating all asbestos materials can only be definitively achieved by conducting exploratory demolition and sampling every section of pipe insulation, fitting or valve covering, fireproofing, and other suspect ACM.

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Bulk samples of suspect ACM were analyzed using polarized light microscopy (PLM) coupled with dispersion staining, as described in 40 CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAP). NESHAP is the standard industry protocol for the determination of asbestos in building materials. A suspect material is immersed in a solution of known refractive index and subjected to illumination by polarized light. The color displays that result is compared to a standardized atlas whereby the specific variety of asbestos is determined. It should also be recognized that PLM is primarily a qualitative identification method whereby asbestos percentage, if any, is estimated. While EPA, New York State; and New York City regulations governing ACM consider materials containing greater than 1-percent as asbestos, accurately quantifying asbestos content below 5-percent has been shown to be unreliable. Without additional and more sophisticated analysis, using transmission electron microscopy (TEM), a 1-percent content or less of asbestos in a building material sample may still result in an exposure or possible respiratory hazard should the material be indiscriminately demolished. Therefore, for identification and appropriate asbestos management, ATC recommends that any detected asbestos in a suspect material using PLM be considered asbestos. For those materials revealing no asbestos using PLM, TEM analysis should be conducted for confirmation.

The New York State Department of Health has revised the PLM Stratified Point Counting Method. The new method, "Polarized Light Microscopy Methods for Identifying and Quantifying Asbestos in Bulk Samples" can be found as item 198.1 in the Environmental Laboratory Approval program (ELAP) Certification manual. The method specifies a procedure of analysis for bulk samples that fall into the category of "Non-friable Organically Bound" (NOB). This category includes any sample in a flexible to rigid asphalt or vinyl matrix (floor tiles, mastic, roofing shingles, roofing felt, etc.). Additional materials that may fall into this category are textured paints and stucco, pipe valve and joint packing, and a variety of other applications. These samples must be "ashed" in a muffle furnace at 480-degrees Celsius (to remove organic matrix), treated with acid (to remove any mineral carbonate), and filtered through a 0.4-micron filter before being analyzed by PLM. The sample must be weighted between each of these steps to track the percent loss of organic matrix.

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ELAP has determined that analysis of NOB materials is not reliably performed by PLM. Therefore, if PLM yields results of 1-percent asbestos or less, the result must be confirmed by TEM. Bulk samples that undergo TEM analysis use the sample reduction methodology stated above for NOB analysis by PLM. ELAP certified laboratories must include the following statement with their PLM analysis results for each "inclusive" (1-percent or less asbestos) NOB sample: "Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-ACM, confirmation must be made by quantitative transmission electron microscopy".

Selected samples initially analyzed by Polarized Light Microscopy which yielded a negative PLM result and which are classified as a "non-friable" material, were then re-analyzed utilizing Transmission Electron Microscopy methodology described above. The laboratory performing both these analysis procedures was ATC Associates Inc., located at 104 East 25th Street, New York, New York. The following laboratory accreditation's are included in Appendix C:

- National Voluntary Laboratory Accreditation Program (Lab Code 1187-00)
- New York State Environmental Laboratory Approval Program (Lab No. 10879)
- American Industrial Hygiene Association Accredited Laboratory (Lab No. 7054)

ASBESTOS – SURVEY FINDINGS

Two hundred twenty-five bulk samples were collected from representative homogeneous areas throughout the facility. Tabular summary of bulk samples is located in Appendix A with field data/chain of custody forms in Appendix B. Asbestos sample locations and schematic material drawings are located in Appendix H. Based upon visual inspection of representative materials likely to be impacted by the planned interior demolition and/or renovation and bulk sample laboratory analytical results, the following materials have been identified as **asbestos containing materials [ACM]** (greater than one percent asbestos).

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- 2-tab roof shingle
- Built-up roofing
- Tar paper underlayment
- Roofing mastics/adhesives
- Pitch pockets
- 9" x 9" floor tiles (all colors)
- Sheet linoleum
- Corrugated (aircell) pipe insulation
- Cementitious pipe joint insulation associated with corrugated (aircell) pipe insulation
- magnesia (pre-formed block) pipe insulation
- Cementitious pipe joint insulation associated with magnesia (pre-formed block) pipe insulation
- Cementitious pipe joint insulation associated with fiberglass pipe insulation (National Guard Office only)
- window glazing (interior and exterior)
- Caulking material associated with windows and exterior joints, seams and cracks

Thermal system insulation was identified primarily in exposed readily accessible locations throughout the facility as described below. However, concealed thermal system insulation was observed in interstitial wall spaces associated with bathroom fixtures and the plenum area above suspended plaster ceilings.

Sub-basement	No ACM observed
Basement	TSI located on perimeter steam, hot and cold water lines. Piping in hallways has been abated and replaced with non-ACM insulation.
Basement Mezzanine	TSI located on perimeter steam, hot and cold water lines. TSI located on steam lines parallel to hallway in ammunition storage rooms. Asbestos containing flooring in office areas on southern wall.

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Drill Floor	Perimeter steam and hot and cold water lines. Asbestos containing flooring in office areas along southern wall. Asbestos containing window caulking and glazing on all windows.
Drill Floor Mezzanine	TSI located on steam, hot and cold water lines associated with bathrooms. Asbestos containing flooring in office areas on southern wall.
Second Floor	Perimeter steam and hot and cold water lines. Asbestos containing flooring in office areas along southern wall. Asbestos containing window caulking and glazing on all windows.
Third Floor	Perimeter steam and hot and cold water lines. Asbestos containing flooring in office areas along southern wall. Asbestos containing window caulking and glazing on all windows.
Roofs	Built-up and two tab shingle roofing including underlayment, mastics, flashings and adhesives. Mastics, flashing material, adhesives and caulking on gable ends, clerestory bands and parapets.

The survey identified the following estimated quantities of asbestos containing thermal system insulation (piping, cementitious joints), flooring materials (floor tiles, linoleum) and roofing materials (3-tab shingles, built-up roofing, mastics) within the survey boundaries.

Level	Thermal System Insulation (Linear Feet)	Flooring Material (Square Feet)	Roofing (Square Feet)
Basement	7,410	300	-
Basement Mezzanine	2,275	1,000	-
Drill Floor	3,540	6,460	-
Second Floor	675	17,500	-
Third Floor	210	8,400	-
Fourth Floor	150	-	-
Roofs	-	-	235,000
Totals	**14,260**	**33,660**	**235,000**

A detailed table of asbestos containing materials by area is located in Appendix D.

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Based upon visual inspection of materials determined to be impacted by the renovation program and bulk sample laboratory analytical results, the following materials are identified as **not asbestos containing materials** (less than one- percent asbestos).

- Boiler insulation'
- Breeching insulation
- Gray floor coating – drill floor
- Cementitious pipe joint insulation associated with fiberglass pipe insulation (Main armory building)
- 12" x 12" ceiling tile
- 2' x 2' ceiling tile
- 2' x 4' ceiling tile
- Joint compound
- Wall plaster – brown coat
- Wall plaster – white coat
- Ceiling plaster – brown coat
- Ceiling plaster – white coat
- Brown paper under 3-tab shingle
- Wallboard

LEAD – SURVEY (PAINTED SURFACES)

The objective of this survey was to identify existing lead-based paint on potentially impacted building surfaces during pending renovation/demolition activities. All painted components were not sampled with the XRF; rather, the survey sampled representative painted building substrates and components and based on the results assumptions as to lead content are made in this report. If questions arise as to the lead content in paint found on a specific surface not tested by ATC, additional testing may be required.

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A portable Lead Paint Analyzer manufactured by Radiation Monitoring Devices (RMD) was used to test all accessible painted components. The instrument was operated in accordance with manufacturer's instructions and XRF performance characteristic sheet (PCS). Representative readings were taken from each surface. Three calibration readings were taken before and after testing in the facility to ensure proper instrument operation. XRF results were divided into three categories: positive, inconclusive, and negative as defined by the PCS. According to the revised PCS for the RMD device, inconclusive ranges exist only for metal substrates. If the result was inconclusive, a paint chip sample was collected for laboratory analysis to determine the actual result.

LEAD –SURVEY FINDINGS (PAINTED SURFACES)

One thousand one hundred ninety building surfaces were tested with a portable X-Ray Fluorescence analyzer for lead content. Substrates tested within the Armory were; brick, concrete, metal, plaster, sheetrock, and wood. Substrates were distinguished by and identified by the exposed coating color. Bulk samples collected form the steel arch's on the drill floor confirmed lead content on the arched of between 8.92 and 56.67 %. A tabular summary of XRF survey data and bulk samples is located in Appendix E

Substrate	Shots	Shots >.4	Shots > 1	Percent of components with XRF detectable levels of lead	Percent of components with a Lead based coating
Brick	119	70	67	59%	56%
Concrete	178	80	62	45%	35%
Metal	403	295	238	73%	59%
Plaster	207	184	180	89%	87%
Sheetrock	34	0	0	0%	0%
Wood	249	140	106	56%	43%
Sub-Total	1190	769	653	65%	55%
Calibration	35				
Total	1225				

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LEAD – SURVEY (TARGET RANGES)

Waste classification of the soils/sand identified within the basement rifle and pistol ranges was performed to determine proper handling and storage requirements as well as the disposal location (i.e., either RCRA Subtitle "C" landfill or Construction and Demolition (C&D) Subtitle "D" landfill). Environmental Protection Agency's (EPA) Resource Conservation and Recovery Act (RCRA) mandates that the lead containing media be characterized as either hazardous or non-hazardous waste prior to disposal. The TCLP composite samples were representative of the various materials that constituted the waste stream. The Inspector donned disposable gloves, which were changed prior to the collection of each sample. The material was placed into a ziplock bag, sealed, and labeled with a unique identifier. A minimum of 100 grams of material was collected. A chain of custody form was completed and submitted with the samples to the laboratory.

LEAD – SURVEY FINDINGS (TARGET RANGES)

ATC collected four (4) representative four-point composite samples from the basement shooting ranges. Sample 1 was collected form Pistol Ranges 9 – 16, Sample 2 was collected form Pistol Ranges 1 – 8, Sample 3 was collected from the most recently active portion of the Rifle Ranges, Sample 4 was collected from the abandoned portion of the Rifle Ranges behind the steel back stop. Analytical results indicate that the anticipated waste stream from each of the sampled areas contain levels of leachable lead in excess of RCRA standards. All four samples contained leachable lead above 5ppm.

Sample	Location	Analytical Result)
1	Pistol Range 9 – 16	1,480 ppm
2	Pistol Range 1 – 8	655 ppm
3	Rifle Range (active)	23.9 ppm
4	Rifle Range (abandoned)	5.84 ppm

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Based on TCLP results indicating leachable levels of lead greater than 5 ppm, the waste streams generated by the removal of the soils, sands and other material are characterized as a hazardous lead containing solid waste as defined by RCRA.

FLUORESCENT AND HIGH-INTENSITY DISCHARGE LIGHTING (HID)/BALLASTS

A visual walk-through of the Armory was conducted including examination of typical fixtures to ascertain the approximate quantity of mercury containing switches, lamps and suspect PCB or DEHP containing light ballasts. A drawing identifying approximate room locations and quantities of fixtures, bulbs and ballasts in located in Appendix H. No mercury containing switches were observed. Ballasts inspected at various locations of the Armory were found to be not labeled as to content or in poor condition, therefore all ballasts were considered PCB or DEHP containing. An estimated quantity of light fixtures, bulbs and ballasts is as follows:

Level	FIXTURES	Bulbs/Tubes	Ballasts	Metal Halide Lights
Basement	185	450	300	9
Basement Mezzanine	190	300	145	-
Drill Floor	175	300	145	100
Second Floor	100	200	110	-
Third Floor	-	-	-	-
Fourth Floor	-	-	-	-
Totals	**650**	**1250**	**700**	**109**

The primary concern regarding the disposal of used fluorescent ballasts is the health risk associated with polychlorinated biphenyl's (PCBs). Human exposure to these possible carcinogens can cause skin, liver, and reproductive disorders. Fluorescent and high-intensity discharge (HID) ballasts contain a small capacitor that may contain high concentrations of PCBs (greater than 90% pure PCBs or 900,000 ppm). These chemical compounds were widely used as insulators in electrical equipment such as capacitors, switches, and voltage regulators through the late 1970s.

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The Toxic Substances Control Act (TSCA) was enacted in 1976, and subsequently banned the production of PCBs in the United States. The specific regulations governing the use and disposal of PCBs are found in Volume 40 Code of Federal Regulations (CFR) Part 761.

The proper method for disposing used ballasts depends on several factors, such as the type and condition of the ballasts and the regulations or recommendations in effect in the state(s) where you remove or discard them. TSCA specifies the disposal method for ballasts that are leaking PCBs. In addition, generators of PCB-containing ballast wastes may be subject to notification and liability provisions under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) (also known as "Superfund").

Identifying criteria

- All ballasts manufactured through 1979 contain PCBs.
- Ballasts manufactured after 1979 that do not contain PCBs are labeled "No PCBs."
- If a ballast is not labeled "No PCBs," assume it contains PCBs.

DEHP-CONTAINING BALLASTS

Di (2-ethylhexyl) phathatlate (DEHP) is a substance that was used to replace PCBs in certain ballast capacitors beginning in 1979. DEHP in its pure form is listed as a hazardous waste under the Resource Conservation and Recovery Act (RCRA). However, once it has been used in a lighting ballast, it is no longer hazardous as defined by RCRA. (See 40 CFR 261.33, Part 261 Appendix VII, Section 268.34, and Section 268.43.) DEHP is regulated under CERCLA– the Superfund law. The "Reportable Quantity" (RQ) of DEHP under CERCLA is 100 pounds. (See 40 CFR, Section 302.4.) This means that if you are disposing of 100 pounds or more of the material in a 24 hour period (approximately 1,600 fluorescent lighting ballasts), you are required to notify the National Response Center at (800) 424-8802. It also means that parties involved with the disposal of DEHP ballasts may be held liable under Superfund if clean up of the DEHP is required.

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Identifying criteria

- DEHP has been found in ballasts designed for the following lighting fixtures: four foot fluorescent fixtures manufactured between 1979 and 1985
- Eight foot fluorescent fixtures manufactured between 1979 and 1991
- High intensity discharge (HID) fixtures manufactured between 1979 and 1991

MERCURY-CONTAINING LAMPS

Fluorescent and high-intensity discharge (HID) lamps contain a small quantity of mercury that can be harmful to the environment and to human health when improperly managed. Mercury is regulated under RCRA, which is administered by the US Environmental Protection Agency. Under current Federal law, mercury-containing lamps such as fluorescent and HID lamps may be hazardous waste. In addition, incandescent and HID lamps may contain small quantities of lead that can also be potentially harmful to human health and the environment.

STORAGE TANKS

The visual inspection of the Armory grounds indicated that at least four underground storage tanks existed; one underground storage tank (UST) in the western parking area as evidenced by an observed fill port and possible vent line, two UST's associated with the maintenance garage as evidenced by two vent lines and one UST associated with the heating plant of the National Guard Office and garage as evidenced by an observed fill port and vent line. A database search located in Appendix F provided by Environmental Data Resources, Inc. identified five underground storage tanks and two aboveground storage tanks associated with the Armory as follows:

Tank	Product	Capacity (gallons)	Status
1	Diesel	3,000	Closed
2	Unleaded Gasoline	2,000	Closed
3	1,2 or 4 Fuel Oil	2,000	Closed
4	1,2 or 4 Fuel Oil	8,000	Closed
5	Unleaded Gasoline	225	Closed
6	Diesel	225	Unknown
7	Other	275	Unknown

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Additionally, eight additional aboveground 275-gallon storage tanks were identified in the basement southeast hallway opposite the shooting ranges, and not identified in the regulatory database.

Sanborn fire insurance maps for the years 1896, 1900, 1914, 1945, 1950, 1981, 1991, 1992, 1993, 1995 and 1996, and aerial photographs for years 1954, 1966, 1975, 1984 and 1994 provided by Environmental Data Resources, Inc. did not provide any indication of tank locations.

An electro-magnetic of suspect areas was performed by NAEVA (Appendix G) indicated that two buried tanks might exist in the garage parking area. Presumably, these could be the closed tanks identified as tank 1 –diesel and tank 2- unleaded gasoline.

SURVEY LIMITATIONS

No lighting, extensive debris, standing water and microbial growth obscure many areas throughout the facility. These limitations impeded access and restricted viewing of some materials. Access to the upper shed roof and the entire north roof was not possible during this survey.

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CONCLUSIONS AND RECOMMENDATIONS

Asbestos

Asbestos containing materials have been located throughout the Kingsbridge Armory. Asbestos containing materials identified by the survey or revealed by subsequent demolition to be asbestos containing should be removed and disposed of prior to initiation of construction activities. The removal of these materials should be conducted by a State of New York licensed asbestos abatement contractor in accordance with all applicable federal, state, and local regulations. Sufficient sample density exists from the plasters to allow ATC to prepare a New York City Department of Environmental Protection Asbestos Control Program form 5 (Not an Asbestos Project) for demolition of plaster surfaces following abatement of the asbestos containing materials.

Lead - (Painted Surfaces)

All painted surfaces and building components should be assumed to contain lead and be handled in accordance with the requirements of the OSHA Lead Exposure in Construction Standard (29 CFR 1926.62) and any other local requirements. Painted components within the Armory are in generally poor condition throughout and should be considered lead containing for purposes of OSHA compliance, waste stream management and environmental dust control.

This survey does not relieve any renovation/demolition contractors from the responsibility of:

- The Occupational Safety and Health Administration's (OSHA) Construction Industry requirements.
- The Resource Conservation and Recovery Act (RCRA) requirements for testing and disposal of lead-contaminated materials.
- Any other applicable federal, state, or local regulations.

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Lead –(Target Ranges)

All sand including wood dead stop material should be handled and disposed of as lead contaminated material.

PCB/DEHP, Mercury

All PCB/DEHP-contaminated materials should be incinerated pursuant to the U.S. Environmental Protection Agency's PCB Rules 40 CFR Part 761 and relevant state rules and regulations. All mercury containing lighting lamps, such as: Fluorescent, Mercury Vapor, and High Intensity Discharge lamps (including Metal Halide lamps, High Pressure Sodium lamps, and Low Pressure Sodium lamps) should be disposed through a complete recycling process.

Storage Tanks

Tanks 1 and 2 appear to have been closed and abandoned in place, which can be verified by test pits. Additional investigation is required to ascertain the disposition of tanks 3 through 7. The seven aboveground storage tanks identified by the survey need to be examined/tested for product type, content and eventual disposition

MISCELANEOUS

The Kingsbridge Armory is identified as a large quanity generator of hazardous/regulated waste. This registration if inactive should be closed out. Throughout the Armory, various paints, solvents and maintenance products were observed that would require consolidation and disposal. Abandoned refrigeration/air conditioner units may contain CFC compounds and require reclamation prior to disposal. Several animal/bird carcasses and small quantities of avian excreta were observed in localized areas, disturbance of these items would require personal protective equipment.

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APPENDIX A:
SAMPLE ANALYSIS RESULTS IN TABULAR FORM

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory	FT1	001	Floor Tile "wood grain"	1	Rm # 1W-6	6% Chrysotile
Armory	FT1	002	Floor Tile "wood grain" 9"x 9"	1	Rm # 1W-6	NA
Armory	FT1	003	Floor Tile "wood grain" 9"x 9"	1	Rm # 1W-6	NA
Armory	MS1	004	Mastic from wood grn ft	1	Rm # 1W-6	INC
Armory	MS1	005	Mastic from wood grn ft	1	Rm # 1W-6	INC
Armory	MS1	006	Mastic from wood grn ft	1	Rm # 1W-6	INC
Armory	FT2	007	Floortile 9"x 9"	1	Rm # 1W-5	18% Chrysotile
Armory	FT2	008	Maroone	1	Rm # 1W-5	NA
Armory	FT2	009	Maroone	1	Rm # 1W-5	NA
Armory	MS2	010	Mastic maroone Floor Tile	1	Rm # 1W-5	INC
Armory	MS2	011	Mastic maroone Floor Tile	1	Rm # 1W-5	INC
Armory	MS2	012	Mastic maroone Floor Tile	1	Rm # 1W-5	INC
Armory	FT3	013	Floor tile brown 9"x 9"	1	Rm # 1E-4	5% Chrysotile
Armory	FT10	014	Floor tile brown 9"x 9"	2	Rm # 2E-3	NA
Armory	FT10	015	Floor tile brown 9"x 9"		Set #1 office	NA
Armory	MS3	016	Mastic Brown - Floor Tile	1	Rm #1E-4	INC
Armory	FT10	017	Floor tile brown 9"x 9"	2	Rm #2E-3	INC
Armory	MS10	018	Mastic brown FT		Set #1 office	INC
Armory	FT4	019	Floor Tile Black 9"x 9"	1	Rm # 1E-1	12% Chrysotile
Armory	FT4	020	Floor Tile Black 9"x 9"	1	Rm # 1E-1	NA
Armory	FT4	021	Floor Tile Black 9"x 9"	1	Rm # 1E-1	NA
Armory	MS4	022	Mastic Black - Floor Tile	1	Rm # 1E-1	INC
Armory	MS4	023	Mastic Black - Floor Tile	1	Rm # 1E-1	INC
Armory	MS4	024	Mastic Black - Floor Tile	1	Rm # 1E-1	INC
Armory	FT5	025	Floor tile - Red 9"x 9"	1	Rm # 1W-4	6% Chrysotile
Armory	FT5	026	Floor tile - Red 9"x 9"	1	Rm # 1W-4	NA
Armory	FT5	027	Floor tile - Red 9"x 9"	1	Rm #1E-2	NA

NAD - No Asbestos Detected
INC - Inconclusive by PLM
NA - Not Analysed

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory	MS5	028	Mastic red	1	Rm # 1W-4	INC
Armory	MS5	029	Mastic red	1	Rm # 1W-4	INC
Armory	MS5	030	Mastic red	1	Rm #1E-2	INC
Armory	FT6	031	Floor tile - blue 9"x 9"	1	Rm # 1W-4	22% Chrysotile
Armory	FT6	032	Floor tile - blue 9"x 9"	1	Rm # 1W-4	NA
Armory	FT6	033	Floor tile - blue 9"x 9"	1	Rm # 1W-4	NA
Armory	MS6	034	Mastic blue - Floor Tile	1	Rm # 1W-4	INC
Armory	MS6	035	Mastic blue - Floor Tile	1	Rm # 1W-4	INC
Armory	MS6	036	Mastic blue - Floor Tile	1	Rm # 1W-4	INC
Shelter		037	Floor tile - white 12" x 12"	BM	Womens Shelter	INC
Shelter		038	Floor tile - white 12" x 12"	BM	Medical Office	INC
Shelter		039	Floor tile - white 12" x 12"	BM	Medical Office	INC
Shelter		040	Mastic white - Floor Tile	BM	Womens shelter medical office	INC
Shelter		041	Mastic white 12" ft	BM	Womens shelter medical office	INC
Shelter		042	Mastic white 12" ft	BM	Womens shelter medical office	INC
Armory	FT7	043	Brown Linoleum	1	Rm #1W-5	2% Chrysotile
Armory	FT11	044	Brown Linoleum	1	Rm #1W-5	NA
Armory	FT7	045	Brown Linoleum	1	Rm #1W-5	NA
Armory	FT8	046	White Linoleum	1	Rm #1W-1	INC
Armory	FT8	047	White Linoleum	1	Rm #1W-1	INC
Armory	FT8	048	White Linoleum	1	Rm #1W-1	INC
Armory	FT9	049	Black Linoleum	1	SWT #2 Upper Office	INC
Armory	FT9	050	Black Linoleum	1	1W - 1	INC
Armory	FT9	051	Black Linoleum	1	SWT #2 Upper Office	INC
Shelter		052	Tan 12" x 12" Floor Tile	BM	Womens Shelter	INC
Shelter		053	Tan 12" x 12" Floor Tile	BM	Hallway	INC
Shelter		054	Tan 12" x 12" Floor Tile	BM	Dorm #	INC

NAD - No Asbestos Detected
INC - Inconclusive by PLM
NA - Not Analysed

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Shelter		055	Mastic 12"x 12' Floor Tile	BM	Dorm #	INC
Shelter		056	Mastic 12"x 12' Floor Tile	BM	Dorm #	INC
Shelter		057	Mastic 12"x 12' Floor Tile	BM	Dorm #	INC
Shelter		058	Void			VOID
Shelter		059	2'x 2' Ceiling Tile	BM	Womens shelter medical office	NAD
Shelter		060	2'x 2' Ceiling Tile	BM	Womens shelter medical office	NAD
Shelter		061	2'x 2' Ceiling Tile	BM	Womens shelter medical office	NAD
Shelter		062	2'x 2' Ceiling Tile	BM	Womens shelter medical office	NAD
Shelter		063	2'x 4' Ceiling Tile	BM	Womens shelter lounge	NAD
Shelter		064	2'x 4' Ceiling Tile	BM	Womens shelter lounge	NAD
Shelter		065	2'x 4' Ceiling Tile	BM	Womens shelter cafeteria	NAD
Shelter		066	2'x 4' Ceiling Tile	BM	Womens shelter cafeteria	NAD
Shelter		067	Cove Base	BM	Womens shelter cafeteria	INC
Shelter		068	Cove Base	BM	Womens shelter cafeteria	INC
Shelter		069	Cove Base	BM	Womens shelter cafeteria	INC
Shelter		070	Cove Base	BM	Womens shelter cafeteria	INC
Armory	CT1	071	2'x 4' Ceiling Tile	1	Room 1E2	NAD
Armory	CT1	072	2'x 4' Ceiling Tile	1	Room 1E2	NAD
Armory	CT1	073	2'x 4' Ceiling Tile	1	Room 1E2	NAD
Armory	CT2	074	1'x 1' Ceiling Tile	1	Room 1W4	NAD
Armory	CT2	075	1'x 1' Ceiling Tile	1	Debris on floor 1W4	NAD
Armory	CT2	076	1'x 1' Ceiling Tile	1	Debris on floor 1W5	NAD
Shelter		077	Elbow Mud	BM	Womens shelter	NAD
Shelter		078	Elbow Mud	BM	Womens shelter	NAD
Shelter		079	Elbow Mud	BM	Womens shelter	NAD
Armory	TSI1	080	Woven Pipe Wrap	2	Room 2E2	NAD
Armory	TSI1	081	Woven Pipe Wrap	2	Room 2E3	NAD

NAD - No Asbestos Detected
INC - Inconclusive by PLM
NA - Not Analysed

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory	TSI1	082	Woven Pipe Wrap	2	Room 2E4	NAD
Armory		083	Woven Pipe Wrap	2	Room 2E5	NAD
Armory	M1	084	Window Glazing	2	Rm. SE-1	INC
Armory	M1	085	Window Glazing	2	Rm. SE-1	INC
Armory	M1	086	Window Glazing	1	Roof Turret	INC
Armory	M2	087	Wallboard	1	RM. SW-5	NAD
Shelter		088	Wallboard	BM	RM. SW-4	NAD
Shelter		089	Wallboard	BM	Shelter	NAD
Armory		090	Wallboard	SWT-1	Shelter	INC
Armory		091	Wallboard	SWT-1	Turret	INC
Armory		092	Wallboard	SWT-1	Turret	INC
Armory		093	Wallboard	SWT-1	Turret	NAD
Armory		094	Wallboard	SWT-1	Turret	NAD
Armory		095	Wallboard	SWT-1	Turret	NAD
Reserve	1	A-01	9" Grey VFT	2	Rm 2-1	2.7% Chrysotile
Reserve	1	A-02	9" Grey VFT	2	Rm 2-2	NA
Reserve	1	A-03	9" Grey VFT	2	Rm 2-3	NA
Reserve	2	A-04	9" Black VFT	2	Rm 2-1	INC
Reserve	2	A-05	9" Black VFT	2	Rm 2-2	INC
Reserve	2	A-06	9" Black VFT	2	Rm 2-3	INC
Reserve	3	A-07	Mastic on homo # 01 & # 07	2	Rm 2-3	INC
Reserve	3	A-08	Mastic on homo # 01 & # 07	2	Rm 2-1	INC
Reserve	3	A-09	Mastic on homo # 01 & # 07	2	Rm 2-15	INC
Reserve	4	A-10	Grey floor coating	2	Corridor	INC
Reserve	4	A-11	Grey floor coating	2	Corridor	INC
Reserve	4	A-12	Grey floor coating	2	Corridor	INC
Reserve	5	A-13	12" spline ceiling tile	2	Rm 2-1	NAD

NAD - No Asbestos Detected
INC - Inconclusive by PLM
NA - Not Analysed

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Reserve	5	A-14	12" spline ceiling tile	2	Entrance lobby	NAD
Reserve	5	A-15	12" spline ceiling tile	2	Rm 2-3	NAD
Reserve	6	A-16	6" Black vinyl cove base	2	Rm 2-1	INC
Reserve	6	A-17	6" Black vinyl cove base	2	Rm 2-3	INC
Reserve	6	A-18	6" Black vinyl cove base	2	Rm 2-8	INC
Reserve	7	A-19	Mastic ass. with homo # 06	2	Rm 2-1	INC
Reserve	7	A-20	Mastic ass. with homo # 06	2	Rm 2-3	INC
Reserve	7	A-21	Mastic ass. with homo # 06	2	Rm 2-8	INC
Reserve	8	A-22	12" white/grey streaks VFT	2	Rm 2-8	INC
Reserve	8	A-23	12" white/grey streaks VFT	2	Rm 2-8	INC
Reserve	8	A-24	12" white/grey streaks VFT	2	Rm 2-8	INC
Reserve	9	A-25	Mastic ass. with homo # 08	2	Rm 2-8	INC
Reserve	9	A-26	Mastic ass. with homo # 08	2	Rm 2-8	INC
Reserve	9	A-27	Mastic ass. with homo # 08	2	Rm 2-8	INC
Reserve	10	A-28	Wall board as ceiling	1	Corridor	NAD
Reserve	10	A-29	Wall board as ceiling	1	Corridor	NAD
Reserve	10	A-30	Wall board as ceiling	2	Corridor	NAD
Reserve	11	A-31	Outside window caulking (tan)	2	Roof	INC
Reserve	11	A-32	Outside window caulking (tan)	2	Roof	INC
Reserve	11	A-33	Outside window caulking (tan)	2	Roof	INC
Reserve	12	A-34	White window glazing	2	Roof	INC
Reserve	12	A-35	White window glazing	2	Roof	INC
Reserve	12	A-36	White window glazing	2	Roof	INC
Reserve	13	A-37	Coping stone caulking	R	Roof	INC
Reserve	13	A-38	Coping stone caulking	R	Roof	INC
Reserve	13	A-39	Coping stone caulking	R	Roof	INC
Reserve	14	A-40	Tar paper on fiberglass pipe insulation	B	Corridor	INC

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NA - Not Analysed

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Reserve	14	A-41	Tar paper on fiberglass pipe insulation	B	Corridor	INC
Reserve	14	A-42	Tar paper on fiberglass pipe insulation	B	East side room	INC
Reserve	15	A-43	Cementations pipe fitting on fiberglass pipe	1	Locker room	50% Chrysotile
Reserve	15	A-44	Cementations pipe fitting on fiberglass pipe	B	Corridor	NA
Reserve	15	A-45	Cementations pipe fitting on fiberglass pipe	B	Northside room	NA
Armory	P01	P-01	1st Coat White Wall Plaster	1	RM 1W4	NAD
Armory	P02	P-02	2nd Coat Brown Wall Plaster	1	RM 1W4	NAD
Armory	P01	P-03	1st Coat White Column Plaster	1	Entrance Lobby Column	NAD
Armory	P02	P-04	2nd Coat Brown Column Plaster	1	Entrance Lobby Column	NAD
Armory	P01	P-05	1st Coat White Wall Plaster	1	East Wall of Entrance Lobby	NAD
Armory	P02	P-06	2nd Coat Brown Wall Plaster	1	East Wall of Entrance Lobby	NAD
Armory	P01	P-07	1st Coat White Wall Plaster	1	Room 1E1	NAD
Armory	P02	P-08	2nd Coat Brown Wall Plaster	1	Room 1E1	NAD
Armory	P01	P-09	1st Coat White Ceiling Plaster	1M	RM 1E3 Mezz	NAD

NAD - No Asbestos Detected
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NA - Not Analysed

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory		P1	Built-up Roofing	R	Existing probe -P1	4% Chrysotile
Armory	P02	P-10	2nd Coat Brown Ceiling Plaster	1M	RM 1E3 Mezz	NAD
Armory	P01	P-11	1st Coat White Ceiling Plaster	1	RM 1E5	NAD
Armory	P02	P-12	2nd Coat Brown Ceiling Plaster	1	RM 1E5	NAD
Armory	P01	P-13	1st Coat White Suspend Ceiling Plaster	1	Lobby Area of West Side Stair Case	NAD
Armory	P02	P-14	2nd Brown Coat Under # P-13	1	Lobby Area of West Side Stair Case	NAD
Armory	P01	P-15	1st Coat White Ceiling Plaster	1	RM 1W6	NAD
Armory	P02	P-16	2nd Coat Brown Ceiling Plaster	1	RM 1W6	NAD
Armory	P01	P-17	1st Coat White Wall Plaster	1	Entrance Area West Turret Room	NAD
Armory	P02	P-18	2nd Coat Brown Wall Plaster	1	Entrance Area West Turret Room	NAD
Armory	P03	P-19	1st Coat White Ceiling Plaster	2	West Side Stair Way Vestibule	NAD
Armory	R	P2	Built-up Roofing	R	Existing probe -P2	5% Chrysotile
Armory	P04	P-20	2nd Coat Brown Ceiling Plaster	2	West Side Stair Way Vestibule	NAD
Armory	P03	P-21	1st Coat White Ceiling Plaster	2		NAD
Armory	P04	P-22	2nd Coat Brown Ceiling Plaster	2		NAD
Armory	P03	P-23	1st Coat White Wall Plaster	2		NAD
Armory	P04	P-24	2nd Coat Brown Wall Plaster	2		NAD
Armory	P03	P-25	1st Coat White Column Plaster	2	Center Hallway Between Turrets	NAD
Armory	P04	P-26	2nd Coat Brown Column Plaster	2	Center Hallway Between Turrets	NAD
Armory	P03	P-27	1st Coat White Ceiling Plaster	3	Corridor Outside 3rd Floor Bar	NAD
Armory	P04	P-28	2nd Coat Brown Ceiling Plaster	3	Corridor Outside 3rd Floor Bar	NAD
Armory	P03	P-29	1st Coat White Wall Plaster	3	Wall North of Bar Room	NAD
Armory	P04	P-30	2nd Coat Brown Wall Plaster	3	Wall North of Bar Room	NAD
Armory	P03	P-31	1st Coat White Ceiling Plaster	2	East Side Room	NAD
Armory	P04	P-32	2nd Coat Brown Ceiling Plaster	2	East Side Room	NAD
Armory	P03	P-33	1st Coat White Wall Plaster	2	Corridor East End	NAD
Armory		P3-3TAB	3 Tab Shingle	R	Existing probe -P3	2% Chrysotile

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NA - Not Analysed

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory	P04	P-34	2nd Coat Brown Wall Plaster	2	Corridor East End	NAD
Armory	P03	P-35	1st Coat White Wall Plaster	3		NAD
Armory	P04	P-36	2nd Coat Brown Wall Plaster	3		NAD
Armory	P05	P-37	1st Coat White Wall Plaster	BM	RM-B-16	NAD
Armory	P06	P-38	2nd Coat Brown Wall Plaster	BM	RM-B-16	NAD
Armory	P05	P-39	1st Coat White Ceiling Plaster	BM	RM-B-16	NAD
Armory		P3-FELT	Tar Paper Underlayment	R	Existing probe -P3	2% Chrysotile
Armory		P3-PAP	Paper Underlayment	R	Existing probe -P3	NAD
Armory	P06	P-40	2nd Coat Brown Ceiling Plaster	BM	RM-B-16	NAD
Armory	P05	P-41	1st Coat White Ceiling Plaster	BM	Center S. Room Between Turrets	NAD
Armory	P06	P-42	2nd Coat Brown Ceiling Plaster	BM	Center S. Room Between Turrets	NAD
Armory	P05	P-43	1st Coat White Column Plaster	BM	Center Vestibule By Stairs Going Down	NAD
Armory	P06	P-44	2nd Coat Brown Column Plaster	BM	Center Vestibule By Stairs Going Down	NAD
Armory	P05	P-45	1st Coat White Wall Plaster	BM	N Side Wall of Shelter	NAD
Armory	P06	P-46	2nd Coat Brown Wall Plaster	BM	N Side Wall of Shelter	NAD
Armory	P05	P-47	1st Coat White Wall Plaster	BM	East Side Room of Shelter	NAD
Armory	P06	P-48	2nd Coat Brown Wall Plaster	BM	East Side Room of Shelter	NAD
Armory	P05	P-49	1st Coat White Ceiling Plaster	BM	South Side Room of Shelter	NAD

NAD - No Asbestos Detected
INC - Inconclusive by PLM
NA - Not Analysed

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory		P4-EXT	Built-up Roofing	R	Existing probe -P4	NAD
Armory		P4-FELT	Built-up Roofing	R	Existing probe -P4	NAD
Armory		P4-PAP	3 Tab Shingle	R	Existing probe -P5	2% Chrysotile
Armory	P06	P-50	2nd Coat Brown Ceiling Plaster	BM	South Side Room of Shelter	NAD
Armory	P05	P-51	1st Coat White Ceiling Plaster	BM	RM B-39	NAD
Armory	P06	P-52	2nd Coat Brown Ceiling Plaster	BM	RM B-39	NAD
Armory	P05	P-53	1st Coat White Wall Plaster	BM	RM B-39	NAD
Armory		P5-3TAB	Built-up Roofing	R	Existing probe -P5	Trace Chry
Armory	P06	P-54	2nd Coat Brown Wall Plaster	BM	RM B-39	NAD

NAD - No Asbestos Detected
INC - Inconclusive by PLM
NA - Not Analysed

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory		P5-FELT	Tar Paper Underlayment	R	Existing probe -P5	0.75% Chrysotile
Armory	R-1	R-001	Roofing	R	Flat Roof	3% Chrysotile
Armory	R-1	R-002	Roofing	R	Flat Roof - Elevated Section	NA
Armory	R-1	R-003	Roofing	R	Tower Roof	NA
Armory	R-2	R-004	Cap Stone Caulk	R	Roof	INC
Armory	R-2	R-005	Cap Stone Caulk	R	Roof	INC

NAD - No Asbestos Detected
INC - Inconclusive by PLM
NA - Not Analysed

Building	HA #	Bulk Sample	Material	Floor	Sample Coordinates	(Type & %)
Armory	R-2	R-006	Cap Stone Caulk	R	Roof	INC
Armory	1	R-1	Built-up Roofing (upper)	R	Main Roof	4% Chrysotile
Armory	2	R-2	3-Tab Shingle (lower)	R	Main Roof	3.6% Chrysotile
Armory	3	R-3	Tar Paper Underlayment (lower)	R	Main Roof	NAD
Armory	4	R-4	Paper Underlayment (lower)	R	Main Roof	NAD
Armory	SB-1	SB001	Boiler Mud	SB	Boiler Room	NAD
Armory	SB-1	SB002	Boiler Mud	SB	Boiler Room	NAD
Armory	SB-1	SB003	Boiler Mud	SB	Boiler Room	NAD
Armory	SB-2	SB004	Breeching Insulation	SB	Boiler Room	NAD
Armory	SB-2	SB005	Breeching Insulation	SB	Boiler Room	NAD
Armory	SB-2	SB006	Breeching Insulation	SB	Boiler Room	NAD
Armory	SB-3	SB007	Elbow Mud	SB	Boiler Room	NAD
Armory	SB-3	SB008	Elbow Mud	SB	Boiler Room	NAD
Armory	SB-3	SB009	Elbow Mud	SB	Boiler Room	NAD

NAD - No Asbestos Detected
INC - Inconclusive by PLM
NA - Not Analysed

APPENDIX D:
ASBESTOS CONTAINING MATERIALS BY LOCATION

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	1	1E-1	-	1,050	-	-	-	
Armory	1	1E-2	20	1,050	-	-	-	
Armory	1	1E-3	20	150	4	2	1	
Armory	1	1E-4	20	1,120	6	6	3	
Armory	1	1E-5	50	120	-	-	-	
Armory	1	1E-6	50	120	5	4	2	
Armory	1	1E-7	-	-	18	18	9	
Armory	1	1E-8	-	-	10	10	5	
Armory	1	1W-1	20	200	32	6	3	
Armory	1	1W-2	60	500	6	24	12	
Armory	1	1W-3	20	500	6	24	12	
Armory	1	1W-4	20	1,050	7	38	16	
Armory	1	1W-5	-	200	4	16	8	
Armory	1	1W-6	30	400	6	24	12	
Armory	1	1W-7	-	-	-	-	-	
Armory	1	1W-8	-	-	-	-	-	
Armory	1	1W-9	230	-	24	24	24	
Armory	1	Drill Floor	3,000	-	25	50	25	100
Armory	1	SWT-1	-	-	-	-	-	
Armory	1	SWT-2	-	-	-	-	-	
Armory	1	SET-1	-	-	-	-	-	
Armory	1	SET-2	-	-	-	-	-	
Armory	2	2SE-1A	40	1,200	6	12	6	
Armory	2	2SE-1B	165	1,200	6	8	6	
Armory	2	2SE-2	30	1,200	6	12	6	
Armory	2	2SE-3	50	1,200	6	12	6	

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	2	2SE-4	30	1,200	6	12	6	
Armory	2	2SE-5	30	1,200	6	12	6	
Armory	2	2SE-6	100	1,200	7	18	9	
Armory	2	2SE-7	50	1,500	9	18	9	
Armory	2	2SW-1	-	-	5	10	5	
Armory	2	2SW-2	-	-	-	-	-	
Armory	2	2SW-3	-	-	-	-	-	
Armory	2	2SW-4	-	-	-	-	-	
Armory	2	2SW-4-Bathroom	90	3,600	-	-	-	
Armory	2	2SW-5	90	2,000	-	-	-	
Armory	2	2SW-6	-	2,000	10	20	10	
Armory	2	2SW-7	-	-	6	12	6	
Armory	2	2SWT-1	-	-	4	8	4	
Armory	2	2SWT-2	-	-	-	-	-	
Armory	2	2SET-1	-	-	4	8	4	
Armory	2	2SET-2	-					
Armory	2	Hallway	-	-	19	38	19	
Armory	3	Lounge	-	2,700	-	-	-	
Armory	3	3SET-1	50	2,100	-	-	-	
Armory	3	3SET-2	100	2,100	-	-	-	
Armory	3	3SWT1	60	1,500	-	-	-	
Armory	3	3SWT-2	-	-	-	-	-	
Armory	4	4SET-1	-	150	-	-	-	
Armory	4	4SET-2	-	-	-	-	-	
Armory	4	4SWT-1	-	-	-	-	-	
Armory	4	4SWT-2	-	-	-	-	-	

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	B	BE-17	160	-	4	10	5	
Armory	B	C12			6	6	3	
Armory	B	C13			21	24	12	
Armory	B	C15	20	-	-	-	-	
Armory	B	C16	10	-	2	8	4	
Armory	B	C17	20	-	1	4	2	
Armory	B	C18	15	-	1	4	2	
Armory	B	C19	15	-	1	2	1	
Armory	B	C20	20	-	-	-	-	
Armory	B	C21	20	-	-	-	-	
Armory	B	C22	10	-	-	-	-	
Armory	B	C23	40	-	-	-	-	
Armory	B	C24	25	-	-	-	-	
Armory	B	C33A	55	-	7	21	11	
Armory	B	C33B	55	-	-	-	-	
Armory	B	C33C	55	-	-	-	-	
Armory	B	C33D	55	-	-	-	-	
Armory	B	C33E	-	-	-	-	-	
Armory	B	C33F	-	-	15	30	15	
Armory	B	C33G	55	-	-	-	-	
Armory	B	C34	20	-	-	-	-	
Armory	B	C35	30	-	-	-	-	
Armory	B	C36	20	-	1	4	2	
Armory	B	C37	40	-	-	-	-	
Armory	B	C41	15	-	-	-	-	
Armory	B	C42	20	-	-	-	-	

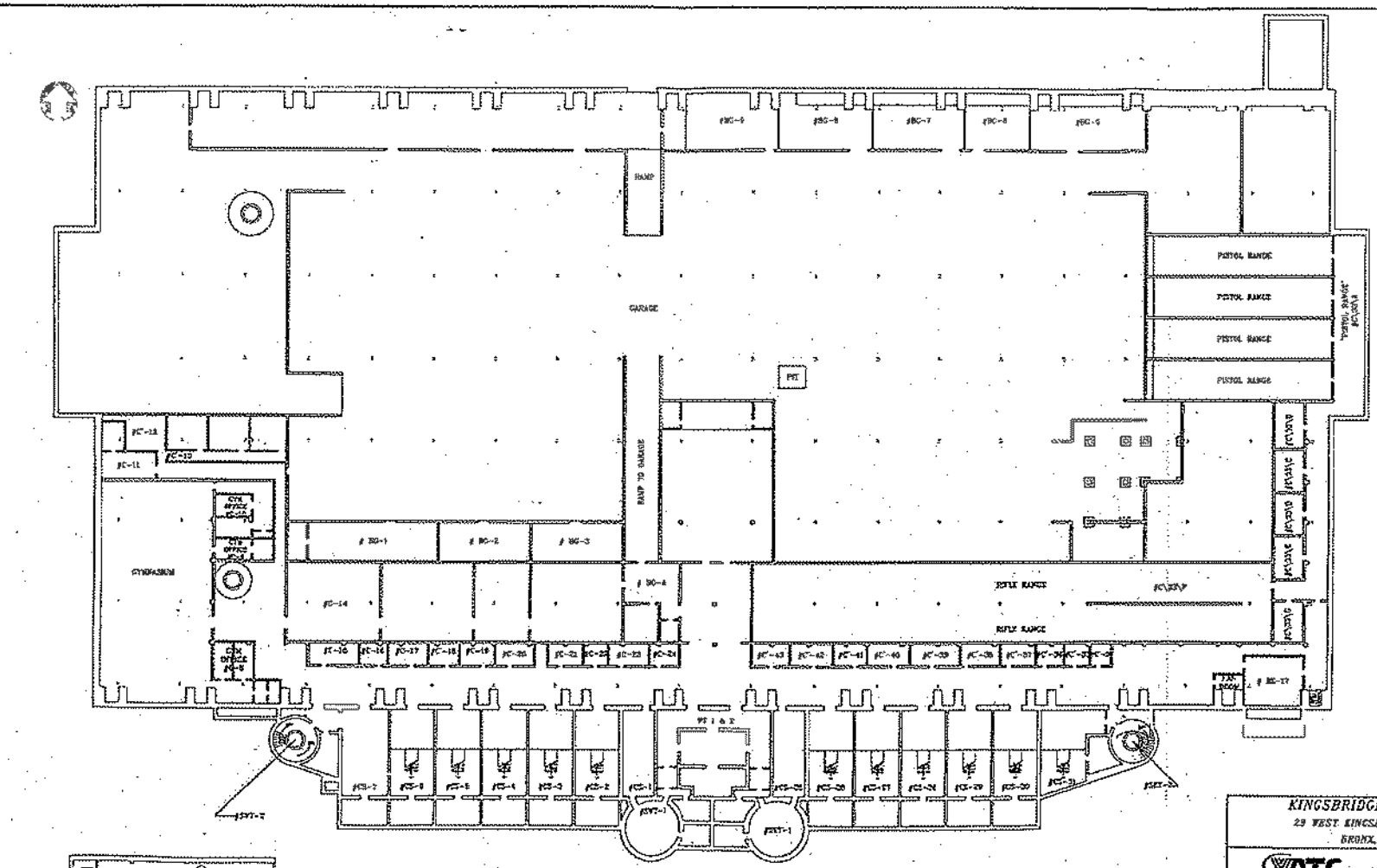
Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	B	C43	40	-	-	-	-	
Armory	B	C14	230	300	14	28	14	
Armory	B	CS1	120	-	14	12	6	
Armory	B	CS12	80	-	6	6	3	
Armory	B	CS2	165	-	12	36	24	
Armory	B	CS26	220	-	14	32	16	
Armory	B	CS27	220	-	12	32	16	
Armory	B	CS28	220	-	14	32	16	
Armory	B	CS29	140	-	14	32	16	
Armory	B	CS3	165	-	12	36	24	
Armory	B	CS30	200	-	14	32	16	
Armory	B	CS31	200	-	14	32	16	
Armory	B	CS4	165	-	15	48	28	
Armory	B	CS5	165	-	12	36	24	
Armory	B	CS6	110	-	12	36	24	
Armory	B	CS7	240	-	5	6	8	
Armory	B	CSS25	105	-	14	12	6	
Armory	B	E1	90	-				
Armory	B	Fan Room	10	-				
Armory	B	Garage	1,550	-	12	24	12	
Armory	B	Gymnasium	1,020	-				
Armory	B	Gymnasium Hallway (EW)	200	-	14	28	15	
Armory	B	Gymnasium Hallway (NS)	300	-	3	6	3	
Armory	B	C9	50	-				
Armory	B	C8	30	-				
Armory	B	C10	100	-				

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	B	SET2	25	-				
Armory	B	SET2	-	-				
Armory	B	Slop Sink Room	30	-				
Armory	B	SWTC1	40	-				
Armory	B	WT1	290	-	18	18	18	
Armory	B	WT2	290	-				
Armory	B	WTC3	50	-				
Armory	BM	A1	-	400				
Armory	BM	B1	50	-	1	4	2	
Armory	BM	B10	250	600				
Armory	BM	B13	15	-				
Armory	BM	B14	140	-				
Armory	BM	B15	40	-				
Armory	BM	B2	50	-				
Armory	BM	B23	50	-	2	4	2	
Armory	BM	B24	25	-				
Armory	BM	B25	55	-				
Armory	BM	B26	25	-				
Armory	BM	B27	30	-	1	3	2	
Armory	BM	B28	20	-				
Armory	BM	B29	50	-	2	8	4	
Armory	BM	B3	50	-	2	4	2	
Armory	BM	B30	50	-				
Armory	BM	B31	50	-				
Armory	BM	B32	50	-	1	4	2	
Armory	BM	B33	50	-	2	4	2	

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Armory	BM	B34	50	-				
Armory	BM	B35	50	-	2	8	4	
Armory	BM	B37	50	-				
Armory	BM	B38	-	-	4	1	2	
Armory	BM	B4	50	-	1	2	1	
Armory	BM	B5	50	-	1	2	1	
Armory	BM	B51	-	-				
Armory	BM	B52	-	-				
Armory	BM	B53	-	-				
Armory	BM	B54	-	-				
Armory	BM	B6	60	-	1	4	2	
Armory	BM	B7	70	-				
Armory	BM	B8	50	-	3	12	6	
Armory	BM	B9	50	-				
Armory	BM	B39			9	36	18	
Armory	BM	B40						
Armory	BM	Balcony	-	-				
Armory	BM	Hallway	20	-	34	68	34	
Armory	BM	Lecture Hall	60	-				
Armory	BM	Loading Area	400	-				9.00
Armory	BM	Open Store Areas	-	-				
Armory	R	Roofing						
Armory	SB	Boiler Room	-	-				
Shelter	B	C33E	55	-				
Shelter	B	C33F	55	-				
Shelter	B	C38	40	-				

Building	Floor	Room/Location	Thermal System Insulation	Floor Tile/Flooring Material	Fixtures	Florescent Tubes	Ballasts	Metal Halides
Shelter	B	C39	80	-				
Shelter	B	C40	35	-				
		Flooring Total		**9,850**				
		Thermal System Total	**14,315**		**623**	**1,247**	**680**	**109**
		Roofing Total	**235,000**					

APPENDIX H:
SURVEY DRAWINGS



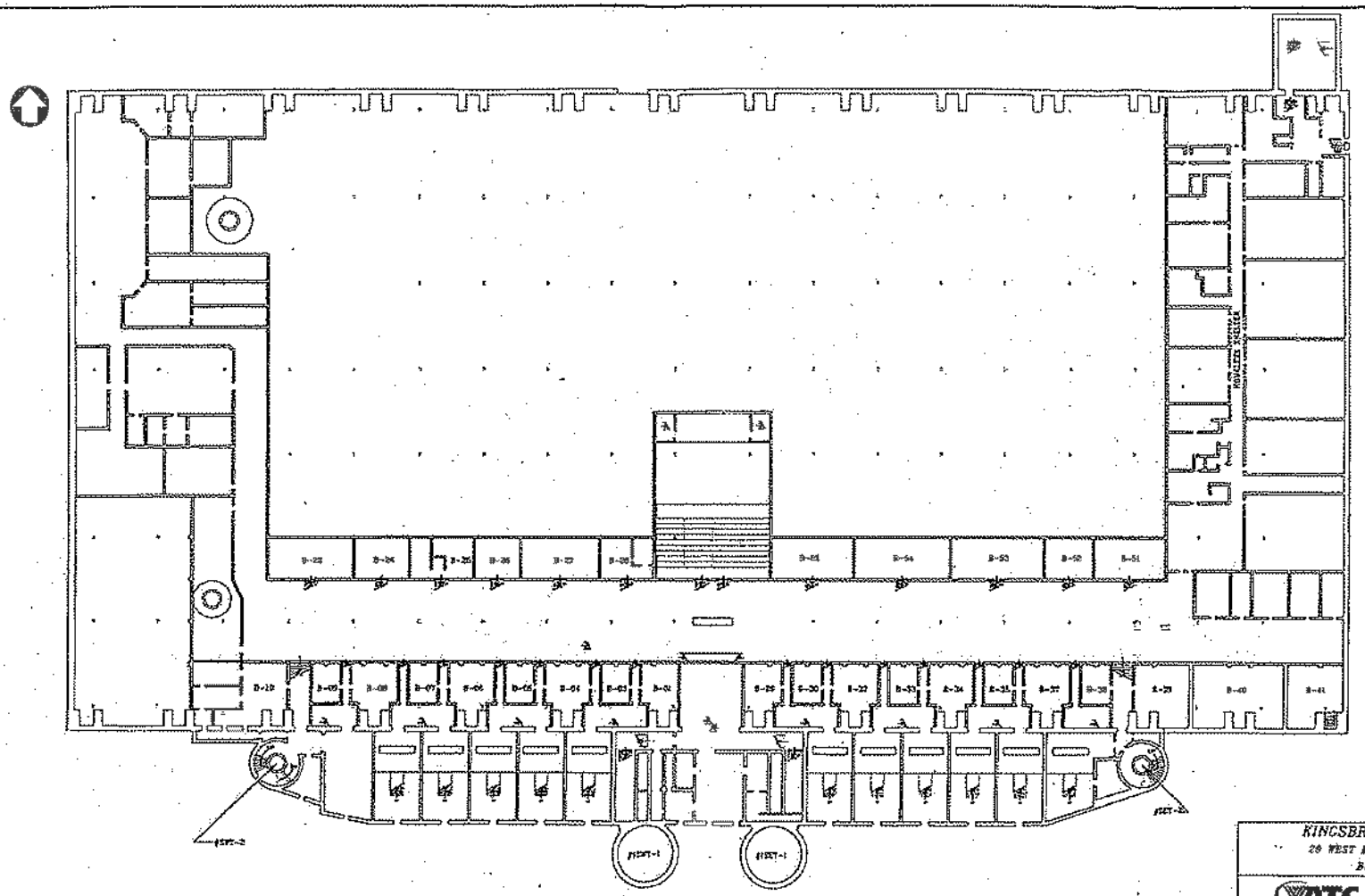
KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

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ROOM NUMBERS
BASEMENT AND SUB BASEMENT
"BOILER ROOM"

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DRAWN BY: K. FROLOV	SCALE: NOT TO SCALE
CHECKED BY: J. RUCHALSKI	DATE: 09/21/00 A-1

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BASEMENT MEZZANINE PLAN

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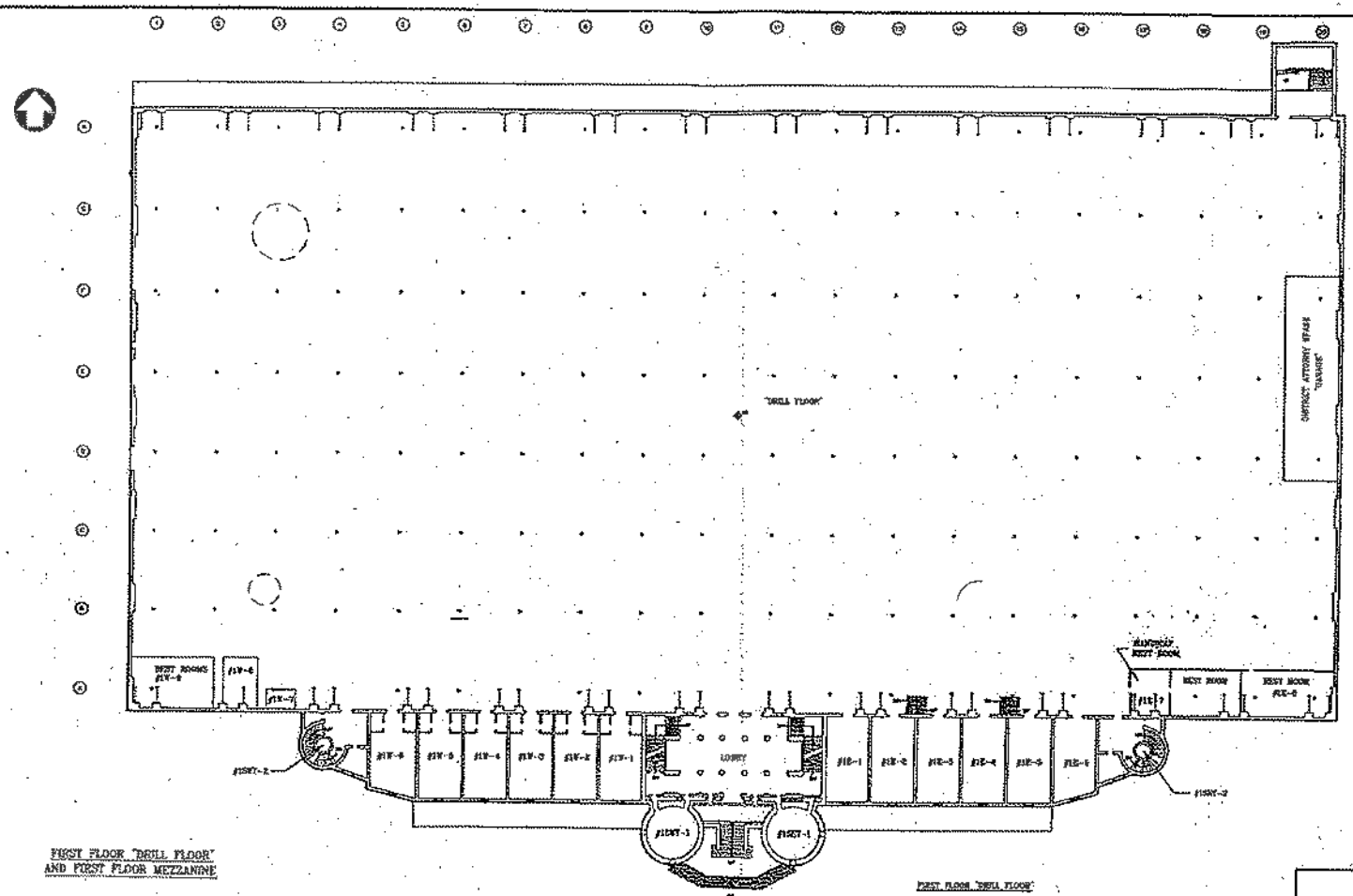
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DRAWN BY: Y. MOLCHANENKO	SCALE: NOT TO SCALE
CHECKED BY: J. RUCHALSKI	DATE: 06/21/08 A-2

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FIRST FLOOR "DRILL FLOOR" AND FIRST FLOOR MEZZANINE

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29 WEST KINGSBRIDGE ROAD,
BRONX, NY

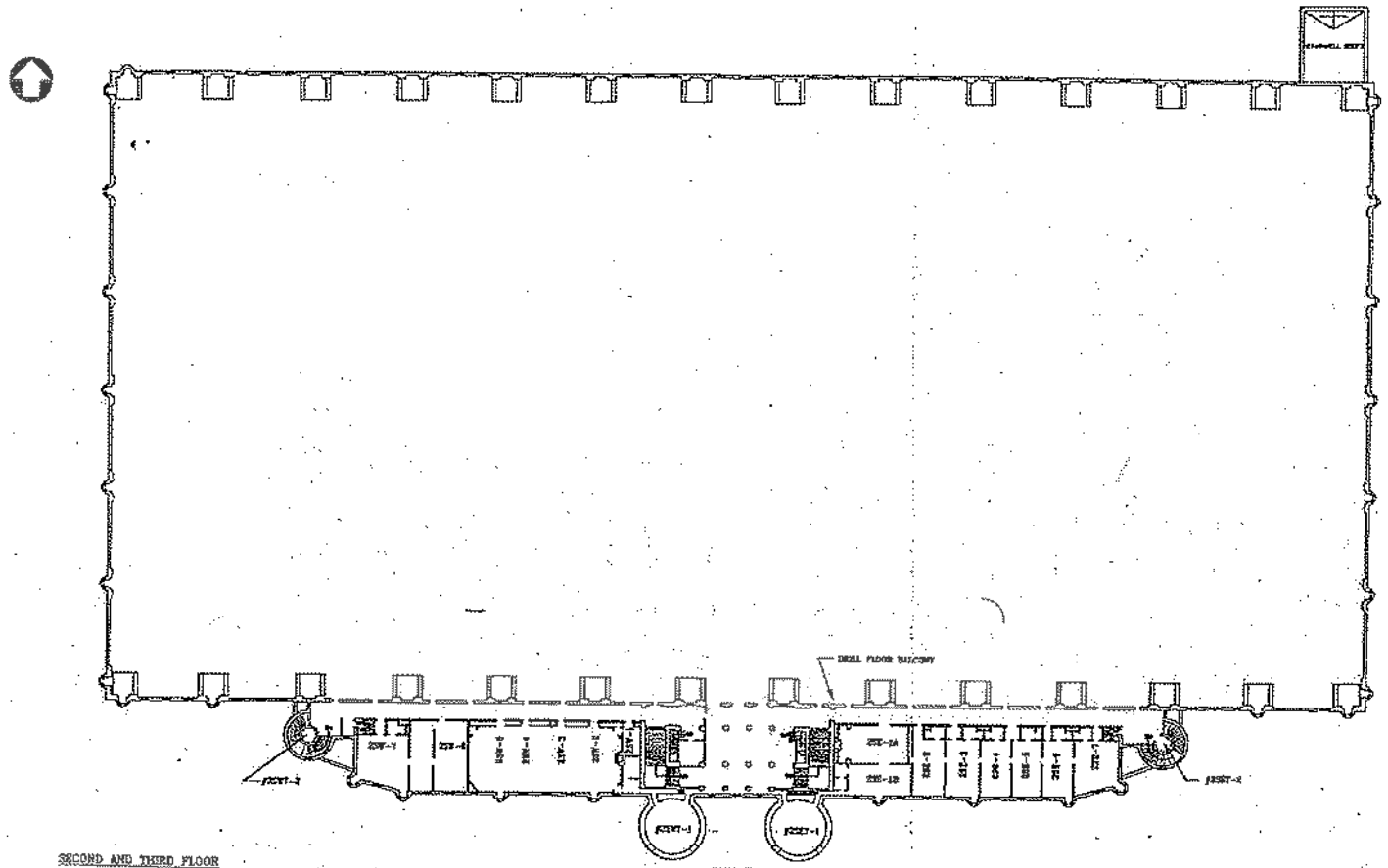
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ROOM NUMBER

FIRST FLOOR "DRILL FLOOR" AND FIRST FLOOR MEZZANINE

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DRAWN BY: V.NOLCRAMENKO	SCALE: NOT TO SCALE
CHECKED BY: J. RUCHALSKI	DATE: 09/21/00 A-3

FILE: M:\CADS\75016.001\A-3



SECOND AND THIRD FLOOR

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

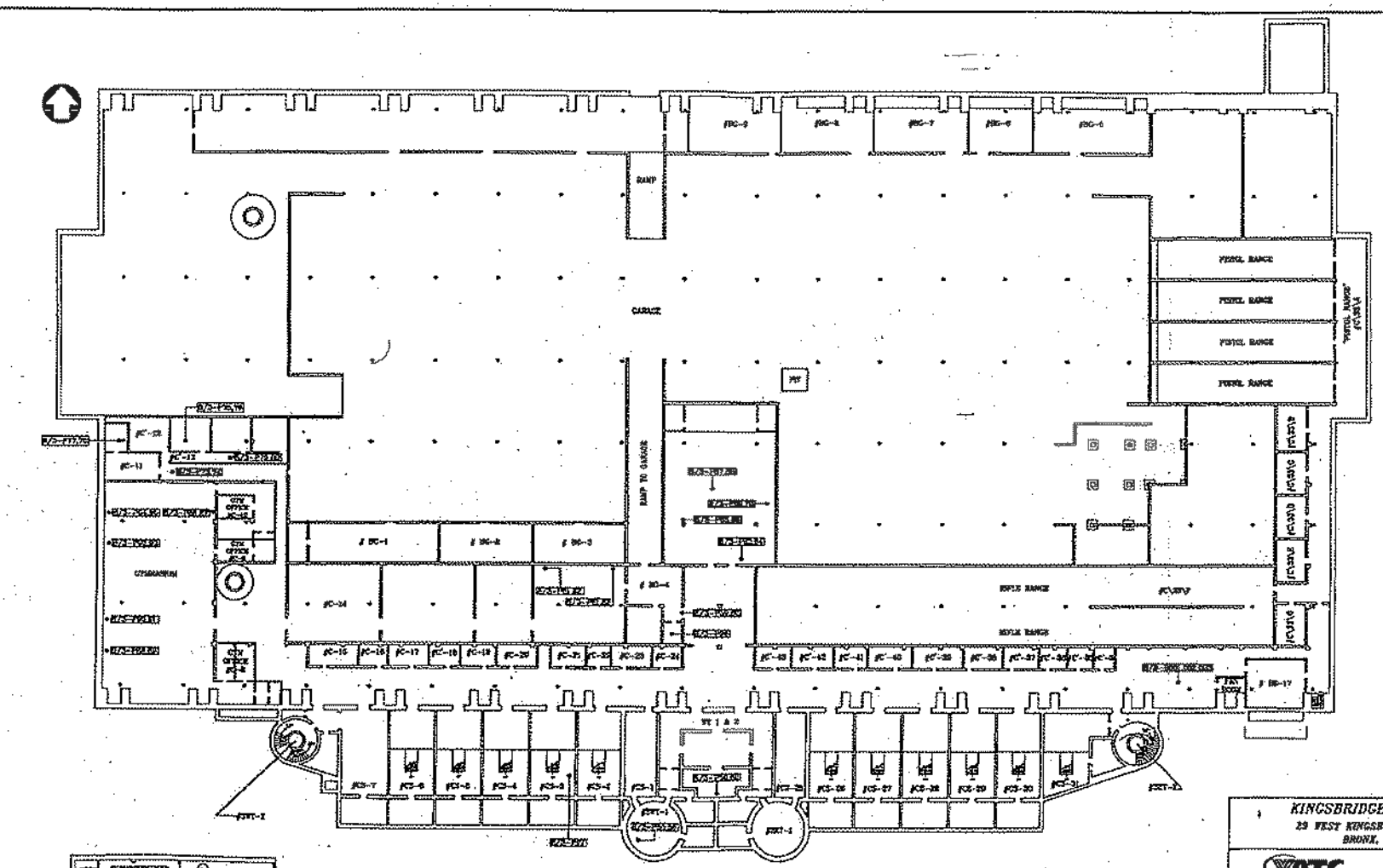
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ROOM NUMBERS

SECOND AND THIRD FLOOR

PROJ. #75018	FILE: M:\CADD#\75018.001\A-4	
DRAWN BY: Y.KOLCHANENKO	SCALE: NOT TO SCALE	
CHECKED BY: J. RUCHALSKI	DATE: 03/21/00	A-4

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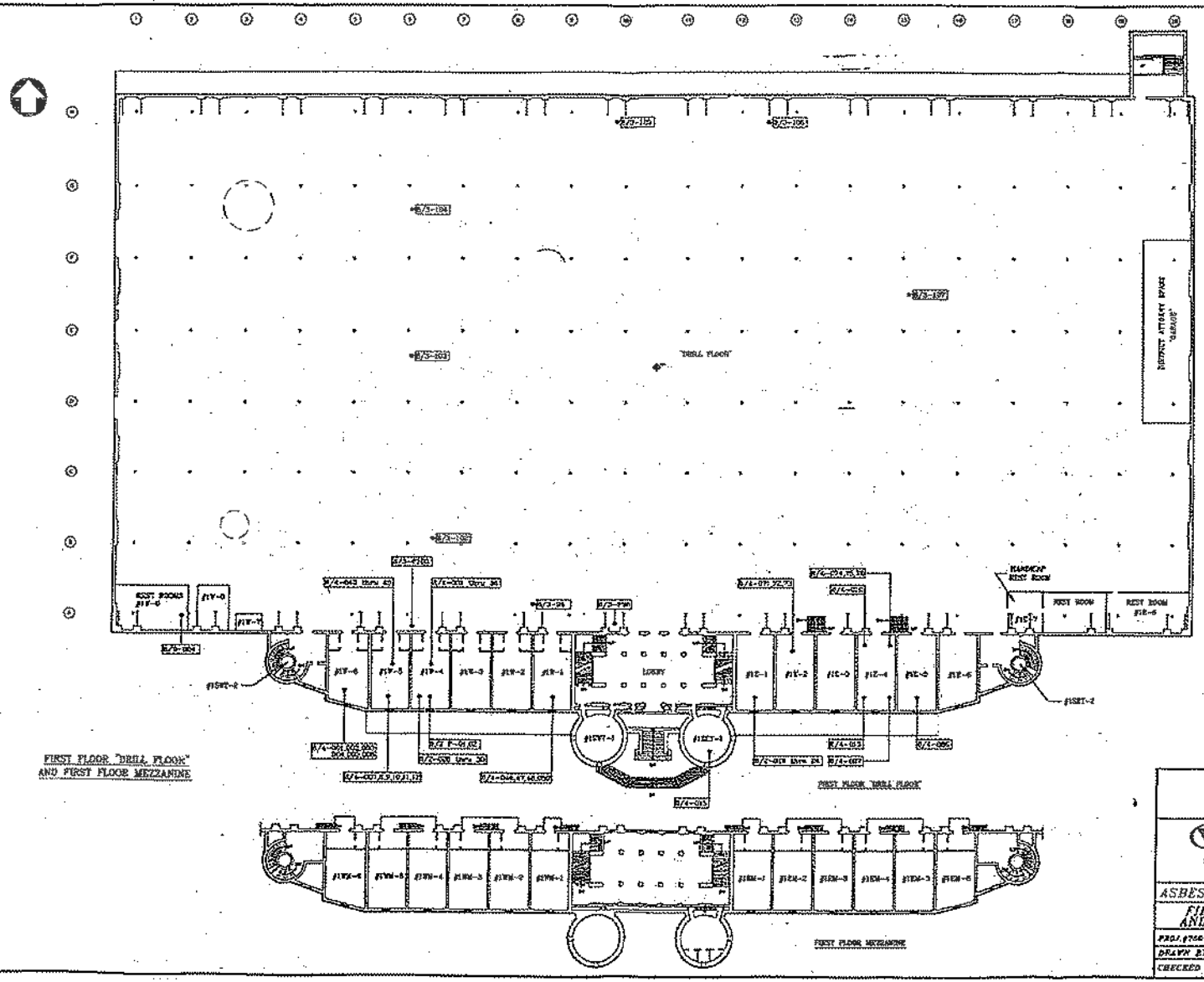
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ASBESTOS BULK SAMPLE LOCATIONS
BASEMENT AND SUB BASEMENT
"BOILER ROOM"

PROJECT#: 01A	FILE: N:\CLOSE\175001B.001\A-BU
DRAWN BY: V. PROLOY	SCALE: NOT TO SCALE
CHECKED BY: J. RUCHALSKI	DATE: 08/15/00

A-BU



FIRST FLOOR "DRILL FLOOR" AND FIRST FLOOR MEZZANINE

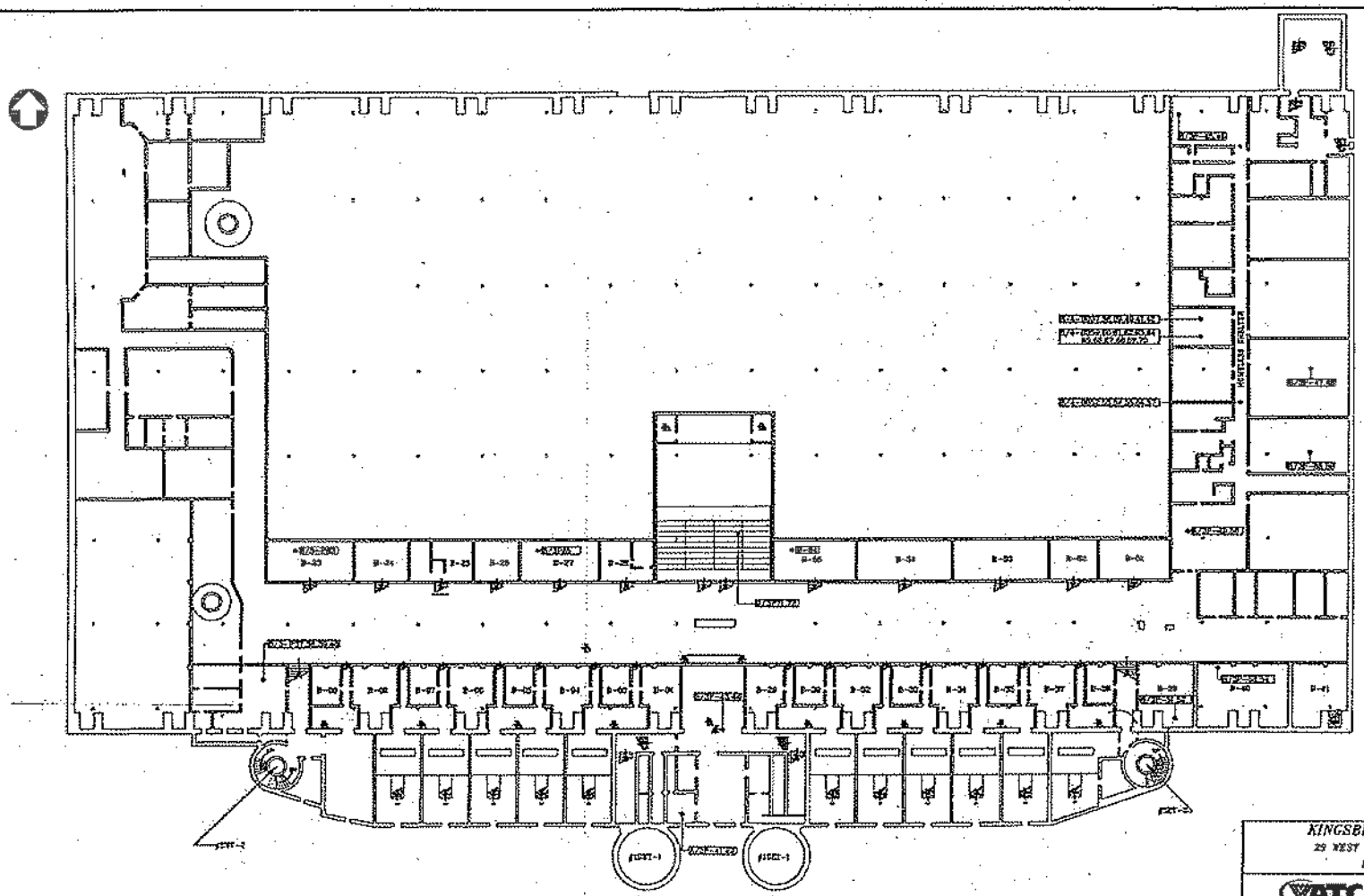
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ASBESTOS BULK SAMPLE LOCATIONS
FIRST FLOOR "DRILL FLOOR" AND FIRST FLOOR MEZZANINE

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DRAWN BY: V.MOLCHANENKO	SCALE: NOT TO SCALE
CHECKED BY: J. ROCHALSKI	DATE: 08/21/00 AB-3

FILE: M:\CAD94\75018.061\AB-3



BASEMENT MEZZANINE PLAN

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

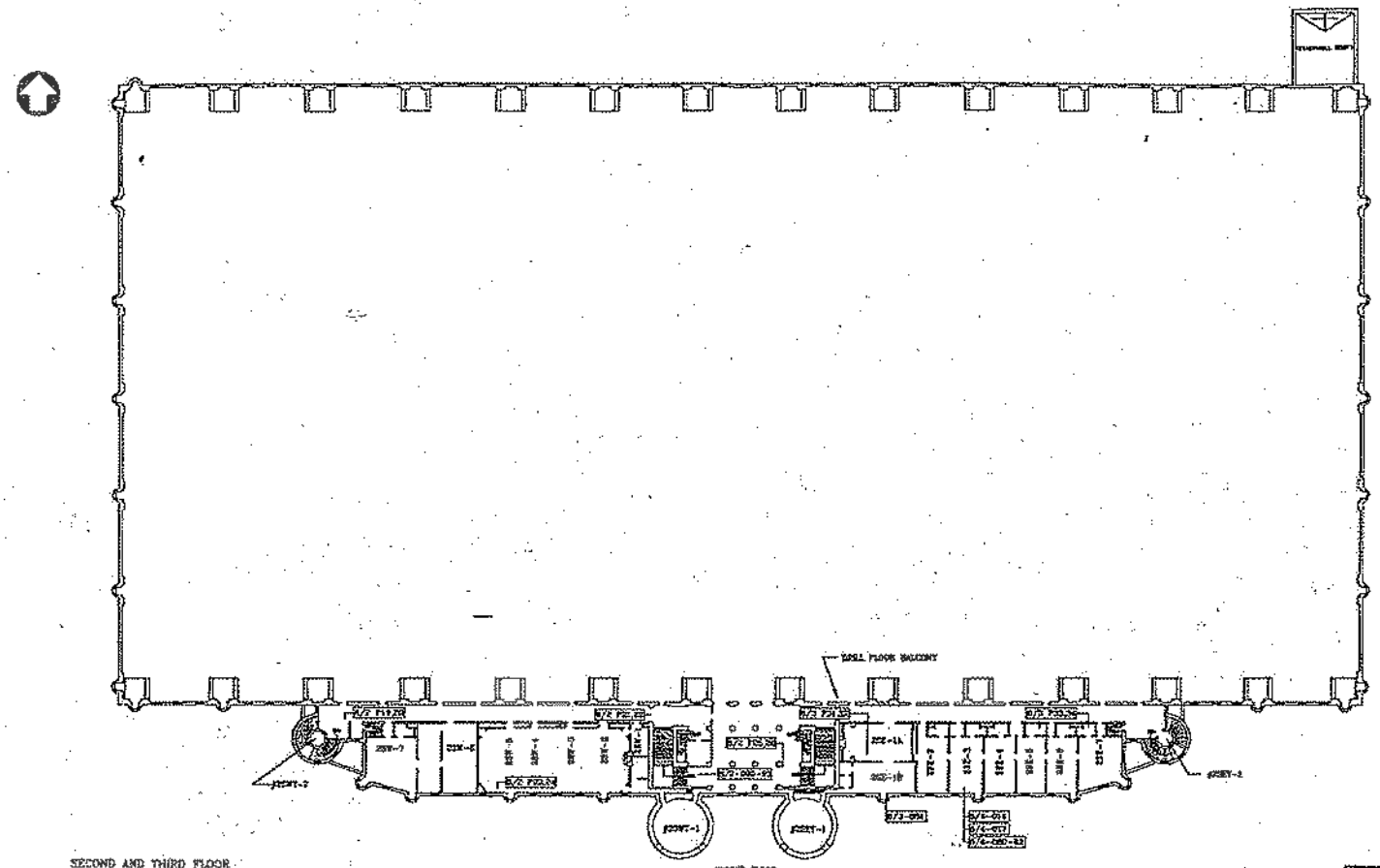
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ASBESTOS BULK SAMPLE LOCATIONS

BASEMENT MEZZANINE PLAN

PROJECT: 50018	FILE: M:\CAD94\75018.001\AB-2
DRAWN BY: V. MOLCHANENKO	SCALE: NOT TO SCALE
CHECKED BY: J. BUCBALSKI	DATE: 09/21/00 AB-2

FILE: M:\CAD94\75018.001\AB-2



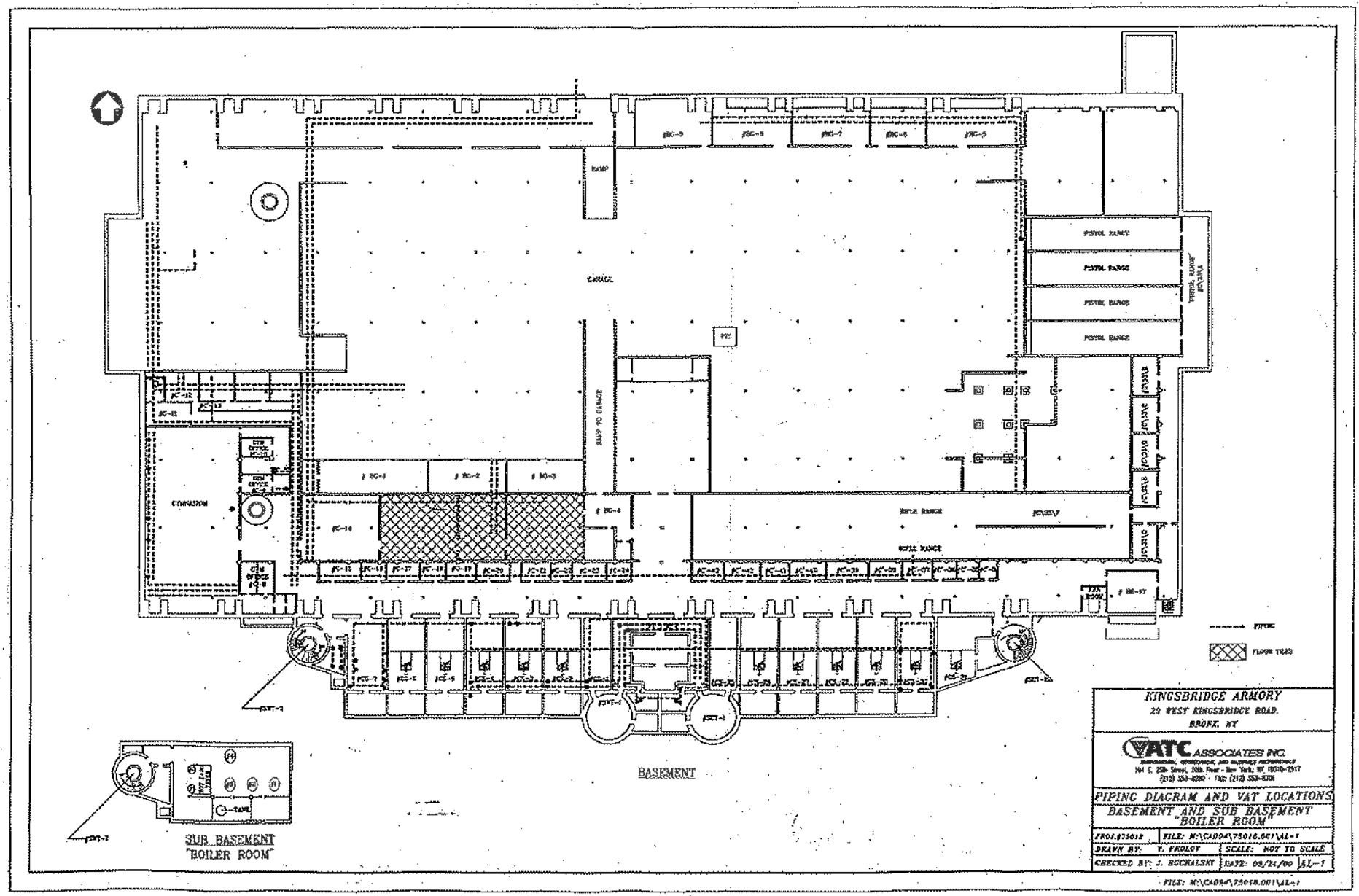
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BRONX, NY

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ASBESTOS BULK SAMPLE LOCATIONS
SECOND AND THIRD FLOOR

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DRAWN BY: Y.MOLCHANENKO	SCALE: NOT TO SCALE
CHECKED BY: J. KUCHALSKI	DATE: 09/21/00 AB-4

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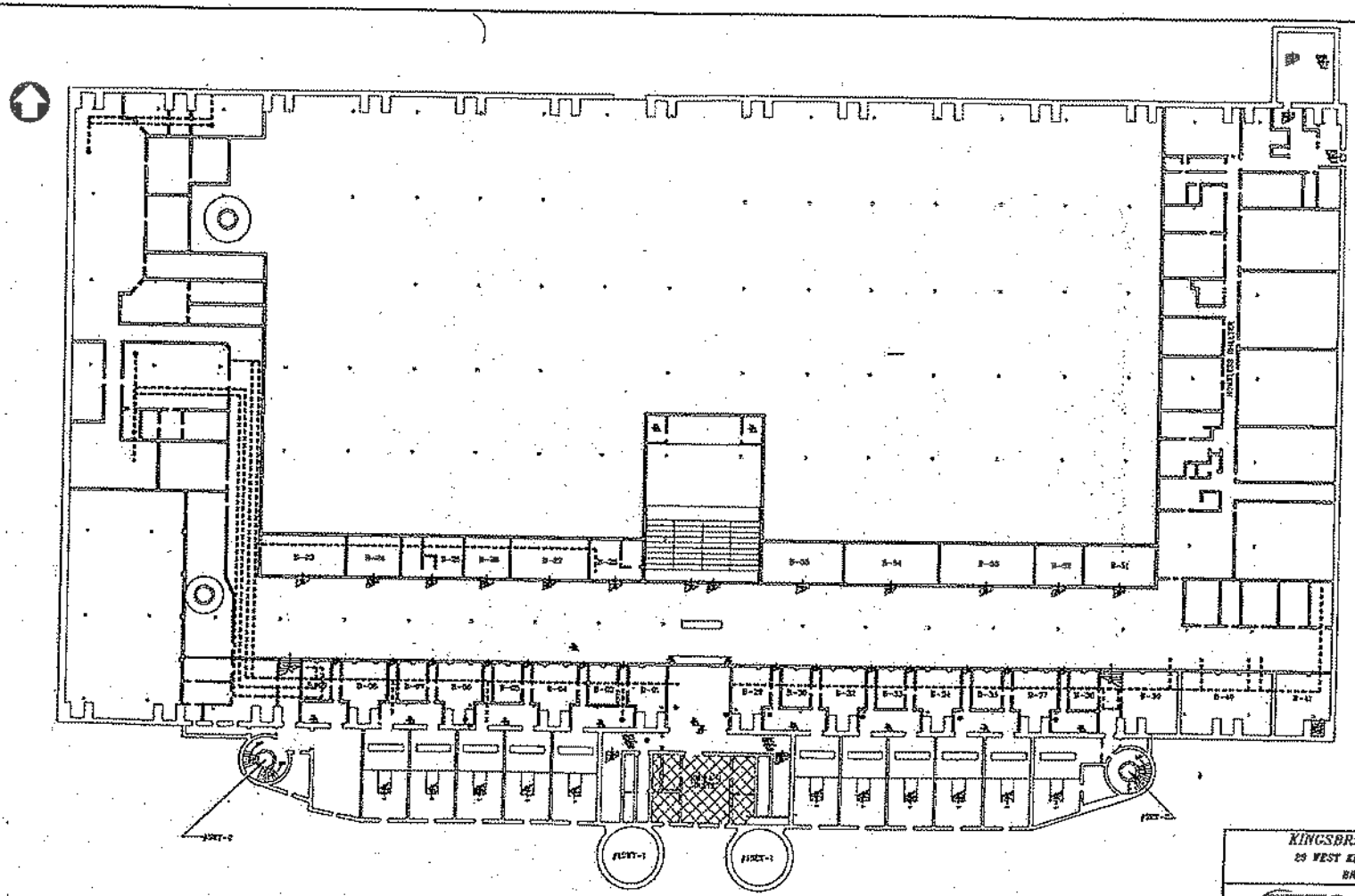
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PIPING DIAGRAM AND VAT LOCATIONS
BASEMENT AND SUB BASEMENT
"BOILER ROOM"

PROJ.#75018	FILE: M:\CADD4\75018.001\AL-1
DRAWN BY: Y. FROLOV	SCALE: NOT TO SCALE
CHECKED BY: J. BUCHALSKY	DATE: 08/24/00 AL-1

FILE: M:\CADD4\75018.001\AL-1



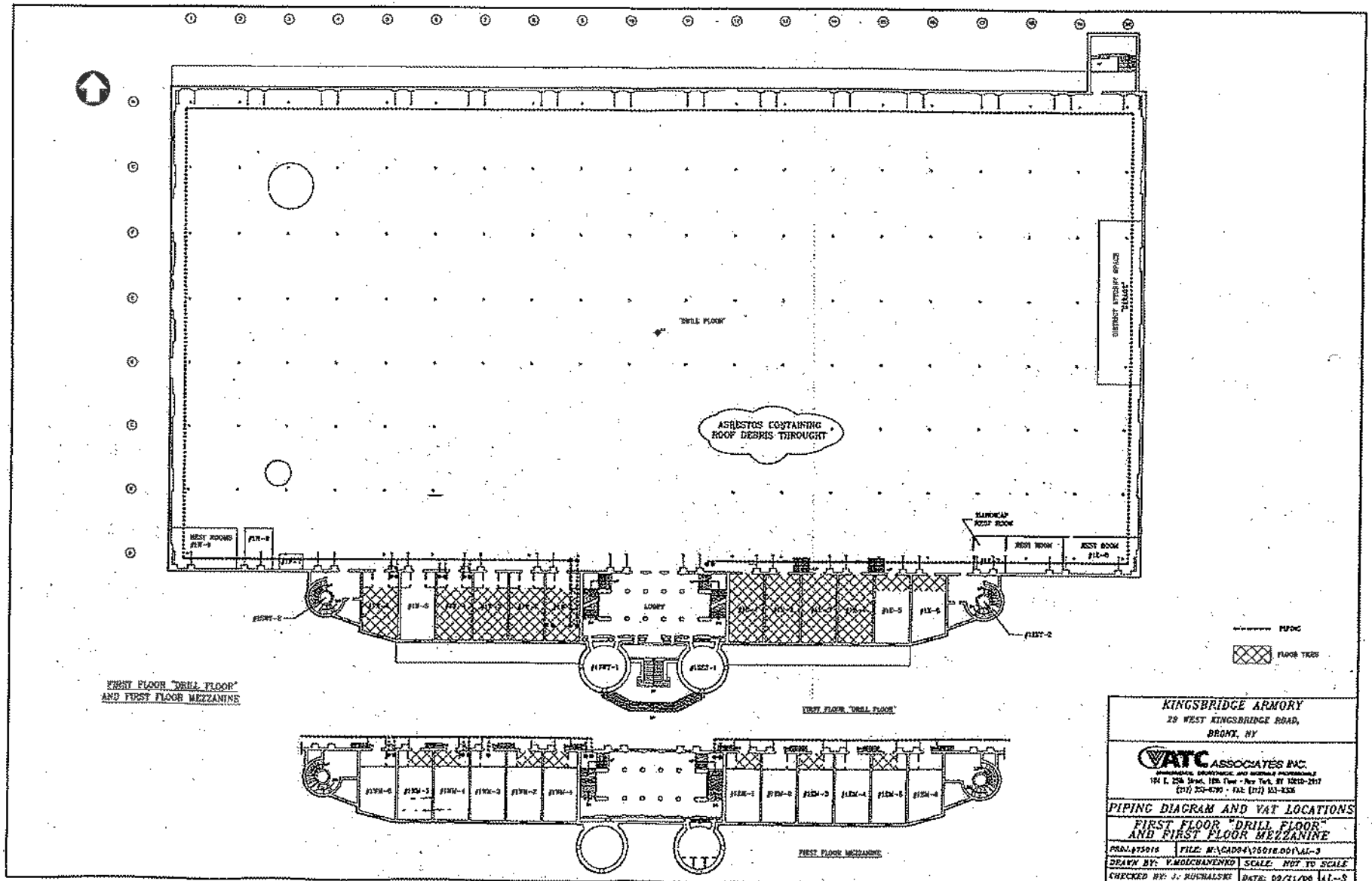
BASEMENT MEZZANINE PLAN

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
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PIPING DIAGRAM AND VAT LOCATIONS

BASEMENT MEZZANINE PLAN



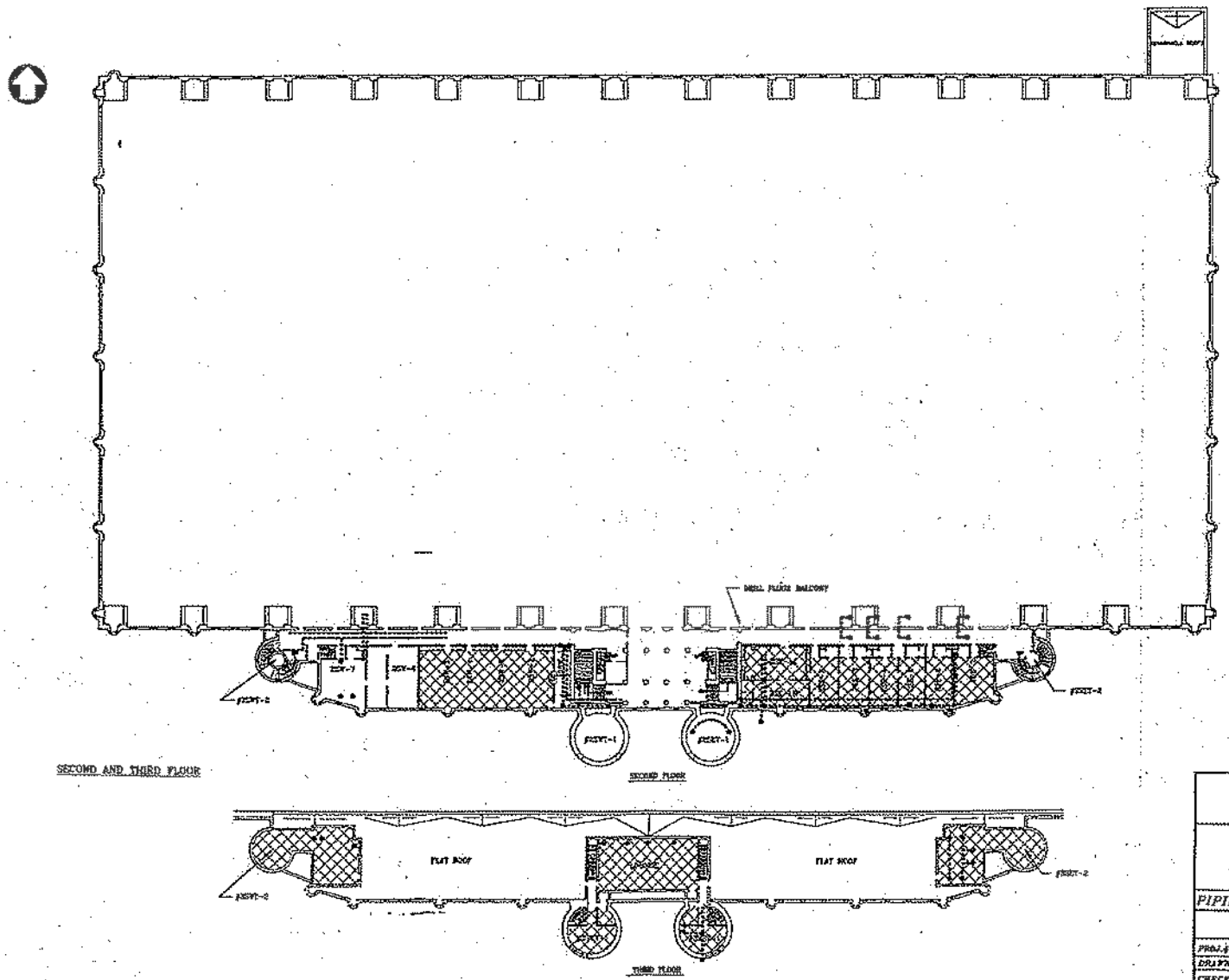
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PIPING DIAGRAM AND VAT LOCATIONS
FIRST FLOOR "DRILL FLOOR" AND FIRST FLOOR MEZZANINE

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DRAWN BY: V.MOLCHANENKO	SCALE: NOT TO SCALE
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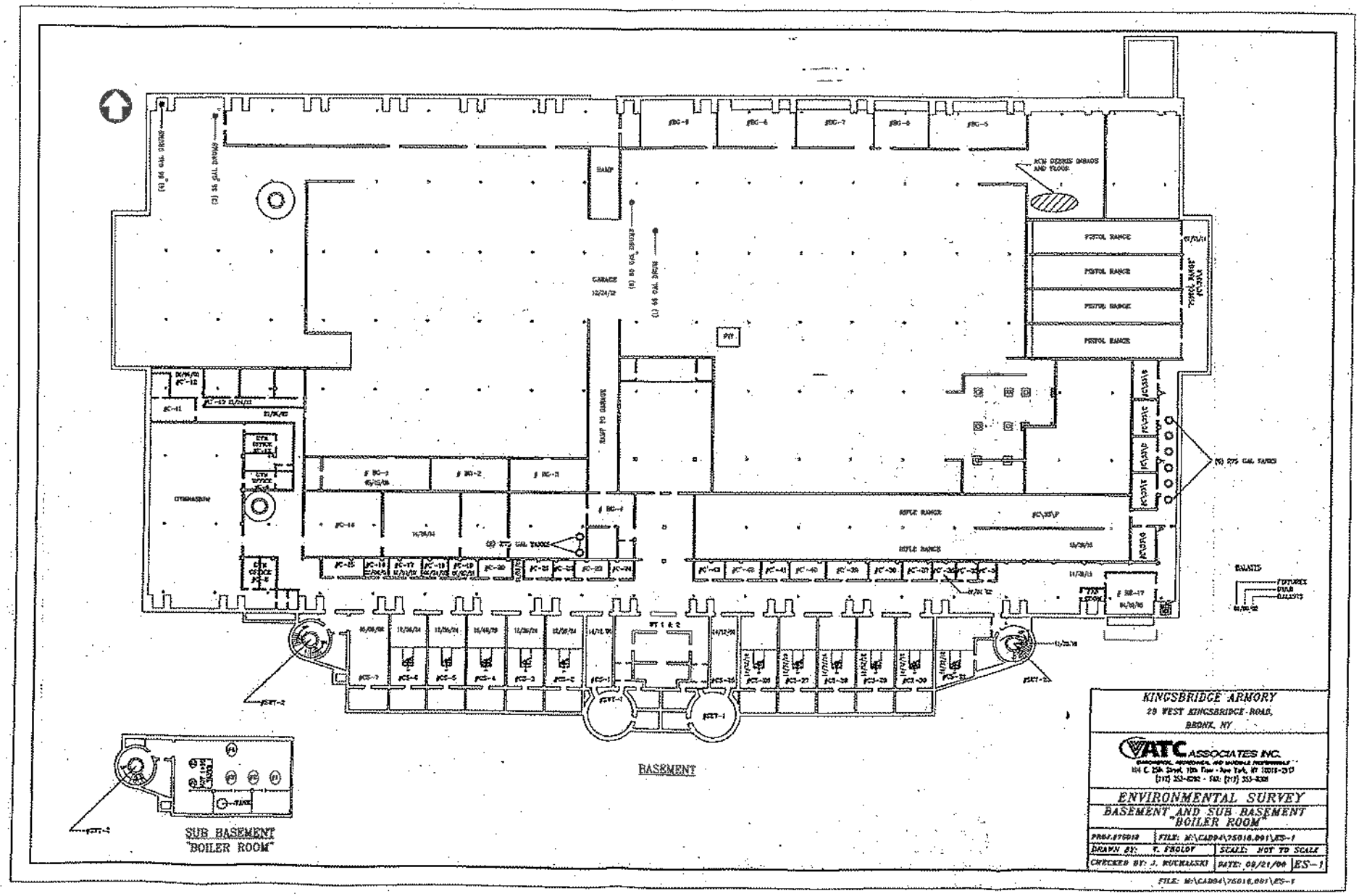
KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

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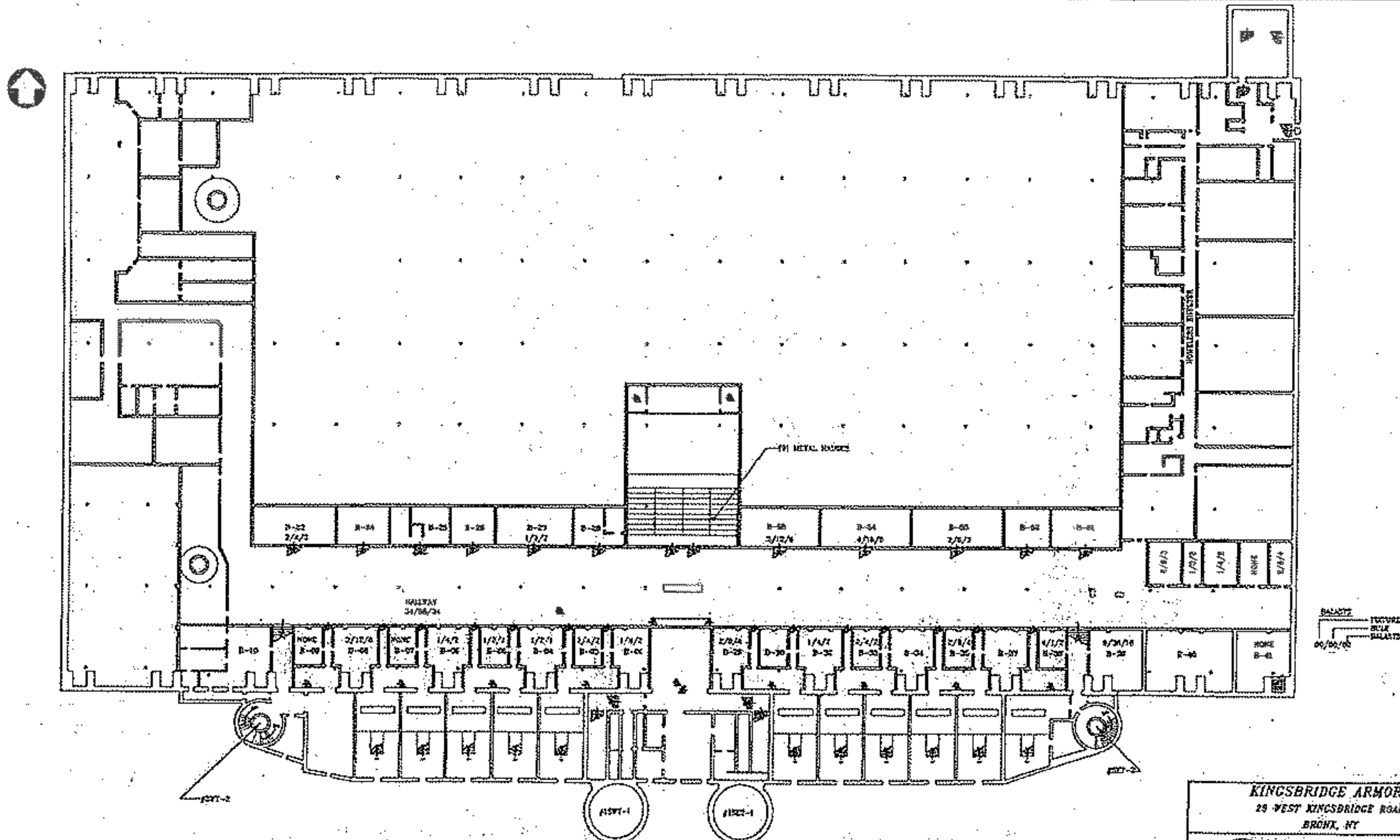
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ENVIRONMENTAL SURVEY
BASEMENT AND SUB BASEMENT
"BOILER ROOM"

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FILE: M:\CAD94\75018.001\ES-1



BASEMENT MEZZANINE PLAN

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD,
BRONX, NY

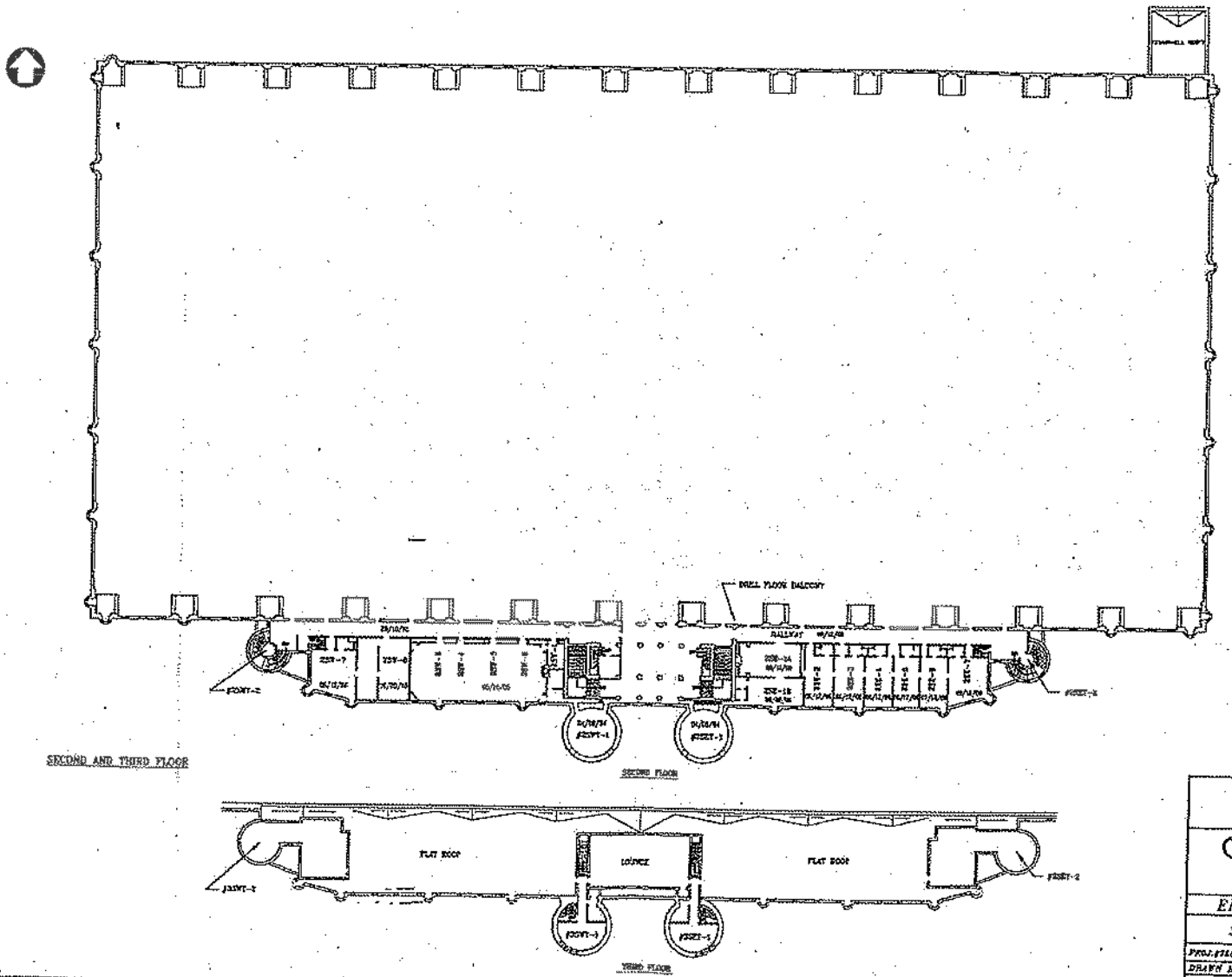
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ENVIRONMENTAL SURVEY

BASEMENT MEZZANINE PLAN

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DRAWN BY: V. MOLCHANENKO	SCALE: NOT TO SCALE	
CHECKED BY: J. RUCHALSKI	DATE: 09/21/00	ES-2

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SECOND AND THIRD FLOOR

KINGSBRIDGE ARMORY
29 WEST KINGSBRIDGE ROAD
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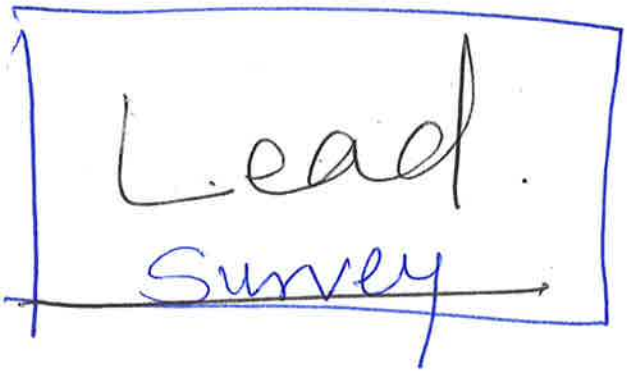
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ENVIRONMENTAL SURVEY

SECOND AND THIRD FLOOR

PROJ: 175018	FILE: M:\CAD94\75018.001\ES-4
DRAWN BY: W.HOLCHANENKO	SCALE: NOT TO SCALE
CHECKED BY: J. BUCHALSKI	DATE: 09/21/00 ES-4

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APPENDIX E:
XRF SURVEY DATA AND BULK SAMPLES

Tab. 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	1	Calibrate						1.9		
7/24	2	Calibrate						1.7	Avg. 1.8	
7/24	3	Calibrate						1.8		
7/24	4	Boiler room	Wall	1	Concrete	White	Poor	>9.9	Positive	
7/24	5	Basement	Wall	2	Concrete	Grey	Poor	0.4		
7/24	6	Basement	Wall	3	Brick	Grey	Poor	7.1	Positive	
7/24	7	Basement	Wall	3	Concrete	White	Poor	0.5		
7/24	8	Basement	Wall	4	Concrete	Grey	Poor	8.5	Positive	
7/24	9	Basement	Column	6	Concrete	White	Poor	4.5	Positive	
7/24	10	Basement	Boiler units	6	Metal	Grey	Fair	0.0		
7/24	11	Basement	Hot water heater	1	Metal	Brown	Fair	0.4		
7/24	12	Basement	Horizontal duct	5	Metal	Grey	Fair	0.0		
7/24	13	Basement	Ceiling	5	Concrete	Grey	Poor	2.9	Positive	
7/24	14	Basement	Hand rail	2	Metal	Grey	Fair	0.4		
7/24	15	Basement	Stair tread	2	Metal	Grey	Poor	1.0	Positive	Negative
7/24	16	R#1	Wall	1	Concrete	White	Poor	-0.0		
7/24	17	R#1	Wall	3	Concrete	White	Poor	0.3		
7/24	18	R#1	Ceiling	5	Concrete	Grey	Poor	0.0		
7/24	19	R#2	Wall	1	Brick	White	Poor	0.1		
7/24	20	R#2	Wall	1	Concrete	White	Poor	0.2		
7/24	21	R#2	Wall	2	Concrete	White	Poor	-0.1		
7/24	22	R#2	Wall	3	Brick	Grey	Poor	>9.9	Positive	
7/24	23	R#2	Wall	4	Brick	White	Poor	-0.1		
7/24	24	R#2	Door	2	Metal	Grey	Poor	>9.9	Positive	

Tab. I
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	25	R#2	Control panel	3	Metal	Grey	Poor	1.0		Negative
7/24	26	R#3	Door	1	Metal	Green	Poor	5.3	Positive	
7/24	27	R#3	Wall	1	Brick	White	Poor	-0.1		
7/24	28	R#3	Wall	2	Brick	White	Poor	-0.2		
7/24	29	R#3	Wall	3	Concrete	White	Poor	-0.1		
7/24	30	R#3	Wall	4	Concrete	White	Poor	-0.1		
7/24	31	R#3	Control panel	2	Metal	Green	Poor	0.0		
7/24	32	R#3	Cabin	1	Metal	Grey	Poor	0.5		
7/24	33	Boiler room	Door	4	Metal	Grey	Poor	>9.9	Positive	
7/24	34	R#4	Door	1	Metal	Grey	Poor	5.6	Positive	
7/24	35	R#4	Wall	1	Concrete	Grey	Poor	0.3		
7/24	36	R#4	Wall	2	Concrete	Grey	Poor	0.1		
7/24	37	R#4	Wall	3	Concrete	Grey	Poor	0.3		
7/24	38	R#4	Wall	4	Concrete	Grey	Poor	0.2		
7/24	39	R#5	Roof	1	Metal	Grey	Poor	>9.9	Positive	
7/24	40	R#5	Wall	1	Brick	Grey	Poor	-0.2		
7/24	41	R#5	Wall	2	Brick	Grey	Poor	-0.1		
7/24	42	R#5	Wall	3	Concrete	Grey	Poor	0.1		
7/24	43	R#5	Wall	4	Concrete	Grey	Poor	0.4		
7/24	44	R#5	Horizontal pipe	6	Metal	Grey	Fair	1.4	Positive	
7/24	45	R#5	Pipe riser	6	Metal	Grey	Fair	0.7		
7/24	46	R#5	Gas booster	6	Metal	Blue	Fair	-0.1		
7/24	47	R#6	Door	1	Metal	Grey	Poor	>9.9	Positive	
7/24	48	R#6	Wall	1	Concrete	Grey	Poor	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	49	R#6	Wall	2	Concrete	Grey	Poor	0.0		
7/24	50	R#6	Wall	3	Concrete	White	Poor	-0.2		
7/24	51	R#6	Wall	4	Concrete	Grey	Poor	-0.0		
7/24	52	R#6	Wall	1	Concrete	White	Poor	0.4		
7/24	53	R#6	Wall	2	Concrete	Grey	Poor	7.9	Positive	
7/24	54	R#6	Wall	3	Concrete	White	Poor	-0.1		
7/24	55	R#6	Wall	4	Concrete	Grey	Poor	>9.9	Positive	
7/24	56	R#6	Door	1	Metal	Grey	Poor	0.1		
7/24	57	R#6	Door case	1	Metal	Grey	Poor	-0.1		
7/24	58	Staircase	Wall	2	Brick	White	Fair	3.6	Positive	
7/24	59	Staircase	Wall	3	Brick	Grey	Fair	>9.9	Positive	
7/24	60	Staircase	Wall	4	Brick	Grey	Fair	2.0	Positive	
7/24	61	Staircase	Stair tread	6	Concrete	Grey	Poor	0.0		
7/24	62	Staircase	Stair riser	6	Concrete	Grey	Poor	0.1		
7/24	63	Staircase	Stringer	6	Concrete	Grey	Poor	-0.2		
7/24	64	Staircase	Hand rail	6	Brick	Grey	Poor	3.0	Positive	
7/24	65	Corridor	Wall	1	Brick	White	Poor	6.7	Positive	
7/24	66	Mezzanine	Wall	2	Brick	Grey	Poor	7.3	Positive	
7/24	67	Basement	Wall	3	Brick	White	Poor	0.2	Positive	
7/24	68	Basement	Wall	3	Concrete	Grey	Poor	0.2		
7/24	69	Basement	Wall	4	Brick	White	Poor	5.2	Positive	
7/24	70	R#1	Door	1	Wood	Green	Poor	0.5		
7/24	71	SWTC	Door case	1	Wood	Green	Poor	0.3		
7/24	72	SWTC	Door case	1	Brick	Blue	Poor	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	73	SWTC	Door case	2	Brick	Blue	Poor	0.1		
7/24	74	SWTC	Door case	3	Concrete	Blue	Poor	1.5	Positive	
7/24	75	R#1	Wall	4	Brick	Blue	Poor	0.5		
7/24	76	SWTC	Pipe riser	2	Metal	Blue	Poor	0.3		
7/24	77	R#2	Door	1	Metal	Blue	Poor	1.4	Positive	
7/24	78	SWTC	Door case	1	Metal	Blue	Poor	1.7	Positive	
7/24	79	SWTC	Wall	1	Brick	Blue	Poor	>9.9	Positive	
7/24	80	SWTC	Wall	2	Brick	Blue	Poor	>9.9	Positive	
7/24	81	SWTC	Wall	3	Brick	Blue	Poor	>9.9	Positive	
7/24	82	SWTC	Wall	4	Brick	Blue	Poor	>9.9	Positive	
7/24	83	SWTC	Pipe riser	4	Metal	Blue	Poor	2.4	Positive	
7/24	84	SWTC	Window sash	3	Wood	Blue	Poor	>9.9	Positive	
7/24	85	SWTC	Window sash	3	Wood	Blue	Poor	>9.9	Positive	
7/24	86	SWTC	Window case	3	Wood	Blue	Poor	>9.9	Positive	
7/24	87	SWTC	Window apron	3	Wood	Blue	Poor	>9.9	Positive	
7/24	88	Corridor	Radiator	1	Metal	White	Poor	0.4		
7/24	89	R#4	Door 1	1	Metal	Grey	Poor	1.0	Positive	
7/24	90	C16	Door case	1	Metal	Grey	Poor	1.9	Positive	
7/24	91	C16	Door 2	1	Metal	Grey	Poor	-0.1		
7/24	92	C16	Wall	1	Concrete	Blue	Poor	0.1		
7/24	93	C16	Wall	2	Concrete	Blue	Poor	-0.4		
7/24	94	C16	Wall	3	Brick	Blue	Poor	0.5		
7/24	95	C16	Wall	4	Concrete	Blue	Poor	0.3		
7/24	96	C16	Beam	3	Metal	Blue	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	97	R#5	Door 1	1	Metal	Grey	Poor	4.2	Positive	
7/24	98	C17	Door case	1	Metal	Grey	Poor	-0.2		
7/24	99	C17	Door 2	1	Metal	Grey	Poor	-0.0		
7/24	100	C17	Wall	1	Concrete	White	Poor	-0.1		
7/24	101	C17	Wall	2	Concrete	Grey	Poor	0.1		
7/24	102	C17	Wall	3	Brick	White	Poor	0.3		
7/24	103	C17	Wall	4	Brick	Grey	Poor	0.1		
7/24	104	C17	Beam	3	Metal	White	Poor	>9.9	Positive	
7/24	105	C17	Pipe riser	5	Metal	White	Poor	9.1	Positive	
7/24	106	R#6	Door	1	Metal	Black	Poor	2.2	Positive	
7/24	107	C18	Door case	1	Metal	Grey	Poor	-0.1		
7/24	108	C18	Door case	1	Metal	Grey	Poor	0.3		
7/24	109	C18	Wall	1	Concrete	Grey	Poor	-0.3		
7/24	110	C18	Wall	2	Concrete	White	Poor	0.3		
7/24	111	C18	Wall	3	Brick	Grey	Poor	-0.1		
7/24	112	R#6	Wall	4	Concrete	Grey	Poor	-0.0		
7/24	113	C18	Beam	3	Metal	Grey	Poor	>9.9	Positive	
7/24	114	C18	Pipe	5	Metal	Grey	Poor	7.1	Positive	
7/24	115	C18	Frame	4	Wood	Grey	Poor	0.1		
7/24	116	R#7	Door	1	Metal	Grey	Poor	1.4	Positive	
7/24	117	C19	Door case	1	Metal	Grey	Poor	2.3	Positive	
7/24	118	C19	Door	1	Metal	Grey	Poor	0.0		
7/24	119	C19	Wall	1	Concrete	Grey	Poor	3.7	Positive	
7/24	120	C19	Wall	2	Concrete	Grey	Poor	6.0	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	121	C19	Wall	3	Brick	Grey	Poor	5.1	Positive	
7/24	122	C19	Wall	4	Concrete	Grey	Poor	1.4	Positive	
7/24	123	C19	Beam	3	Metal	Grey	Poor	>9.9	Positive	
7/24	124	C19	Horizontal pipe	5	Metal	Grey	Poor	9.4	Positive	
7/24	125	C19	Shelf	3	Wood	Grey	Poor	-0.1		
7/24	126	C19	Shelf sup.	1	Wood	Grey	Poor	0.3		
7/24	127	Alarm	Gate	1	Metal	Grey	Poor	-0.1		
7/24	128	Control room	Wall	2	Concrete	Grey	Fair	+0.2		
7/24	129	Control room	Wall	3	Brick	Grey	Poor	0.3		
7/24	130	Control room	Wall	4	Concrete	Grey	Fair	-0.0		
7/24	131	Control room	Pipe horizontal	5	Metal	Grey	Poor	>9.9	Positive	
7/24	132	Control room	Control panel	4	Metal	Red	Fair	0.0		
7/24	133	Control room	Beam	3	Metal	White	Poor	>0.0	Positive	
7/24	134	R#8	Door	1	Metal	Grey	Poor	1.4	Positive	
7/24	135	C21	Door case	1	Metal	Grey	Poor	2.4	Positive	
7/24	136	C21	Wall	1	Concrete	White	Poor	2.6	Positive	
7/24	137	C21	Wall	2	Concrete	Grey	Poor	2.4	Positive	
7/24	138	C21	Wall	3	Brick	White	Poor	5.7	Positive	
7/24	139	C21	Wall	4	Concrete	Grey	Poor	0.0		
7/24	140	C21	Beam	3	Metal	Grey	Poor	>9.9	Positive	
7/24	141	C21	Pillar	3	Brick	White	Poor	3.8	Positive	
7/24	142	C21	Pipe horizontal	5	Metal	Grey	Poor	>9.9	Positive	
7/24	143	C21	Floor	6	Concrete	Grey	Poor	0.5		
7/24	144	R#	Door 1	1	Metal	Grey	Poor	1.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/24	145	C41	Door case	1	Metal	Grey	Poor	3.1	Positive	
7/24	146	C41	Wall	1	Concrete	Grey	Poor	0.4		
7/24	147	C41	Wall	2	Concrete	Grey	Poor	-0.1		
7/24	148	C41	Wall	3	Brick	Grey	Poor	-0.0		
7/24	149	RC41	Wall	4	Concrete	Grey	Poor	-0.1		
7/24	150	RC41	Beam	3	Metal	Grey	Poor	>9.9	Positive	
7/24	151	RC41	Pillar	3	Brick	Grey	Poor	0.1		
7/24	152	RC41	Horizontal pipe	5	Metal	Grey	Poor	>9.9	Positive	
7/24	153	RC41	Door 2	1	Metal	Grey	Poor	-0.1		
7/24	154	RC33E	Door	1	Metal	Grey	Fair	1.4	Positive	
7/24	155	RC33E	Door case	1	Metal	Grey	Fair	2.5	Positive	
7/24	156	RC33E	Wall	3	Brick	White	Poor	0.3		
7/24	157	RC33E	Pipe riser	3	Metal	White	Poor	1.4	Positive	
7/24	158	RC33E	Beam	5	Metal	Beige	Fair	>9.9	Positive	
7/24	159	RC33E	Ceiling	6	Concrete	White	Fair	-0.0		
7/25	1	Calibrate						1.9		
7/25	2	Calibrate						1.7	Avg. 1.8	
7/25	3	Calibrate						1.7		
7/25	4	Office 1	Door	1	Metal	Grey	Poor	0.0		
7/25	5	Basement	Door case	1	Metal	Grey	Poor	-0.1		
7/25	6	Basement	Wall	1	Plaster	Blue	Poor	>9.9	Positive	
7/25	7	Basement	Wall	2	Plaster	Blue	Poor	>9.9	Positive	
7/25	8	Basement	Wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/25	9	Basement	Wall	4	Plaster	Beige	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	10	Basement	Ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/25	11	Basement	Partition	2	Wood	Blue	Poor	2.5	Positive	
7/25	12	Basement	Baseboard	2	Wood	Blue	Poor	0.4		
7/25	13	Basement	Radiator	2	Metal	Silver	Poor	0.1		
7/25	14	Basement	Radiator cover	2	Metal	Blue	Poor	0.5		
7/25	15	Basement	Window sill	2	Wood	Blue	Poor	2.4	Positive	
7/25	16	Basement	Window case	2	Wood	Blue	Poor	2.4	Positive	
7/25	17	Basement	Window apron	2	Wood	Blue	Poor	1.6	Positive	
7/25	18	Basement	Pipe	5	Metal	Beige	Poor	>9.9	Positive	
7/25	19	Basement	Partition	3	Wood	White	Poor	1.5	Positive	
7/25	20	Bay area	Wall	1	Brick	Beige	Poor	0.3		
7/25	21	By shelter	Wall	2	Brick	Grey	Poor	8.3	Positive	
7/25	22	By shelter	Wall	3	Brick	Beige	Poor	-0.0		
7/25	23	By shelter	Wall	4	Brick	White	Poor	>9.9	Positive	
7/25	24	By shelter	I-beams	6	Metal	White	Poor	>9.9	Positive	
7/25	25	By shelter	I-beams	6	Metal	Grey	Poor	>9.9	Positive	
7/25	26	By shelter	I-beams	6	Metal	White	Poor	>9.9	Positive	
7/25	27	By shelter	Stair tread	6	Concrete	Grey	Poor	0.0		
7/25	28	By shelter	Stair riser	6	Concrete	Grey	Poor	0.4		
7/25	29	By shelter	Stair tread	6	Wood	Grey	Poor	-0.0		
7/25	30	By shelter	Stair riser	6	Wood	Grey	Poor	0.3		
7/25	31	By shelter	Stair stringer	6	Wood	Grey	Poor	0.2		
7/25	32	By shelter	Column	6	Brick/Concrete	Grey	Poor	>9.9	Positive	
7/25	33	RB7	Door	1	Brick/Concrete	Grey	Poor	4.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	34	RB7	Door case	1	Brick/Concrete	Grey	Poor	5.1	Positive	
7/25	35	RB7	Wall	1	Brick	Grey	Poor	2.6	Positive	
7/25	36	RB7	Wall	2	Concrete	Grey	Poor	9.7	Positive	
7/25	37	RB7	Wall	2	Wood	Grey	Poor	0.0		
7/25	38	RB7	Wall	3	Brick	White	Poor	3.0	Positive	
7/25	39	RB7	Wall	4	Brick	Grey	Poor	4.1	Positive	
7/25	40	RB7	Pillar	3	Brick	Grey	Poor	3.1	Positive	
7/25	41	RB7	Beam	5	Metal	Grey	Poor	7.5	Positive	
7/25	42	RB7	Shelf	1	Wood	Grey	Poor	0.1		
7/25	43	RB7	Shelf support	1	Wood	Grey	Poor	2.8	Positive	
7/25	44	RB7	Floor	6	Concrete	Grey	Poor	1.0	Positive	
7/25	45	RB55	Door	1	Metal	Green	Poor	0.2		
7/25	46	RB55	Door case	1	Metal	Green	Poor	3.7	Positive	
7/25	47	RB55	Wall	1	Brick	White	Poor	-0.0		
7/25	48	RB55	Wall	2	Plaster	Grey	Poor	-0.1		
7/25	49	RB55	Wall	3	Plaster	Grey	Poor	-0.1		
7/25	50	RB55	Wall	4	Wood	Grey	Poor	2.3	Positive	
7/25	51	RB55	Beam	5	Metal	White	Poor	4.3	Positive	
7/25	52	RB55	Shelf	4	Wood	Grey	Poor	0.4		
7/25	53	RB55	Shelf	4	Wood	Grey	Poor	0.6		
7/25	54	B32	Door	1	Metal	Grey	Poor	4.5	Positive	
7/25	55	B32	Door case	1	Metal	Grey	Poor	5.5	Positive	
7/25	56	B32	Wall	1	Brick	Grey	Poor	0.7		
7/25	57	B32	Wall	2	Brick	Grey	Poor	3.7	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	58	B32	Wall	3	Brick	Grey	Poor	-0.0		
7/25	59	B32	Wall	4	Brick	Grey	Poor	4.7	Positive	
7/25	60	B32	Beam	5	Brick	Grey	Poor	6.2	Positive	
7/25	61	B32	Shelf	3	Wood	Grey	Poor	-0.1		
7/25	62	B32	Shelf support	3	Wood	Grey	Poor	0.0		
7/25	63	Balcony	Door	1	Wood	Grey	Poor	0.0		
7/25	64	Lecture hall	Door case	1	Metal	Grey	Poor	0.6		
7/25	65	Lecture hall	Wall	1	Concrete	Grey	Poor	-0.1		
7/25	66	Lecture hall	Wall	2	Concrete	Grey	Poor	0.3		
7/25	67	Lecture hall	Wall	4	Concrete	Grey	Poor	-0.1		
7/25	68	Lecture hall	Stair tread	1	Concrete	Grey	Poor	0.3		
7/25	69	Lecture hall	Stair riser	1	Concrete	Grey	Poor	-0.1		
7/25	70	Lecture hall	Hand rail	2	Metal	Grey	Poor	8.7	Positive	
7/25	71	Lecture hall	Floor	6	Concrete	Grey	Poor	-0.3		
7/25	72	RB13	Door	1	Metal	Green	Poor	0.4		
7/25	73	RB13	Door case	1	Metal	Green	Poor	0.3		
7/25	74	RB13	Wall	1	Brick	White	Poor	1.7	Positive	
7/25	75	RB13	Wall	2	Brick	Green	Poor	2.8	Positive	
7/25	76	RB13	Wall	3	Brick	Green	Poor	3.1	Positive	
7/25	77	RB13	Wall	4	Brick	Green	Poor	2.3	Positive	
7/25	78	RB13	Pipe riser	1	Metal	Green	Poor	2.1	Positive	
7/25	79	RB13	Radiator	3	Metal	Green	Poor	2.3	Positive	
7/25	80	RB13	Floor	6	Concrete	Green	Poor	1.7	Positive	
7/25	81	RB13	Cabinet door	3	Wood	Green	Poor	0.2		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	82	RB13	Cabinet door case	3	Wood	Green	Poor	0.2		
7/25	83	RB17	Door	1	Metal	Green	Poor	0.5		
7/25	84	RB17	Door case	1	Metal	Green	Poor	2.1	Positive	
7/25	85	RB17	Wall	1	Brick	Green	Poor	-0.1		
7/25	86	RB17	Wall	2	Brick	White	Poor	3.5	Positive	
7/25	87	RB17	Wall	3	Brick	Green	Poor	0.1		
7/25	88	RB17	Wall	4	Brick	White	Poor	0.2		
7/25	89	RB17	Column I-beam	6	Metal	White	Poor	>9.9	Positive	
7/25	90	RB17	Window sill	4	Wood	Green	Poor	0.1		
7/25	91	RB17	Window case	1	Wood	Green	Poor	0.1		
7/25	92	RB17	Window apron	1	Wood	Green	Poor	-0.0		
7/25	93	RB17	Window sash	1	Wood	Green	Poor	0.0		
7/25	94	RB17	Radiator	1	Metal	Silver	Poor	4.8	Positive	
7/25	95	RB17	Pipe riser	6	Metal	Grey	Poor	0.4		
7/25	96	RB17	Floor	6	Concrete	Grey	Poor	0.3		
7/25	97	RB20	Door	1	Metal	Grey	Poor	0.4		
7/25	98	RB20	Door case	1	Metal	Grey	Poor	>9.9	Positive	
7/25	99	RB20	Wall	1	Brick	White	Poor	>9.9	Positive	
7/25	100	RB20	Wall	2	Brick	Grey	Poor	>9.9	Positive	
7/25	101	RB20	Wall	3	Brick	White	Poor	>9.9	Positive	
7/25	102	RB20	Wall	4	Brick	Grey	Poor	>9.9	Positive	
7/25	103	RB20	I-beam	6	Metal	Grey	Poor	>9.9	Positive	
7/25	104	RB20	Shelf	2	Wood	Grey	Poor	0.2		
7/25	105	RB20	Shelf support	2	Wood	Grey	Poor	0.4		

Table
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	106	RB20	Floor	6	Concrete	Grey	Poor	0.5		
7/25	107	Bay #2	Wall	1	Plaster	Grey	Poor	0.0		
7/25	108	Bay #2	Wall	2	Brick	Grey	Poor	0.1		
7/25	109	Bay #2	Wall	3	Concrete	Grey	Poor	0.2		
7/25	110	Bay #2	Wall	4	Plaster	Grey	Poor	0.2		
7/25	111	Bay #2	I-beam	6	Metal	Grey	Poor	-0.1		
7/25	112	Bay #2	Pipe riser	3	Metal	Grey	Poor	2.9	Positive	
7/25	113	Bay #2	Radiator	3	Metal	Grey	Poor	0.1		
7/25	114	Gym	Door	1	Metal	Grey	Poor	2.1	Positive	
7/25	115	Gym	Door case	1	Metal	Grey	Poor	>9.9	Positive	
7/25	116	Gym	Wall	1	Brick	White	Poor	>9.9	Positive	
7/25	117	Gym	Wall	2	Brick	White	Poor	>9.9	Positive	
7/25	118	Gym	Wall	3	Concrete	White	Poor	>9.9	Positive	
7/25	119	Gym	Wall	4	Brick	White	Poor	>9.9	Positive	
7/25	120	Gym	I-beam	6	Metal	White	Poor	>9.9	Positive	
7/25	121	Gym	Pipe riser	3	Metal	White	Poor	0.6		
7/25	122	Gym	Hand rail	1	Metal	White	Poor	1.9	Positive	
7/25	123	Gym	Stair tread	1	Metal	White	Poor	3.5	Positive	
7/25	124	Gym	Newel post	1	Metal	White	Poor	>9.9	Positive	
7/25	125	Gym	Stringer	1	Metal	White	Poor	>9.9	Positive	
7/25	126	RB12	Door	1	Metal	Beige	Poor	0.2		
7/25	127	RB12	Door case	1	Metal	Beige	Poor	2.3	Positive	
7/25	128	RB12	Wall	1	Brick	White	Poor	>9.9	Positive	
7/25	129	RB12	Wall	2	Brick	White	Poor	0.2		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/25	130	RB12	Wall	4	Brick	White	Poor	>9.9	Positive	
7/25	131	RB12	Radiator	1	Metal	White	Poor	0.2		
7/25	132	RB12	Grate column	2	Concrete	White	Poor	0.0		
7/25	133	RB12	Guard rail	3	Metal	White	Poor	3.9	Positive	
7/25	134	RB12	Found floor	6	Concrete	Grey	Poor	0.5		
7/25	135	Gym	Door	1	Wood	Brown	Poor	0.3		
7/25	136	Office	Door case	1	Wood	Brown	Poor	0.1		
7/25	137	Area #2	Wall	1	Plaster	Blue	Poor	>9.9	Positive	
7/25	138	Area #2	Wall	2	Plaster	Blue	Poor	>9.9	Positive	
7/25	139	Area #2	Wall	3	Plaster	Blue	Poor	>9.9	Positive	
7/25	140	Area #2	Wall	4	Plaster	Blue	Poor	>9.9	Positive	
7/25	141	Area #2	Pipe riser	2	Plaster	White	Poor	>9.9	Positive	
7/25	142	Area #2	Pillar	2	Metal	Blue	Poor	>9.9	Positive	
7/25	143	Area #2	Window case	4	Wood	Red	Poor	7.8	Positive	
7/25	144	Area #2	Window apron	4	Wood	Red	Poor	6.5	Positive	
7/25	145	Gym	Wall	1	Brick	White	Poor	0.3		
7/25	146	Foyer area	Wall	2	Brick	Grey	Poor	-0.0		
7/25	147	Foyer area	Wall	3	Brick	White	Poor	-0.1		
7/25	148	Foyer area	Wall	4	Brick	Grey	Poor	-0.0		
7/26	149	Gym	Greate column	2	Concrete	Grey	Poor	>9.9	Positive	
7/26	150	Foyer	I-beam	6	Metal	White	Poor	>9.9	Positive	
7/26	151	Firing range	Door	1	Metal	Beige	Poor	0.3		
7/26	152	Firing range	Door case	1	Metal	Beige	Poor	3.3	Positive	
7/26	153	Firing range	Wall	1	Brick	White	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	154	Firing range	Wall	2	Brick	Brown	Poor	0.1	Negative	
7/26	155	Firing range	Wall	3	Metal	White	Poor	1.8	Positive	
7/26	156	Firing range	Wall	4	Brick	Brown	Poor	-0.0		
7/26	157	Firing range	Duct	5	Metal	Beige	Poor	0.2		
7/26	158	Firing range	Horizontal pipe	5	Metal	Beige	Poor	-0.2		
7/26	159	Firing range	Partition wall	6	Brick	Beige	Poor	0.2		
7/26	160	Firing range	I-beam	6	Metal	Beige	Poor	-0.1		
7/26	161	Firing range	Beam	5	Metal	Beige	Poor	1.5	Positive	
7/26	162	Firing range	Gate	2	Metal	Grey	Poor	-0.1		
7/26	163	Firing range	Compressor	2	Metal	Green	Poor	0.6		
7/26	164	Firing range	Ceiling	5	Concrete	Beige	Fair	-0.0		
7/26	165	Calibrate						1.8		
7/26	166	Calibrate						1.7	Avg. 1.8	
7/26	167	Calibrate						1.8		
7/26	168	Calibrate						1.7		
7/26	169	Calibrate						1.6	Avg. 1.8	
7/26	170	Calibrate						1.7		
7/26	171	Basement	Wall	1	Plaster	Grey/blue	Poor	>9.9	Positive	
7/26	172	Lobby	Wall	2	Plaster	Grey/blue	Poor	0.1		
7/26	173	Mezzanine Area	Wall	3	Plaster	Grey/blue	Poor	>9.9	Positive	
7/26	174	Mezzanine Area	Wall	4	Plaster	Grey/grey	Poor	-0.0		
7/26	175	Mezzanine Area	Ceiling	5	Plaster	Grey/blue	Poor	>9.9	Positive	
7/26	176	Mezzanine Area	Pipe riser	4	Metal	Grey/blue	Poor	>9.9	Positive	
7/26	177	Mezzanine Area	Horizontal pipe	5	Metal	Grey/blue	Poor	1.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	178	Mezzanine Area	Column	6	Plaster	Grey/grey	Poor	>9.9	Positive	
7/26	179	Mezzanine Area	Baseboard	3	Wood	Grey/grey	Poor	1.5	Positive	
7/26	180	Mezzanine Area	Door	1	Wood	Grey/green	Poor	1.6	Positive	
7/26	181	Mezzanine Area	Door case	1	Wood	Grey/green	Poor	1.5	Positive	
7/26	182	Mezzanine Area	Floor	6	Concrete	Grey/grey	Poor	2.1	Positive	
7/26	183	Mezzanine Area	Hand rail	2	Metal	Grey/grey	Poor	7.8	Positive	
7/26	184	Mezzanine Area	Newel post	2	Metal	Grey/grey	Poor	7.6	Positive	
7/26	185	Mezzanine Area	Stair tread	2	Metal	Grey/grey	Poor	3.3	Positive	
7/26	186	Basement	Stair riser	6	Metal	Grey	Poor	5.5	Positive	
7/26	187	Mezzanine lobby	stringer	6	Metal	Grey	Poor	8.0	Positive	
7/26	188	Mezzanine lobby	Beam	1	Metal	Grey	Poor	>9.9	Positive	
7/26	189	RA1	Door	1	Wood	Brown	Poor	0.1		
7/26	190	RA1	Door case	1	Wood	Grey	Poor	1.3	Positive	
7/26	191	RA1	Wall	1	Plaster	Green	Poor	>9.9	Positive	
7/26	192	RA1	Wall	2	Plaster	Green	Poor	>9.9	Positive	
7/26	193	RA1	Wall	3	Plaster	Green	Poor	>9.9	Positive	
7/26	194	RA1	Wall	4	Plaster	Green	Poor	9.5	Positive	
7/26	195	RA1	Column	6	Plaster	Green	Poor	>9.9	Positive	
7/26	195	RA1	Baseboard	1	Wood	Grey	Poor	-0.1		
7/26	196	RA1	Radiator	3	Metal	Beige	Poor	0.1		
7/26	197	RA1	Window sill	3	Wood	Green	Poor	0.1		
7/26	198	RA1	Window case	3	Wood	Green	Poor	0.0		
7/26	199	RA1	Window apron	3	Wood	Green	Poor	0.0		
7/26	200	RA1	Window sash	3	Wood	Green	Poor	0.2		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	201	RA1	Beam	5	Plaster	Green	Poor	>9.9	Positive	
7/26	202	RA1	Ceiling	5	Plaster	Green	Poor	>9.9	Positive	
7/26	203	Bsmnt, Staircase A	Door	1	Metal	Green	Poor	1.8	Positive	
7/26	204	Bsmnt, Staircase A	Door case	1	Metal	Green	Poor	1.6	Positive	
7/26	205	Bsmnt, Staircase A	Wall	1	Plaster	Green	Poor	0.1		
7/26	206	Bsmnt, Staircase A	Wall	2	Plaster	Grey	Poor	>9.9	Positive	
7/26	207	Bsmnt, Staircase A	Wall	3	Plaster	Green	Poor	>9.9	Positive	
7/26	208	Bsmnt, Staircase A	Wall	4	Plaster	Grey	Poor	>9.9	Positive	
7/26	209	Bsmnt, Staircase A	Radiator cover	2	Metal	Grey	Poor	0.3		
7/26	210	Bsmnt, Staircase A	Radiator	2	Metal	Grey	Poor	1.7	Positive	
7/26	211	Bsmnt, Staircase A	Baseboard	4	Plaster	Grey	Poor	6.6	Positive	
7/26	212	Bsmnt, Staircase A	Ceiling	5	Plaster	Green	Poor	>9.9	Positive	
7/26	213	Bsmnt, Staircase A	Floor	6	Concrete	Grey	Poor	1.0	Positive	
7/26	214	Mezzanine	Wall	1	Brick	White	Poor	3.6	Positive	
7/26	215	Bsmnt, Staircase B	Wall	2	Brick	Grey	Poor	3.9	Positive	
7/26	216	Bsmnt, Staircase B	Wall	3	Brick	White	Poor	2.5	Positive	
7/26	217	Bsmnt, Staircase B	Wall	4	Brick	Grey	Poor	3.9	Positive	
7/26	218	Bsmnt, Staircase B	Hand rail	4	Metal	Grey	Poor	1.6	Positive	
7/26	219	Bsmnt, Staircase B	Stair tread	4	Concrete	Grey	Poor	0		
7/26	220	Bsmnt, Staircase B	Stair riser	4	Concrete	Grey	Poor	0.1		
7/26	221	Bsmnt, Staircase B	Stringer	4	Concrete	Grey	Poor	0.1		
7/26	222	Bsmt, mezzanine staircase B	Floor	6	Concrete	Grey	Poor	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	223	Bsmt, mezzanine staircase B	Radiator cover	3	Metal	Grey	Poor	0.2		
7/26	224	Bsmt, mezzanine staircase B	Radiator	3	Metal	Grey	Poor	0.5		
7/26	225	RC'6	Door	1	Metal	Green	Poor	-0.1		
7/26	226	RC'6	Door case	1	Metal	Green	Poor	0.6		
7/26	227	RC'6	Wall	1	Brick	White	Poor	3.7	Positive	
7/26	228	RC'6	Wall	2	Brick	White	Poor	4.1	Positive	
7/26	229	RC'6	Wall	3	Brick	White	Poor	-0.2		
7/26	230	RC'6	Wall	4	Brick	White	Poor	4.8	Positive	
7/26	231	RC'6	Hand rail	6	Metal	Grey	Poor	-0.1		
7/26	232	RC'6	Newel post	6	Metal	Grey	Poor	1.4	Positive	
7/26	233	RC'6	Stair tread	6	Wood	Grey	Poor	-0.1		
7/26	234	RC'6	Stringer	6	Metal	Grey	Poor	0.2		
7/26	235	RC'6	Locker door	2	Metal	Grey	Poor	0.5		
7/26	236	RC'6	Beam	5	Metal	Grey	Poor	6.4	Positive	
7/26	237	RC'6	Floor	6	Wood	Grey	Poor	0.3		
7/26	238	RC'6	Floor	6	Concrete	Grey	Poor	3.4	Positive	
7/26	239	RC16A	Door	1	Wood	Stained	Poor	-0.1		
7/26	240	RC16A	Door case	1	Wood	Red	Poor	3.9	Positive	
7/26	241	RC16A	Wall	1	Brick	Blue	Poor	>9.9	Positive	
7/26	242	RC16A	Wall	2	Brick	Green	Poor	>9.9	Positive	
7/26	243	RC16A	Wall	3	Concrete	Beige	Poor	2.8	Positive	
7/26	244	RC16A	Wall	4	Brick	Beige	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	245	RC16A	Pipe riser	3	Metal	Blue	Poor	1.8	Positive	
7/26	246	RC16A	Duct	5	Metal	Blue	Poor	0.2		
7/26	247	RC14	Door	1	Metal	Green	Poor	-0.0		
7/26	248	RC14	Door case	1	Metal	Green	Poor	2.4	Positive	
7/26	249	RC14	Wall	1	Brick	Blue	Poor	3.5	Positive	
7/26	250	RC14	Wall	2	Brick	Blue	Poor	3.2	Positive	
7/26	251	RC14	Wall	3	Brick	Blue	Poor	4.1	Positive	
7/26	252	RC14	Wall	4	Brick	Blue	Poor	4.0	Positive	
7/26	253	RC14	Hand rail	6	Metal	Grey	Poor	0.5		
7/26	254	RC14	Newel post	6	Metal	Grey	Poor	0.2		
7/26	255	RC14	Stair tread	6	Wood	Grey	Poor	0.1		
7/26	256	RC14	Stringer	6	Metal	Grey	Poor	0.2		
7/26	257	RC14	Locker door	2	Metal	Blue	Poor	0.4		
7/26	258	RC14	Beam	5	Metal	Grey	Poor	3.6	Positive	
7/26	259	RC14A	Door	1	Wood	Blue	Poor	0.4		
7/26	260	RC14A	Door case	1	Wood	Blue	Poor	0.3		
7/26	261	RC14A	Wall	1	Brick	White	Poor	6.7	Positive	
7/26	262	RC14A	Wall	2	Brick	White	Poor	>9.9	Positive	
7/26	263	RC14A	Wall	3	Concrete	White	Poor	4.8	Positive	
7/26	264	RC14A	Wall	4	Brick	White	Poor	>9.9	Positive	
7/26	265	RC14A	Pipe riser	3	Metal	White	Poor	0.3		
7/26	266	RC14A	Duct	5	Metal	White	Poor	0.1		
7/26	267	R1-15	Door	1	Metal	Green	Poor	0.2		
7/26	268	R1-15	Door case	1	Metal	Green	Poor	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	269	R1-15	Wall	1	Plaster	Beige	Poor	-0.1		
7/26	270	R1-15	Wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/26	271	R1-15	Wall	3	Plaster	Beige	Poor	4.6	Positive	
7/26	272	R1-15	Wall	4	Plaster	Beige	Poor	3.4	Positive	
7/26	273	R1-15	Baseboard	2	Wood	Grey	Poor	-0.1		
7/26	274	R1-15	Chair rail	4	Wood	Beige	Poor	0.6		
7/26	275	R1-15	Wall molding	3	Wood	Beige	Poor	0.5		
7/26	276	R1-15	Radiator cover	2	Metal	White	Poor	9.1	Positive	
7/26	277	R1-15	Window sill	3	Wood	White	Poor	0.3		
7/26	278	R1-15	Window case	3	Wood	White	Poor	0.3		
7/26	279	R1-15	Window apron	3	Wood	White	Poor	0.3		
7/26	280	R1-15	Partition wall		Wood	Beige	Poor	-0.0		
7/26	281	R1-15	Ceiling	5	Plaster	Blue	Poor	5.3	Positive	
7/26	282	R1-15-A	Locker door	2	Metal	Grey	Poor	1.7	Positive	
7/26	283	R1-15-A	Door	1	Wood	Grey	Poor	3.4	Positive	
7/26	284	R1-15-A	Door case	1	Wood	Grey	Poor	0.4		
7/26	285	R1-15-A	Wall	1	Plaster	Blue	Poor	4.5	Positive	
7/26	286	R1-15-A	Wall	2	Plaster	Blue	Poor	3.8	Positive	
7/26	287	R1-15-A	Wall	3	Plaster	Blue	Poor	5.4	Positive	
7/26	288	R1-15-A	Wall	4	Plaster	Blue	Poor	1.2	Positive	
7/26	289	R1-15-A	Baseboard	2	Wood	Blue	Poor	0.8		
7/26	290	R1-15-A	Chair rail	3	Wood	Blue	Poor	2.5	Positive	
7/26	291	R1-15-A	Ceiling	5	Plaster	Blue	Poor	3.5	Positive	
7/26	292	R1-15-A	Horizontal pipe	5	Metal	Blue	Poor	0.5		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	293	RM1-15	Door	1	Wood	Green	Poor	1.5	Positive	
7/26	294	RM1-15	Door case	1	Wood	Green	Poor	2.1	Positive	
7/26	295	RM1-15	Wall	1	Concrete	White	Poor	2.4	Positive	
7/26	296	RM1-15	Wall	2	Concrete	White	Poor	2.9	Positive	
7/26	297	RM1-15	Wall	3	Concrete	White	Poor	0.2		
7/26	298	RM1-15	Wall	4	Concrete	Peach	Poor	3.3	Positive	
7/26	299	RM1-15	Baseboard	3	Wood	White	Poor	2.5	Positive	
7/26	300	RM1-15	Chair rail	2	Wood	White	Poor	2.2	Positive	
7/26	301	RM1-15	Radiator cover	2	Metal	White	Poor	0.3		
7/26	302	RM1-15	Radiator	2	Metal	White	Poor	0.1		
7/26	303	RM1-15	Window sill	3	Wood	White	Poor	2.2	Positive	
7/26	304	RM1-15	Window case	3	Wood	White	Poor	1.9	Positive	
7/26	305	RM1-15	Window sash	3	Wood	White	Poor	3.1	Positive	
7/26	306	RM1-15	Ceiling	5	Plaster	White	Poor	0.5		
7/26	307	RM1-15	Door	1	Wood	Beige	Poor	1.7	Positive	
7/26	308	RM1-15/Bath	Door case	1	Wood	Beige	Poor	5.2	Positive	
7/26	309	RM1-15/Bath	Wall	1	Plaster	Beige	Poor	4.9	Positive	
7/26	310	RM1-15/Bath	Wall	2	Plaster	Beige	Poor	4.5	Positive	
7/26	311	RM1-15/Bath	Wall	3	Plaster	Beige	Poor	4.7	Positive	
7/26	312	RM1-15/Bath	Wall	4	Plaster	Beige	Poor	0.4		
7/26	313	RM1-15/Bath	Radiator	1	Metal	Beige	Poor	0.7		
7/26	314	RM1-15/Bath	Cabinet door	3	Metal	Beige	Poor	7.3	Positive	
7/26	315	RM1-15/Bath	Horizontal pipe	5	Metal	Beige	Poor	0.5		
7/26	316	RM1-15/Bath	Window sill	4	Wood	Beige	Poor	3.5	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	317	RM1-15/Bath	Window case	4	Wood	Beige	Poor	2.8	Positive	
7/26	318	RM1-15/Bath	Window frame	4	Wood	Beige	Poor	2.8	Positive	
7/26	319	RM1-15/Bath	Ceiling	5	Plaster	Beige	Poor	3.8	Positive	
7/26	320	R1-12	Door	1	Metal	Green	Poor	0.2		
7/26	321	R1-12	Door case	1	Metal	Green	Poor	0.1		
7/26	322	R1-12	Wall	1	Plaster	Beige	Poor	5.0	Positive	
7/26	323	R1-12	Wall	2	Plaster	Beige	Poor	4.9	Positive	
7/26	324	R1-12	Wall	3	Plaster	Beige	Poor	6.3	Positive	
7/26	325	R1-12	Wall	4	Plaster	Beige	Poor	5.0	Positive	
7/26	326	R1-12	Baseboard	4	Wood	Grey	Poor	0.6		
7/26	327	R1-12	Wall molding	2	Wood	Grey	Poor	0.7		
7/26	328	R1-12	Radiator cover	2	Metal	Grey	Poor	1.6	Positive	
7/26	329	R1-12	Radiator	2	Metal	Black	Poor	0.6		
7/26	330	R1-12	Window sill	3	Wood	Grey	Poor	1.0	Positive	
7/26	331	R1-12	Window case	3	Wood	Grey	Poor	0.7		
7/26	332	R1-12	Window apron	3	Wood	Grey	Poor	0.2		
7/26	333	R1-12A	Door	1	Wood	Grey	Poor	2.3	Positive	
7/26	334	R1-12A	Door case	1	Wood	Grey	Poor	2.1	Positive	
7/26	335	R1-12A	Wall	1	Plaster	Beige	Poor	6.8	Positive	
7/26	336	R1-12A	Wall	2	Plaster	Beige	Poor	8.3	Positive	
7/26	337	R1-12A	Wall	3	Plaster	Beige	Poor	8.4	Positive	
7/26	338	R1-12A	Wall	4	Plaster	Beige	Poor	5.8	Positive	
7/26	339	R1-12A	Baseboard	1	Wood	Beige	Poor	7.3	Positive	
7/26	340	R1-12A	Pipe riser	2	Metal	Beige	Poor	7.9	Positive	

Tab.. 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	341	R1-12A	Window case	4	Wood	Beige	Poor	0.6		
7/26	342	R1-12A	Window sash	4	Wood	Beige	Poor	2.5	Positive	
7/26	343	R1-12A	Ceiling	5	Plaster	Beige	Poor	3.2	Positive	
7/26	344	R1-12A	Shelf support	2	Wood	Beige	Poor	0.0		
7/26	345	Calibrate						1.9		
7/26	346	Calibrate						1.8	Avg. 1.9	
7/26	347	Calibrate						1.9		
7/26	348	R1-1	Door	1	Metal	Green	Poor	0.2		
7/26	349	R1-1	Door case	1	Metal	Green	Poor	-0.0		
7/26	350	R1-1	Wall	1	Plaster	Beige	Poor	1.0	Positive	
7/26	351	R1-1	Wall	2	Plaster	Beige	Poor	3.4	Positive	
7/26	352	R1-1	Wall	3	Plaster	Beige	Poor	3.4	Positive	
7/26	353	R1-1	Wall	4	Plaster	Beige	Poor	4.3	Positive	
7/26	354	R1-1	Baseboard	2	Wood	Black	Poor	0.5		
7/26	355	R1-1	Wall molding	3	Wood	Beige	Poor	1.0	Positive	
7/26	356	R1-1	Radiator	2	Metal	Beige	Poor	1.5		
7/26	357	R1-1	Window sill	3	Wood	Beige	Poor	0.2		
7/26	358	R1-1	Window case	3	Wood	Beige	Poor	-0.1		
7/26	359	R1-1	Window sash	3	Wood	Beige	Poor	0.2		
7/26	360	R1-1	Ceiling	5	Plaster	Beige	Poor	0.2		
7/26	361	R1-1A	Door	1	Wood	Varnish	Poor	0.1		
7/26	362	R1-1A	Door case	1	Wood	Varnish	Poor	1.0	Positive	
7/26	363	R1-1A	Wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/26	364	R1-1A	Wall	2	Plaster	Beige	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	365	R1-1A	Wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/26	366	R1-1A	Wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/26	367	R1-1A	Baseboard	3	Wood	Black	Poor	0.3		
7/26	368	R1-1A	Pipe riser	1	Metal	Beige	Poor	3.6	Positive	
7/26	369	R1-1A	Ceiling	5	Plaster	Beige	Poor	5.1	Positive	
7/26	370	RM1-1	Door	1	Wood	White	Poor	-0.1		
7/26	371	RM1-1	Door case	1	Wood	Green	Poor	-0.1		
7/26	372	RM1-1	Wall	1	Plaster	Beige	Poor	9.5	Positive	
7/26	373	RM1-1	Wall	2	Plaster	Beige	Poor	8.9	Positive	
7/26	374	RM1-1	Wall	3	Plaster	Beige	Poor	8.0	Positive	
7/26	375	RM1-1	Wall	4	Plaster	Beige	Poor	6.8	Positive	
7/26	376	RM1-1	Baseboard	4	Wood	Beige	Poor	1.4	Positive	
7/26	377	RM1-1	Window sill	3	Wood	Green	Poor	0.2		
7/26	378	RM1-1	Window case	3	Wood	Green	Poor	1.0	Positive	
7/26	379	RM1-1	Window sash	3	Wood	Varnish	Poor	5.2	Positive	
7/26	380	RM1-1	Radiator	2	Metal	Green	Poor	0.5		
7/26	381	RM1-1	Ceiling	5	Plaster	Beige	Poor	3.7	Positive	
7/26	382	RM1-1	Pipe riser	1	Metal	Beige	Poor	0.7		
7/26	383	RM1-1	Door	1	Wood	White	Poor	5.9	Positive	
7/26	384	RM1-1/Bath	Door case	1	Wood	Green	Poor	5.2	Positive	
7/26	385	RM1-1/Bath	Wall	1	Plaster	Beige	Poor	9.4	Positive	
7/26	386	RM1-1/Bath	Wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/26	387	RM1-1/Bath	Wall	3	Plaster	Beige	Poor	9.1	Positive	
7/26	388	RM1-1/Bath	Wall	4	Plaster	Beige	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	389	RM1-1/Bath	Radiator	1	Metal	So;ver	Poor	-0.0		
7/26	390	RM1-1/Bath	Cabinet door	3	Metal	Beige	Poor	>9.9	Positive	
7/26	391	RM1-1/Bath	Pipe riser	4	Metal	Black	Poor	1.4	Positive	
7/26	392	RM1-1/Bath	Ceiling	5	Plaster	Beige	Poor	2.2	Positive	
7/26	393	R1-4	Door	1	Metal	Green	Poor	-0.0		
7/26	394	R1-4	Door case	1	Metal	Green	Poor	-0.1		
7/26	395	R1-4	Wall	1	Plaster	Green	Poor	1.6	Positive	
7/26	396	R1-4	Wall	2	Plaster	Beige	Poor	5.0	Positive	
7/26	397	R1-4	Wall	3	Plaster	Beige	Poor	4.6	Positive	
7/26	398	R1-4	Wall	4	Plaster	Beige	Poor	4.1	Positive	
7/26	399	R1-4	Wall	2	Plaster	White	Poor	4.1	Positive	
7/26	400	R1-4	Radiator cover	2	Metal	Silver	Poor	0.4		
7/26	401	R1-4	Radiator	2	Metal	Silver	Poor	0.5		
7/26	402	R1-4	Window sill	3	mw	Black	Poor	2.1	Positive	
7/26	403	R1-4	Window case	3	Wood	Black	Poor	0.1		
7/26	404	R1-4	Window apron	3	Wood	Black	Poor	1.7	Positive	
7/26	405	R1-4	Baseboard	2	Wood	Black	Poor	0.4		
7/26	406	R1-4	Ceiling	5	Plaster	Beige	Poor	0.0		
7/26	407	R1-4B	Door	1	Wood	White	Poor	1.0	Positive	
7/26	408	R1-4B	Door case	1	Wood	White	Poor	1.0	Positive	
7/26	409	R1-4B	Wall	1	Plaster	White	Poor	1.0	Positive	
7/26	410	R1-4B	Wall	2	Plaster	White	Poor	0.3		
7/26	411	R1-4B	Wall	3	Plaster	White	Poor	1.6	Positive	
7/26	412	R1-4B	Wall	4	Plaster	White	Poor	1.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	413	R1-4B	Baseboard	3	Wood	White	Poor	1.0	Positive	
7/26	414	R1-4B	Window sill	2	Wood	White	Poor	0.5		
7/26	415	R1-4B	Window case	2	Wood	White	Poor	0.5		
7/26	416	R1-4B	Window sash	2	Wood	White	Poor	0.5		
7/26	417	R1-4B	Ceiling	5	Plaster	White	Poor	0.6		
7/26	418	R1-4A	Door	1	Wood	Brown	Poor	1.3	Positive	
7/26	419	R1-4A	Door case	1	Wood	Green	Poor	1.0	Positive	
7/26	420	R1-4A	Wall	1	Plaster	Red	Poor	1.6	Positive	
7/26	421	R1-4A	Wall	2	Plaster	Red	Poor	2.0	Positive	
7/26	422	R1-4A	Wall	3	Plaster	Red	Poor	2.1	Positive	
7/26	423	R1-4A	Wall	4	Plaster	Red	Poor	0.1		
7/26	424	R1-4A	Baseboard	3	Wood	Red	Poor	2.0	Positive	
7/26	425	R1-4A	Chair rail	2	Wood	Red	Poor	0.6		
7/26	426	R1-4A	Window case	4	Wood	Brown	Poor	0.6		
7/26	427	R1-4A	Window sash	4	Wood	Brown	Poor	0.6		
7/26	428	R1-4A	Horizontal pipe	5	Metal	White	Poor	1.5	Positive	
7/26	429	R1-4A	Ceiling	5	Plaster	White	Poor	0.4		
7/26	430	R1-9	Door	1	Wood	Beige	Poor	0.2		
7/26	431	Ladies room	Door case	1	Wood	Green	Poor	0.0		
7/26	432	Ladies room	Wall	1	Concrete	Beige	Poor	-0.0		
7/26	433	Ladies room	Wall	2	Concrete	Beige	Poor	0.3		
7/26	434	Ladies room	Wall	3	Concrete	Beige	Poor	0.0		
7/26	435	Ladies room	Wall	4	Concrete	Beige	Poor	0.0		
7/26	436	Ladies room	Radiator	3	Metal	Beige	Poor	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/26	437	Ladies room	Door case	3	Metal	Beige	Poor	-0.0		
7/26	438	Ladies room	Radiator cover	1	Metal	Beige	Poor	-0.1		
7/26	439	Ladies room	Pipe riser	3	Metal	Beige	Poor	6.8	Positive	
7/26	440	Ladies room	Wall	3	Brick	Beige	Poor	-0.0		
7/26	441	Calibrate						1.9		
7/26	442	Calibrate						1.8	Avg 1.9	
7/26	443	Calibrate						1.8		
7/27	444	Calibrate						1.8		
7/27	445	Calibrate						1.8		
7/27	446	Calibrate						1.8		
7/27	447	East tower office	Door	1	Wood	Brown	Poor	0.1		
7/27	448	East tower office	Door case	1	Wood	Brown	Poor	0.1		
7/27	449	East tower office	Upper wall	1	Plaster	Lylac	Poor	>9.9	Positive	
7/27	450	East tower office	Upper wall	2	Plaster	Lylac	Poor	>9.9	Positive	
7/27	451	East tower office	Upper wall	3	Plaster	Lylac	Poor	>9.9	Positive	
7/27	452	East tower office	Upper wall	4	Plaster	Lylac	Poor	>9.9	Positive	
7/27	453	East tower office	Lower wall	1	Plaster	Brown	Poor	>9.9	Positive	
7/27	454	East tower office	Lower wall	2	Plaster	Brown	Poor	>9.9	Positive	
7/27	455	East tower office	Lower wall	3	Plaster	Brown	Poor	>9.9	Positive	
7/27	456	East tower office	Lower wall	4	Plaster	Brown	Poor	>9.9	Positive	
7/27	457	East tower office	Baseboard	3	Wood	Brown	Poor	3.2	Positive	
7/27	458	East tower office	Chair rail	2	Wood	Brown	Poor	0.1		
7/27	459	East tower office	Radiator cover	2	Metal	Brown	Poor	>9.9	Positive	
7/27	460	East tower office	Radiator	2	Metal	Brown	Poor	0.2		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	461	East tower office	Horizontal pipe	3	Metal	Brown	Poor	0.2		
7/27	462	East tower office	Window sill	3	Wood	Brown	Poor	0.3		
7/27	463	East tower office	Window case	3	Wood	Brown	Poor	0.2		
7/27	464	East tower office	Window apron	3	Wood	Brown	Poor	0.0		
7/27	465	East tower office	Ceiling	5	Plaster	White	Poor	5.7	Positive	
7/27	466	Corridor to east tower office	Door	1	Wood	Varnish	Poor	0.0		
7/27	467	Corridor to east tower office	Door case	1	Wood	Blue	Poor	0.6		
7/27	468	Corridor to east tower office	Wall	1	Brick	Blue	Poor	-0.1		
7/27	469	Corridor to east tower office	Wall	2	Brick	White	Poor	-0.0		
7/27	470	Corridor to east tower office	Wall	3	Brick	Blue	Poor	0.0		
7/27	471	Corridor to east tower office	Wall	4	Brick	Blue	Poor	-0.0		
7/27	472	Corridor to east tower office	Pipe riser	2	Metal	Blue	Poor	0.6		
7/27	473	Corridor to east tower office	Shelf	3	Wood	Blue	Poor	3.8	Positive	
7/27	474	Corridor to east tower office	Shelf support	2	Wood	Blue	Poor	3.8	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	475	Corridor to east tower office	Window sill	4	Wood	Black	Poor	0.4		
7/27	476	Corridor to east tower office	Window case	4	Wood	Black	Poor	-0.1		
7/27	477	Corridor to east tower office	Window apron	4	Wood	Black	Poor	0.2		
7/27	478	Corridor to east tower office	Wall	2	Plaster	Green	Poor	>9.9	Positive	
7/27	479	Corridor to east tower office	Wall	3	Plaster	Green	Poor	>9.9	Positive	
7/27	480	Corridor to east tower office	Wall	4	Plaster	Green	Poor	>9.9	Positive	
7/27	481	Corridor to east tower office	Baseboard	4	Wood	Grey	Poor	4.2	Positive	
7/27	482	Corridor to east tower office	Ceiling	5	Plaster	Grey	Poor	>9.9	Positive	
7/27	483	West tower office	Door	1	Wood	Black	Poor	0.2		
7/27	484	West tower office	Door case	1	Wood	Black	Poor	5.2	Positive	
7/27	485	West tower office	Wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/27	486	West tower office	Wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/27	487	West tower office	Wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	488	West tower office	Wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/27	489	West tower office	Baseboard	2	Wood	Black	Poor	2.4	Positive	
7/27	490	West tower office	Radiator cover	4	Wood	Black	Poor	0.3		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	491	West tower office	Radiator	1	Metal	Silver	Poor	2.0	Positive	
7/27	492	West tower office	Window sill	1	Wood	Beige	Poor	3.1	Positive	
7/27	493	West tower office	Window case	1	Wood	Beige	Poor	2.1	Positive	
7/27	494	West tower office	Window sash	1	Wood	Beige	Poor	2.6	Positive	
7/27	495	West tower office	Window apron	1	Wood	Beige	Poor	2.7	Positive	
7/27	496	West tower office	Wall molding	1	Wood	Beige	Poor	>9.9	Positive	
7/27	497	Office	Door	1	Wood	Grey	Poor	>9.9	Positive	
7/27	498	Office/Bath	Door case	1	Wood	Black	Poor	>9.9	Positive	
7/27	499	Main lobby	Wall	1	Concrete	Beige	Fair	>9.9	Positive	
7/27	500	Main lobby	Wall	2	Concrete	Beige	Fair	>9.9	Positive	
7/27	501	Main lobby	Wall	3	Concrete	Beige	Fair	>9.9	Positive	
7/27	502	Main lobby	Wall	4	Concrete	Beige	Fair	>9.9	Positive	
7/27	503	Main lobby	Column	6	Concrete	Beige	Fair	>9.9	Positive	
7/27	504	Main lobby	Door	1	Metal	Grey	Fair	0.2		
7/27	505	Main lobby	Door case	1	Metal	Grey	Fair	-0.1		
7/27	506	Main lobby	Baseboard	3	Concrete	Grey	Fair	0.7		
7/27	507	Main lobby	Radiator cover	3	Metal	Black	Fair	-0.1		
7/27	508	Main lobby	Radiator	3	Metal	Silver	Fair	0.6		
7/27	509	Main lobby	Window case	3	Wood	Black	Fair	0.0		
7/27	510	Main lobby	Window sash	3	Wood	Black	Fair	-0.1		
7/27	511	Main lobby	Gate	4	Metal	Grey	Fair	>9.9	Positive	
7/27	512	Main lobby	Ceiling	5	Concrete	Beige	Fair	0.1		
7/27	513	Lobby	Column	6	Concrete	White	Fair	>9.9	Positive	
7/27	514	2nd floor corridor	Door	3	Wood	Stained	Fair	-0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	515	2nd floor corridor	Door case	3	Wood	Stained	Fair	0.2		
7/27	516	2nd floor corridor	Gate	1	Metal	Grey	Poor	0.4		
7/27	517	2nd floor corridor	Gate case	1	Metal	Grey	Poor	-0.1		
7/27	518	2nd floor corridor	Upper wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/27	519	2nd floor corridor	Upper wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/27	520	2nd floor corridor	Lower wall	2	Plaster	Grey	Poor	>9.9	Positive	
7/27	521	2nd floor corridor	Lower wall	4	Plaster	Grey	Poor	>9.9	Positive	
7/27	522	2nd floor corridor	Upper wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/27	523	2nd floor corridor	Upper wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	524	2nd floor corridor	Lower wall	1	Plaster	Grey	Poor	>9.9	Positive	
7/27	525	2nd floor corridor	Lower wall	3	Plaster	Grey	Poor	>9.9	Positive	
7/27	526	2nd floor corridor	Ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/27	527	2nd floor corridor	Radiator cover	2	Metal	Grey	Poor	0.3		
7/27	528	2nd floor corridor	Radiator	2	Metal	Silver	Poor	0.3		
7/27	529	2nd floor corridor	Pipe riser	2	Metal	Silver	Poor	0.2		
7/27	530	2nd floor corridor	Baseboard	4	Concrete	Grey	Poor	1.7	Positive	
7/27	531	East officers club	Door	1	Wood	Stained	Fair	-0.2		
7/27	532	East officers club	Door case	1	Wood	Stained	Fair	-0.1		
7/27	533	East officers club	Upper wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/27	534	East officers club	Upper wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/27	535	East officers club	Upper wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	536	East officers club	Upper wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/27	537	East officers club	Lower wall	1	Wood	Stained	Poor	-0.1		
7/27	538	East officers club	Lower wall	2	Wood	Stained	Poor	-0.1		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	539	East officers club	Lower wall	3	Wood	Stained	Poor	0.0		
7/27	540	East officers club	Lower wall	4	Wood	Stained	Poor	-0.0		
7/27	541	East officers club	Column	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	542	East officers club	Wall molding	1	Wood	Beige	Poor	9.3	Positive	
7/27	543	East officers club	Ceiling	5	Plaster	White	Poor	>9.9	Positive	
7/27	544	East officers club	Beam ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/27	545	2nd fl., office 2-2-6	Door	1	Wood	Stained	Poor	-0.1		
7/27	546	2nd fl., office 2-2-6	Door case	1	Wood	Stained	Poor	-0.0		
7/27	547	2nd fl., office 2-2-6	Wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/27	548	2nd fl., office 2-2-6	Wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/27	549	2nd fl., office 2-2-6	Wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	550	2nd fl., office 2-2-6	Wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/27	551	2nd fl., office 2-2-6	Baseboard	3	Wood	Beige	Poor	0.2		
7/27	552	2nd fl., office 2-2-6	Radiator cover	3	Metal	Beige	Poor	0.2		
7/27	553	2nd fl., office 2-2-6	Radiator	3	Metal	Beige	Poor	0.0		
7/27	554	2nd fl., office 2-2-6	Window sill	3	Wood	Beige	Poor	0.7		
7/27	555	2nd fl., office 2-2-6	Window case	3	Wood	Beige	Poor	0.6		
7/27	556	2nd fl., office 2-2-6	Window apron	3	Wood	Beige	Poor	-0.1		
7/27	557	2nd fl., office 2-2-6	Ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/27	558	2nd fl., office 2-2-6	Door	1	Plaster	Green	Poor	>9.9	Positive	
7/27	559	2nd fl., bath 2-2-6	Door case	1	Wood	Green	Poor	>9.9	Positive	
7/27	560	2nd fl., bath 2-2-6	Wall	1	Wood	Green	Poor	>9.9	Positive	
7/27	561	2nd fl., bath 2-2-6	Wall	2	Plaster	Green	Poor	>9.9	Positive	
7/27	562	2nd fl., bath 2-2-6	Wall	3	Plaster	Green	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	563	2nd fl., bath 2-2-6	Wall	4	Plaster	Green	Poor	>9.9	Positive	
7/27	564	2nd fl., bath 2-2-6	Window case	4	Wood	Green	Poor	>9.9	Positive	
7/27	565	2nd fl., bath 2-2-6	Window sash	4	Wood	Green	Poor	>9.9	Positive	
7/27	566	2nd fl., closet 2-2-6	Door	1	Wood	Grey	Poor	>9.9	Positive	
7/27	567	2nd fl., closet 2-2-6	Door case	1	Wood	Grey	Poor	>9.9	Positive	
7/27	568	2nd fl., closet 2-2-6	Wall	1	Plaster	Grey	Poor	>9.9	Positive	
7/27	569	2nd fl., closet 2-2-6	Wall	2	Plaster	Grey	Poor	>9.9	Positive	
7/27	570	2nd fl., closet 2-2-6	Wall	3	Plaster	Grey	Poor	>9.9	Positive	
7/27	571	2nd fl., closet 2-2-6	Wall	4	Plaster	Grey	Poor	>9.9	Positive	
7/27	572	2nd fl., closet 2-2-6	Pipe riser	3	Metal	Grey	Poor	>9.9	Positive	
7/27	573	2nd fl., closet 2-2-6	Shelf	3	Wood	Grey	Poor	>9.9	Positive	
7/27	574	2nd fl., closet 2-2-6	Shelf support	3	Wood	Grey	Poor	>9.9	Positive	
7/27	575	2-2-5	Door	1	Wood	Stained	Poor	-0.2		
7/27	576	2-2-5	Door case	1	Wood	Black	Poor	1.0	Positive	
7/27	577	2-2-5	Baseboard	3	Wood	Black	Poor	-0.1		
7/27	578	2-2-5	Radiator	3	Metal	Black	Poor	0.4		
7/27	579	2-2-5	Window sill	3	Wood	Black	Poor	0.3		
7/27	580	2-2-5	Window case	3	Wood	Black	Poor	0.1		
7/27	581	2-2-5	Window apron	3	Wood	Black	Poor	0.4		
7/27	582	2-2-5	Wall	4	Plaster	Beige	Poor	>9.9	Positive	
7/27	583	2-2-5	Pipe riser	3	Metal	Black	Poor	1.5	Positive	
7/27	584	2-2-5	Molding ceiling	5	Wood	Beige	Poor	0.1		
7/27	585	2-2-5	Ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/27	586	2nd fl., corridor	Floor	6	Concrete	Grey	Poor	1.5	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	587	West officers club	Door case	1	Wood	Black	Poor	0.1		
7/27	588	West officers club	Wall	1	Plaster	Green	Poor	>9.9	Positive	
7/27	589	West officers club	Wall	2	Plaster	Green	Poor	>9.9	Positive	
7/27	590	West officers club	Wall	3	Plaster	Green	Poor	>9.9	Positive	
7/27	591	West officers club	Wall	4	Plaster	Green	Poor	>9.9	Positive	
7/27	592	West officers club	Wall molding	1	Wood	White	Poor	>9.9	Positive	
7/27	593	West officers club	Fire place	2	Brick	Beige	Fair	-0.0		
7/27	594	West officers club	Ceiling	5	Plaster	White	Fair	>9.9	Positive	
7/27	595	West officers club	Door	1	Wood	White	Fair	>9.9	Positive	
7/27	596	East stairs to 3rd fl.	Hand rail	1	Metal	Green/black	Poor	>9.9	Positive	
7/27	597	East stairs to 3rd fl.	Newel post	1	Metal	Green/black	Poor	>9.9	Positive	
7/27	598	East stairs to 3rd fl.	Ballust	1	Metal	Green/black	Poor	>9.9	Positive	
7/27	599	East stairs to 3rd fl.	Wall	1	Plaster	Beige	Poor	>9.9	Positive	
7/27	600	East stairs to 3rd fl.	Wall	2	Plaster	Beige	Poor	>9.9	Positive	
7/27	601	East stairs to 3rd fl.	Wall	3	Plaster	Beige	Poor	>9.9	Positive	
7/27	602	East stairs to 3rd fl.	Wall	4	Plaster	Beige	Poor	5.9	Positive	
7/27	603	East stairs to 3rd fl.	Ceiling	5	Plaster	Grey	Poor	>9.9	Positive	
7/27	604	East stairs to 3rd fl.	Baseboard	2	Wood	Beige	Poor	>9.9	Positive	
7/27	605	East stairs to 3rd fl.	Door	4	Metal	Beige	Poor	>9.9	Positive	
7/27	606	East stairs to 3rd fl.	Door case	4	Metal	Beige	Poor	>9.9	Positive	
7/27	607	3rd fl., officers lounge	Door case	1	Wood	Blue	Poor	>9.9	Positive	
7/27	608	3rd fl., officers lounge	Wall	1	Plaster	Blue	Poor	>9.9	Positive	
7/27	609	3rd fl., officers lounge	Wall	2	Plaster	Blue	Poor	>9.9	Positive	
7/27	610	3rd fl., officers lounge	Wall	3	Plaster	Blue	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	611	3rd fl., officers lounge	Wall	4	Plaster	Blue	Poor	>9.9	Positive	
7/27	612	3rd fl., officers lounge	Baseboard	2	Wood	Black	Poor	>9.9	Positive	
7/27	613	3rd fl., officers lounge	Radiator	4	Metal	Blue	Poor	1.9	Positive	
7/27	614	3rd fl., officers lounge	Window sill	4	Wood	Blue	Poor	>9.9	Positive	
7/27	615	3rd fl., officers lounge	Window apron	4	Wood	Blue	Poor	>9.9	Positive	
7/27	616	3rd fl., officers lounge	Ceiling	5	Plaster	Blue/white	Poor	>9.9	Positive	
7/27	617	3rd fl., officers lounge	Pipe riser	4	Metal	Blue/blue	Poor	>9.9	Positive	
7/27	618	3rd fl., officers lounge	Bar	4	Wood	Varnish	Poor	-0.1		
7/27	619	3rd fl., officers lounge	Wall	1	Plaster	Dark green	Poor	>9.9	Positive	
7/27	620	West stairs to 3rd fl.	Wall	2	Plaster	Dark green	Poor	>9.9	Positive	
7/27	621	West stairs to 3rd fl.	Wall	3	Plaster	Dark green	Poor	>9.9	Positive	
7/27	622	West stairs to 3rd fl.	Wall	4	Plaster	Dark green	Poor	>9.9	Positive	
7/27	623	West stairs to 3rd fl.	Electrical panel	1	Wood	Dark green	Poor	>9.9	Positive	
7/27	624	West stairs to 3rd fl.	Ceiling	5	Plaster	Dark green	Poor	8.3	Positive	
7/27	625	West stairs to 3rd fl.	Baseboard	3	Wood	Dark green	Poor	>9.9	Positive	
7/27	626	West stairs to 3rd fl.	Hand rail	1	Metal	Dark green	Poor	8.0	Positive	
7/27	627	West stairs to 3rd fl.	Newel post	1	Metal	Dark green	Poor	6.3	Positive	
7/27	628	West stairs to 3rd fl.	Baluster	1	Metal	Dark green	Poor	>9.9	Positive	
7/27	629	West Turret	Wall	1	Plaster	Brown	Poor	>9.9	Positive	
7/27	630	West Turret	Wall	2	Plaster	Brown	Poor	>9.9	Positive	
7/27	631	West Turret	Wall	3	Plaster	Brown	Poor	>9.9	Positive	
7/27	632	West Turret	Wall	4	Plaster	Brown	Poor	>9.9	Positive	
7/27	633	West Turret	Ceiling	5	Plaster	Brown	Poor	>9.9	Positive	
7/27	634	West Turret	Pipe riser	4	Metal	Brown	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	635	West Turret	Radiator	4	Metal	Silver	Poor	6.4	Positive	
7/27	636	West Turret	Hand rail	1	Metal	Grey	Poor	>9.9	Positive	
7/27	637	West Turret	Stair tread	1	Metal	Grey	Poor	>9.9	Positive	
7/27	638	West Turret	Stair riser	1	Metal	Grey	Poor	>9.9	Positive	
7/27	639	West Turret	Stringer	1	Metal	Grey	Poor	>9.9	Positive	
7/27	640	Calibrate						1.8		
7/27	641	Calibrate						1.7	Avg. 1.8	
7/27	642	Calibrate						1.8		
7/27	643	East 2, tower apt. living room	Door	1	Wood	Stained	Fair	-0.0		
7/27	644	East 2, tower apt. living room	Door case	1	Wood	Stained	Fair	0.1		
7/27	645	East 2, tower apt. living room	Wall	1	Plaster	Yellow	Poor	>9.9	Positive	
7/27	646	East 2, tower apt. living room	Wall	2	Plaster	Yellow	Poor	1.7	Positive	
7/27	647	East 2, tower apt. living room	Wall	3	Plaster	Yellow	Poor	3.9	Positive	
7/27	648	East 2, tower apt. living room	Wall	4	Plaster	Yellow	Poor	>9.9	Positive	
7/27	649	East 2, tower apt. living room	Baseboard	1	Wood	Grey	Poor	-0.0		
7/27	650	East 2, tower apt. living room	Radiator	3	Metal	Silver	Poor	1.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	651	East 2, tower apt. living room	Window sill	4	Wood	Black	Poor	0.2		
7/27	652	East 2, tower apt. living room	Wall molding	2	Wood	Yellow	Poor	>9.9	Positive	
7/27	653	East 2, tower apt. living room	Shelf	4	Wood	Blue	Poor	1.3	Positive	
7/27	654	East 2, tower apt. living room	Shelf support	4	Wood	Blue	Poor	0.4		
7/27	655	East 2, tower apt. living room	Pipe riser	3	Metal	Silver	Poor	2.5	Positive	
7/27	656	Office	Door	1	Wood	Grey	Poor	>9.9	Positive	
7/27	657	Office	Door case	1	Wood	Grey	Poor	>9.9	Positive	
7/27	658	Office	Wall	1	Plaster	Grey	Poor	>9.9	Positive	
7/27	659	Office	Wall	2	Plaster	Grey	Poor	>9.9	Positive	
7/27	660	Office	Wall	3	Plaster	Grey	Poor	>9.9	Positive	
7/27	661	Office	Wall	4	Plaster	Grey	Poor	>9.9	Positive	
7/27	662	Office	Baseboard	3	Wood	Grey	Poor	>9.9	Positive	
7/27	663	Office	Radiator	4	Metal	Silver	Poor	>9.9	Positive	
7/27	664	Office	Wall	4	Brick	Grey	Poor	-0.0		
7/27	665	Office	Ceiling	5	Plaster	Grey	Poor	>9.9	Positive	
7/27	666	East Turret	living room ceiling	5	Plaster	White	Poor	>9.9	Positive	
7/27	667	East Turret	Wall	1	Plaster	Blue	Poor	>9.9	Positive	
7/27	668	East Turret	Wall	3	Plaster	Blue	Poor	>9.9	Positive	
7/27	669	East Turret	Wall	3	Plaster	Grey	Poor	>9.9	Positive	

Tab. .
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	670	East Turret	Pipe riser	3	Metal	Grey	Poor	2.0	Positive	
7/27	671	East Turret	Window sill	3	Wood	Black	Poor	0.1		
7/27	672	East Turret	Window case	3	Wood	Black	Poor	0.2		
7/27	673	East Turret	Ceiling	5	Plaster	Beige	Poor	>9.9	Positive	
7/27	674	Staircase	Hand rail	3	Metal	Yellow	Poor	>9.9	Positive	
7/27	675	Drill floor	Upper wall	1	Plaster	Beige	Poor	0.1		
7/27	676	Southwest corner	Lower wall	1	Plaster	Green	Poor	1.0	Positive	
7/27	677	Southwest corner	Lower wall	1	Plaster	Brown	Poor	1.5	Positive	
7/27	678	Southwest corner	Window frame	1	Wood	Beige	Poor	3.2	Positive	
7/27	679	Southwest corner	Door	1	Wood	Green	Poor	>9.9	Positive	
7/27	680	Southwest corner	Door case	1	Wood	Green	Poor	>9.9	Positive	
7/27	681	Southwest corner	Window apron	1	Concrete	Green	Poor	1.8	Positive	
7/27	682	Southwest corner	Steel structure upper	1	Metal	Beige	Poor	>9.9	Positive	
7/27	683	Southwest corner	Steel structure lower	1	Metal	Green	Poor	>9.9	Positive	
7/27	684	Southwest corner	Radiator cover	1	Metal	Green	Poor	5.2	Positive	
7/27	685	Southwest corner	Radiator	1	Metal	Silver	Poor	2.8	Positive	
7/27	686	Southwest corner	Upper wall	1	Brick	Beige	Poor	0.2		
7/27	687	Southwest corner	Lower wall	1	Brick	Green	Poor	5.2	Positive	
7/27	688	Southwest corner	Door case	1	Wood	Green	Poor	-0.0		
7/27	689	Southwest corner	Door case	1	Metal	Dark green	Poor	-0.1		
7/27	690	Southwest corner	Pipe riser	1	Metal	White	Poor	5.4	Positive	
7/27	691	Southwest corner	Pipe riser	1	Metal	Green	Poor	>9.9	Positive	
7/27	692	Southwest corner	Upper wall	1	Brick	Red	Poor	-0.0		
7/27	693	Southwest corner	Steel structure	1	Metal	White	Poor	7.0	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	694	Southwest corner	Steel structure	1	Metal	Green	Poor	>9.9	Positive	
7/27	695	Southwest corner	Lower wall	1	Brick	Brown	Poor	5.7	Positive	
7/27	696	Southwest corner	Pipe riser	1	Metal	Brown	Poor	7.9	Positive	
7/27	697	Southwest corner	Radiator cover	1	Metal	Brown	Poor	4.2	Positive	
7/27	698	Southwest corner	Steel structure	1	Metal	Yellow	Poor	>9.9	Positive	
7/27	699	Southwest corner	Steel structure	1	Metal	Brown	Poor	>9.9	Positive	
7/27	700	Southwest corner	Lower wall	1	Brick	Grey	Poor	>9.9	Positive	
7/27	701	Southwest corner	Pipe riser	1	Metal	Grey	Poor	>9.9	Positive	
7/27	702	Southwest corner	Steel structure	1	Metal	Grey	Poor	>9.9	Positive	
7/27	703	Drill floor	Radaitor	1	Metal	Grey	Poor	1.9	Positive	
7/27	704	Drill floor	Steel structure	1	Metal	White	Poor	5.8	Positive	
7/27	705	Drill floor	Upper wall	1	Concrete	White	Poor	-0.0		
7/27	706	Drill floor	Lower wall	1	Concrete	Brown	Poor	0.2		
7/27	707	Garage	Door case	2	Metal	Yellow	Fair	0.7		
7/27	708	Drill floor	Safety post	2	Metal	Yellow	Fair	5.3		
7/27	709	Drill floor	Door	3	Wood	Brown	Poor	3.5	Positive	
7/27	710	Drill floor	Door case	3	Wood	Brown	Poor	3.1	Positive	
7/27	711	Drill floor	Upper wall	3	Brick	Grey	Poor	5.7	Positive	
7/27	712	Drill floor	Lower wall	3	Brick	Brown	Poor	4.0	Positive	
7/27	713	Drill floor	Radiator cover	3	Metal	Brown	Poor	3.4	Positive	
7/27	714	Drill floor	Radiator	3	Metal	Brown	Poor	4.3	Positive	
7/27	715	Drill floor	Steel structure	3	Metal	Grey	Poor	>9.9	Positive	
7/27	716	Drill floor	Steel structure	3	Metal	Brown	Poor	>9.9	Positive	
7/27	717	Drill floor	Steel structure	3	Metal	Green	Poor	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/27	718	Drill floor	Upper wall	3	Concrete	White	Poor	0.4		
7/27	719	Drill floor	Lower wall	3	Concrete	Brown	Poor	-0.0		
7/27	720	Drill floor	Door	3	Metal	Brown	Poor	0.2		
7/27	721	Drill floor	Door case	3	Metal	Brown	Poor	0.4		
7/27	722	Drill floor	Wall	3	Wood	Blue	Poor	3.6	Positive	
7/27	723	Drill floor	Wall	3	Wood	Red	Poor	0.1		
7/27	724	Drill floor	Upper wall	3	Wood	White	Poor	-0.1		
7/27	725	Drill floor	Lower wall	3	Wood	Brown	Poor	0.0		
7/27	726	Drill floor	Upper wall	3	Brick	Lt. Grey	Poor	3.6	Positive	
7/27	727	Drill floor	Lower wall	3	Brick	Grey	Poor	>9.9	Positive	
7/27	728	Drill floor	Floor	6	Concrete	Grey	Poor	1.0	Positive	
7/28	729	Calibrate						1.7		
7/28	730	Calibrate						1.9	Avg. 1.7	
7/28	731	Calibrate						1.8		
7/28	732	Calibrate						1.8		
7/28	733	Calibrate						1.9	Avg. 1.8	
7/28	734	Calibrate						1.8		
7/28	735	Drill floor	Gate	4	Metal	Green	Poor	0.0		
7/28	736	Drill floor	Gate case	4	Metal	Green	Poor	2.1	Positive	
7/28	737	Drill floor	Upper wall	4	Brick	White	Poor	0.0		
7/28	738	Drill floor	Lower	1	Brick	Brown	Poor	>9.9	Positive	
7/28	739	By office 1-W2	Hand rail	1	Metal	Grey	Poor	0.3		
7/28	740	By office 1-W2	Newel post	1	Metal	Grey	Poor	0.3		
7/28	741	Drill floor	Stringer	1	Metal	Grey	Poor	9.3	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	742	Drill floor	Side of mezz. deck	1	Metal	Green	Poor	8.4	Positive	
7/28	743	Drill floor	Side of mezz. deck	1	Metal	White	Poor	5.7	Positive	
7/28	744	Drill floor	Hand rail	1	Metal	Grey	Poor	3.0	Positive	
7/28	745	Drill floor	Newel post	1	Metal	Grey	Poor	>9.9	Positive	
7/28	746	Drill floor	Stringer	1	Metal	Grey	Poor	9.6	Positive	
7/28	747	Drill floor	Hand rail	3	Metal	Grey	Poor	2.1	Positive	
7/28	748	Drill floor	Newel post	3	Metal	Grey	Poor	>9.9	Positive	
7/28	749	Drill floor	Stringer	3	Metal	Grey	Poor	9.0	Positive	
7/28	750	Drill floor balcony	Window sill	3	Wood	White	Poor	2.7	Positive	
7/28	751	Drill floor balcony	Window apron	3	Wood	Grate	Poor	0.7		
7/28	752	Drill floor balcony	Metal structure	3	Metal	Green	Poor	>9.9	Positive	
7/28	753	Drill floor balcony	Radiator	3	Metal	Green	Poor	>9.9	Positive	
7/28	754	Drill floor balcony	Metal structure	3	Metal	Green	Poor	9.7	Positive	
7/28	755	Drill floor balcony	Fence	3	Metal	Green	Poor	1.7	Positive	
7/28	756	Drill floor balcony	Chair	3	Metal	Black	Poor	-0.1		
7/28	757	Drill floor balcony	Chair	1	Metal	Black	Poor	5.0	Positive	
7/28	758	Drill floor balcony	Metal structure	3	Metal	Green	Poor	5.4	Positive	
7/28	759	Drill floor balcony	Chair	1	Metal	Black	Poor	0.1		
7/28	760	Drill floor balcony	Fence	3	Metal	Green	Poor	3.8	Positive	
7/28	761	Drill floor balcony	Metal structure	1	Metal	Green	Poor	7.6	Positive	
7/28	762	Drill floor balcony	Fence	1	Metal	Green	Poor	2.0	Positive	
7/28	763	Drill floor balcony	Chair	1	Wood	Black	Poor	-0.0		
7/28	764	Drill floor balcony	Chair	1	Metal	Black	Poor	0.5		
7/28	765	Drill floor balcony	Wall	1	Brick	White	Poor	2.7	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	766	Drill floor balcony	Steel structure	1	Metal	Green	Poor	>9.9	Positive	
7/28	767	Drill floor balcony	Chair	1	Wood	Black	Poor	0.1		
7/28	768	Drill floor balcony	Chair	1	Metal	Black	Poor	0.5		
7/28	769	Drill floor balcony	Wall	1	Brick	White	Poor	0.0		
7/28	770	Drill floor balcony	Steel structure	1	Metal	Green	Poor	>9.9	Positive	
7/28	771	Drill floor balcony	Fence	1	Metal	Green	Poor	2.5	Positive	
7/28	772	Drill floor balcony	Wall	1	Brick	White	Poor	-0.1		
7/28	773	Homeless shelter corridor	Door	1	Metal	Purple	Fair	-0.0		
7/28	774	Homeless shelter corridor	Door case	1	Metal	Purple	Fair	0.1		
7/28	775	Homeless shelter corridor	Upper wall	1	Sheetrock	Pink	Fair	0.2		
7/28	776	Homeless shelter corridor	Upper wall	6	Sheetrock	Pink	Fair	0.1		
7/28	777	Homeless shelter corridor	Upper wall	3	Sheetrock	Pink	Fair	0.1		
7/28	778	Homeless shelter corridor	Upper wall	4	Sheetrock	Pink	Fair	-0.1		
7/28	779	Homeless shelter corridor	Lower wall	1	Sheetrock	Purple	Fair	-0.0		
7/28	780	Homeless shelter corridor	Lower wall	2	Sheetrock	Purple	Fair	-0.1		

Tab 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	781	Homeless shelter corridor	Lower wall	3	Sheetrock	Purple	Fair	-0.2		
7/28	782	Homeless shelter corridor	Lower wall	4	Sheetrock	Purple	Fair	-0.1		
7/28	783	Homeless shelter corridor	Door	4	Metal	Red	Fair	-0.1		
7/28	784	Homeless shelter corridor	Door case	4	Metal	Red	Fair	-0.0		
7/28	785	E dorm	Door	1	Metal	Blue	Fair	-0.0		
7/28	786	E dorm	Door case	1	Metal	Blue	Fair	-0.0		
7/28	787	E dorm	Upper wall	1	Sheetrock	Lt. Blue	Fair	-0.0		
7/28	788	E dorm	Upper wall	2	Sheetrock	Lt. Blue	Fair	-0.2		
7/28	788	E dorm	Upper wall	3	Plaster	Lt. Blue	Fair	-0.1		
7/28	789	E dorm	Upper wall	4	Plaster	Lt. Blue	Fair	>9.9	Positive	
7/28	790	E dorm	Lower wall	1	Sheetrock	Dark blue	Fair	-0.2		
7/28	791	E dorm	Lower wall	2	Sheetrock	Dark blue	Fair	-0.1		
7/28	792	E dorm	Lower wall	3	Plaster	Dark blue	Fair	>9.9	Positive	
7/28	793	E dorm	Lower wall	4	Plaster	Dark blue	Fair	>9.9	Positive	
7/28	794	E dorm	Window sill	3	Wood	Blue	Fair	>9.9	Positive	
7/28	795	E dorm	Window case	3	Wood	Blue	Fair	>9.9	Positive	
7/28	796	E dorm	Window sash	3	Wood	Blue	Fair	>9.9	Positive	
7/28	797	E dorm	Window apron	3	Wood	Blue	Fair	-0.1		
7/28	798	E dorm	Radiator	3	Metal	Blue	Fair	0.5		
7/28	799	E dorm	Hand rail	4	Metal	Black	Fair	0.5		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	800	E dorm	Stair tread	4	Concrete	Brown	Fair	0.0		
7/28	801	E dorm	Stair riser	4	Concrete	Brown	Fair	0.1		
7/28	802	E dorm	Pipe riser	3	Metal	Blue	Fair	>9.9	Positive	
7/28	803	E dorm	Partition	6	Wood	Blue	Fair	-0.0		
7/28	804	E dorm	Ceiling	5	Concrete	White	Fair	>9.9	Positive	
7/28	805	E dorm	Dujct	5	Metal	Beige	Fair	0.7		
7/28	806	D dorm	Door	1	Metal	Pink	Fair	-0.1		
7/28	807	D dorm	Door case	1	Metal	Pink	Fair	-0.0		
7/28	808	D dorm	Upper wall	1	Sheetrock	Beige	Fair	-0.1		
7/28	809	D dorm	Upper wall	2	Sheetrock	Beige	Fair	-0.1		
7/28	810	D dorm	Upper wall	3	Sheetrock	Beige	Fair	-0.3		
7/28	811	D dorm	Upper wall	4	Sheetrock	Beige	Fair	-0.0		
7/28	812	D dorm	Lower wall	1	Sheetrock	Pink	Fair	-0.1		
7/28	813	D dorm	Lower wall	2	Sheetrock	Pink	Fair	-0.1		
7/28	814	D dorm	Lower wall	3	Sheetrock	Pink	Fair	-0.0		
7/28	815	D dorm	Lower wall	4	Sheetrock	Pink	Fair	-0.1		
7/28	816	D dorm	Window sill	3	Wood	Pink	Fair	>9.9	Positive	
7/28	817	D dorm	Window case	3	Wood	Pink	Fair	>9.9	Positive	
7/28	818	D dorm	Window sash	3	Wood	Pink	Fair	>9.9	Positive	
7/28	819	D dorm	Window apron	3	Wood	Pink	Fair	-0.1		
7/28	820	D dorm	Radiator	3	Metal	Pink	Poor	3.2	Positive	
7/28	821	D dorm	Partition	3	Wood	Pink	Poor	-0.1		
7/28	822	D dorm	Duct	5	Metal	Beige	Fair	0.5		
7/28	823	D dorm	Ceiling	5	Concrete	Beige	Fair	>9.9	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	824	B dorm	Door	1	Metal	Brown	Fair	-0.2		
7/28	825	B dorm	Door case	1	Metal	Purple	Fair	-0.1		
7/28	826	B dorm	Upper wall	1	Sheetrock	Beige	Fair	-0.2		
7/28	827	B dorm	Upper wall	2	Sheetrock	Beige	Fair	-0.1		
7/28	828	B dorm	Upper wall	3	Plaster	Beige	Fair	>9.9	Positive	
7/28	829	B dorm	Upper wall	4	Sheetrock	Beige	Fair	-0.2		
7/28	830	B dorm	Lower wall	1	Sheetrock	Yellow	Fair	0.0		
7/28	831	B dorm	Lower wall	2	Sheetrock	Yellow	Fair	-0.0		
7/28	832	B dorm	Lower wall	3	Plaster	Yellow	Fair	>9.9	Positive	
7/28	833	B dorm	Lower wall	4	Sheetrock	Yellow	Fair	-0.1		
7/28	834	B dorm	Window sill	3	Wood	Yellow	Fair	-0.1		
7/28	835	B dorm	Window case	3	Wood	Yellow	Fair	8.9	Positive	
7/28	836	B dorm	Window sash	3	Wood	Yellow	Fair	6.3	Positive	
7/28	837	B dorm	Window apron	3	Wood	Yellow	Fair	0.2		
7/28	838	B dorm	Radiator	3	Metal	Yellow	Fair	0.2		
7/28	839	B dorm	Duct	5	Metal	Beige	Fair	0.7		
7/28	840	B dorm	Ceiling	5	Concrete	Beige	Fair	9.7	Positive	
7/28	841	A dorm	Door	1	Metal	Peach	Fair	-0.1		
7/28	842	A dorm	Door case	1	Metal	Peach	Fair	-0.1		
7/28	843	A dorm	Upper wall	1	Sheetrock	Pink	Fair	-0.0		
7/28	844	A dorm	Upper wall	2	Plaster	Pink	Fair	>9.9	Positive	
7/28	845	A dorm	Upper wall	3	Plaster	Pink	Fair	>9.9	Positive	
7/28	846	A dorm	Upper wall	4	Sheetrock	Pink	Fair	0.0		
7/28	847	A dorm	Lower wall	1	Sheetrock	Peach	Fair	-0.3		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	848	A dorm	Lower wall	2	Plaster	Peach	Fair	0.0		
7/28	849	A dorm	Lower wall	3	Plaster	Peach	Fair	>9.9	Positive	
7/28	850	A dorm	Lower wall	4	Sheetrock	Peach	Fair	-0.0		
7/28	851	A dorm	Window sill	3	Wood	Peach	Fair	>9.9	Positive	
7/28	852	A dorm	Window case	3	Wood	Peach	Fair	>9.9	Positive	
7/28	853	A dorm	Window sash	3	Wood	Peach	Fair	5.9	Positive	
7/28	854	A dorm	Window apron	3	Wood	Peach	Fair	0.0		
7/28	855	A dorm	Radiator	3	Metal	Peach	Fair	-0.0		
7/28	856	A dorm	Pipe riser	3	Metal	Peach	Fair	0.4		
7/28	857	A dorm	Duct	3	Metal	Pink	Fair	>9.9	Positive	
7/28	858	A dorm	Ceiling	5	Concrete	Beige	Fair	>9.9	Positive	
7/28	859	A dorm	Duct	5	Metal	Beige	Fair	0.7		
7/28	860	A dorm	Partition	6	Wood	Pink	Fair	0.1		
7/28	861	Foyer, exit B	Door	1	Metal	Red	Fair	0.4		
7/28	862	Foyer, exit B	Door case	1	Metal	Red	Fair	1.6	Positive	
7/28	863	Foyer, exit B	Wall	1	Plaster	White	Fair	-0.1		
7/28	864	Foyer, exit B	Wall	2	Sheetrock	White	Fair	-0.1		
7/28	865	Foyer, exit B	Wall	3	Plaster	White	Fair	>9.9	Positive	
7/28	866	Foyer, exit B	Wall	4	Plaster	White	Fair	>9.9	Positive	
7/28	867	Foyer, exit B	Ceiling	5	Concrete	White	Fair	>9.9	Positive	
7/28	868	Foyer, exit B	Floor	6	Concrete	Grey	Poor	0.1		
7/28	869	Foyer, exit B	Hand rail	4	Metal	Black	Poor	0.4		
7/28	870	Foyer, exit B	Stair tread	4	Concrete	Black	Poor	0.4		
7/28	871	Foyer, exit B	Stair riser	4	Concrete	Black	Poor	0.4		

Table
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	872	Foyer, exit B	Stringer	4	Concrete	Black	Fair	1.0	Positive	
7/28	873	National Guard area, entry foyer	Door	1	Metal	Grey	Fair	6.2	Positive	
7/28	874	National Guard area, entry foyer	Door case	1	Metal	Grey	Fair	5.2	Positive	
7/28	875	National Guard area, entry foyer	Door screen	1	Metal	Black	Fair	0.6		
7/28	876	National Guard area, entry foyer	Window case	4	Metal	Beige	Fair	2.7	Positive	
7/28	877	National Guard area, entry foyer	Window sash	4	Metal	Beige	Fair	3.7	Positive	
7/28	878	1st floor, corridor	Door case	1	Metal	Grey	Fair	0.1		
7/28	879	1st floor, corridor	Upper wall	1	Concrete	Ivory	Fair	1.3	Positive	
7/28	880	1st floor, corridor	Upper wall	2	Concrete	Ivory	Fair	1.0	Positive	
7/28	881	1st floor, corridor	Upper wall	3	Concrete	Ivory	Fair	1.3	Positive	
7/28	882	1st floor, corridor	Upper wall	4	Concrete	Ivory	Fair	-0.1		
7/28	883	1st floor, corridor	Lower wall	1	Concrete	Grey	Fair	0.4		
7/28	884	1st floor, corridor	Lower wall	2	Concrete	Grey	Fair	1.0	Positive	
7/28	885	1st floor, corridor	Lower wall	3	Concrete	Grey	Fair	1.4	Positive	
7/28	886	1st floor, corridor	Lower wall	4	Concrete	Grey	Fair	1.0	Positive	
7/28	887	1st floor, corridor	Radiator	3	Metal	Grey	Fair	0.6		
7/28	888	1st floor, corridor	Window sill	1	Concrete	Ivory	Fair	1.0	Positive	
7/28	889	1st floor, corridor	Window case	1	Metal	Black	Fair	1.6	Positive	
7/28	890	1st floor, corridor	Window sash	1	Metal	Black	Fair	2.5	Positive	

Table
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	891	1st floor, corridor	Ceiling	5	Sheetrock	Ivory	Fair	-0.0		
7/28	892	1st floor, corridor	Floor	6	Concrete	Grey	Fair	-0.2		
7/28	893	1st floor, corridor	Door	2	Metal	Red	Fair	-0.1		
7/28	894	1st floor, corridor	Door case	2	Metal	Red	Fair	-0.0		
7/28	895	2nd floor, corridor	Door	2	Wood	Stained	Fair	0.7		
7/28	896	2nd floor, corridor	Door case	2	Metal	Grey	Fair	1.4	Positive	
7/28	897	Office 2-14	Door	1	Wood	Grey	Fair	-0.3		
7/28	898	Office 2-14	Door case	1	Metal	Grey	Fair	1.6	Positive	
7/28	899	Office 2-14	Wall	1	Concrete	Ivory	Fair	1.4	Positive	
7/28	900	Office 2-14	Wall	2	Concrete	Ivory	Fair	1.7	Positive	
7/28	901	Office 2-14	Wall	3	Concrete	Ivory	Fair	1.3	Positive	
7/28	902	Office 2-14	Window sill	3	Concrete	Black	Fair	1.9	Positive	
7/28	903	Office 2-14	Window case	3	Metal	Black	Fair	4.0	Positive	
7/28	904	Office 2-14	Window sash	3	Metal	Black	Fair	2.8	Positive	
7/28	905	Office 2-14	Radiator	3	Metal	Black	Fair	0.6		
7/28	906	Office 24, staircase	Door	1	Metal	Brown	Fair	1.7	Positive	
7/28	907	Office 24, staircase	Upper wall	1	Concrete	Ivory	Fair	0.3		
7/28	908	Office 24, staircase	Upper wall	2	Concrete	Ivory	Fair	2.1	Positive	
7/28	909	Office 24, staircase	Upper wall	3	Concrete	Ivory	Fair	0.3		
7/28	910	Office 24, staircase	Upper wall	4	Concrete	Ivory	Fair	0.5		
7/28	911	Office 24, staircase	Lower wall	1	Metal	Grey	Fair	0.5		
7/28	912	Office 24, staircase	Lower wall	2	Metal	Grey	Fair	0.5		
7/28	913	Office 24, staircase	Lower wall	3	Metal	Grey	Fair	0.5		
7/28	914	Office 24, staircase	Lower wall	4	Metal	Grey	Fair	0.5		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	915	Office 24, staircase	Window case	3	Metal	Ivory	Fair	1.6	Positive	
7/28	916	Office 24, staircase	Window sash	3	Metal	Ivory	Fair	2.6	Positive	
7/28	917	Office 24, staircase	Hand rail	3	Metal	Black	Fair	5.2	Positive	
7/28	918	Office 24, staircase	Newel post	3	Metal	Black	Fair	1.9	Positive	
7/28	919	Office 24, staircase	Stair tread	3	Concrete	Grey	Fair	-0.1		
7/28	920	Office 24, staircase	Stair riser	3	Metal	Black	Fair	1.6	Positive	
7/28	921	Office 24, staircase	Stringer	3	Metal	Black	Fair	4.8	Positive	
7/28	922	Basement	Wall	1	Concrete	Blue	Fair	-0.1		
7/28	923	Basement	Wall	2	Concrete	Blue	Fair	-0.1		
7/28	924	Basement	Wall	3	Concrete	Blue	Fair	-0.1		
7/28	925	Basement	Wall	4	Concrete	Blue	Fair	-0.2		
7/28	926	Basement	Ceiling	5	Concrete	Blue	Fair	-0.0		
7/28	927	Basement	Door case	1	Metal	Red	Fair	0.3		
7/28	928	Basement	Duct	5	Metal	Blue	Fair	0.3		
7/28	929	Basement	Pipe riser	4	Metal	Blue	Fair	0.4		
7/28	930	Office 1-1	Door	1	Wood	Grey	Fair	-0.0		
7/28	931	Office 1-1	Door case	1	Metal	Grey	Fair	0.2		
7/28	932	Office 1-1	Wall	1	Concrete	Ivory	Fair	0.2		
7/28	933	Office 1-1	Wall	2	Concrete	Ivory	Fair	0.2		
7/28	934	Office 1-1	Wall	3	Concrete	Ivory	Fair	0.4		
7/28	935	Office 1-1	Wall	4	Concrete	Ivory	Fair	0.0		
7/28	936	Office 1-1	Baseboard	4	Concrete	Grey	Fair	0.4		
7/28	937	Office 1-1	Pipe riser	2	Metal	Ivory	Fair	0.5		
7/28	938	Office 1-1	Window case	2	Metal	Blue	Fair	3.3	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	939	Office 1-1	Window sash	2	Metal	Blue	Fair	4.6	Positive	
7/28	940	Office 1-1	Ceiling	5	Sheetrock	White	Fair	0.0		
7/28	941	Office 1-1	Floor	6	Concrete	Grey	Fair	0.3		
7/28	942	National Guard garage	Door	1	Metal	Grey	Fair	1.8	Positive	
7/28	943	National Guard garage	Door case	1	Metal	Grey	Fair	0.2		
7/28	944	National Guard garage	Upper wall	2	Concrete	Lt. grey	Fair	0.1		
7/28	945	National Guard garage	Lower wall	2	Concrete	Dark grey	Fair	0.2		
7/28	946	National Guard garage	Upper wall	3	Concrete	Lt. grey	Fair	2.0	Positive	
7/28	947	National Guard garage	Lower wall	3	Concrete	Dark grey	Fair	2.0	Positive	
7/28	948	National Guard garage	Upper wall	4	Concrete	Lt. grey	Fair	-0.1		
7/28	949	National Guard garage	Lower wall	4	Concrete	Dark grey	Fair	0.0		
7/28	950	National Guard garage	Partition wall	4	Wood	Pink	Fair	-0.1		
7/28	951	National Guard garage	Upper wall	1	Concrete	Lt. grey	Fair	0.1		
7/28	952	National Guard garage	Lower wall	1	Concrete	Dark grey	Fair	0.1		
7/28	953	National Guard garage	Lower wall	1	Concrete	Red	Fair	-0.1		
7/28	954	National Guard garage	Window case	2	Metal	Grey	Poor	1.9	Positive	
7/28	955	National Guard garage	Floor	6	Concrete	Grey	Fair	-0.2		
7/28	956	National Guard garage	Ceiling	5	Concrete	Grey	Fair	-0.1		
7/28	957	National Guard garage	Beam	5	Metal	Grey	Fair	3.5	Positive	
7/28	958	National Guard garage	Floor	6	Concrete	Yellow	Fair	>9.9	Positive	
7/28	959	National Guard garage	Safety cover	2	Metal	Green	Fair	3.5	Positive	
7/28	960	National Guard garage	Control panel	4	Metal	Blue	Fair	0.0		
7/28	961	Calibrate						1.7		
7/28	962	Calibrate						1.9	Avg. 1.8	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	963	Calibrate						1.8		
7/28	964	Basement, auditorium	Door	1	Wood	Green	Poor	0.4		
7/28	965	Basement, auditorium	Door case	1	Wood	Green	Poor	0.5		
7/28	966	Basement, auditorium	Upper wall	1	Plaster	Grey	Poor	-0.1		
7/28	967	Basement, auditorium	Upper wall	2	Plaster	Grey	Poor	-0.0		
7/28	968	Basement, auditorium	Upper wall	4	Plaster	Grey	Poor	-0.1		
7/28	969	Basement, auditorium	Lower wall	1	Plaster	Beige	Poor	-0.0		
7/28	970	Basement, auditorium	Lower wall	2	Plaster	Beige	Poor	0.2		
7/28	971	Basement, auditorium	Lower wall	4	Plaster	Beige	Poor	-0.1		
7/28	972	Basement, auditorium	Baseboard	1	Concrete	Grey	Poor	0.5		
7/28	973	Basement, auditorium	Column upper	6	Concrete	Grey	Poor	0.1		
7/28	974	Basement, auditorium	Column lower	6	Concrete	Beige	Poor	-0.0		
7/28	975	Basement, auditorium	Floor	6	Concrete	Grey	Poor	0.3		
7/28	976	Basement, auditorium	Ceiling	5	Concrete	Grey	Poor	-0.0		
7/28	977	Basement, auditorium	Stringer	1	Metal	Beige	Poor	>9.9	Positive	
7/28	978	Bsmnt, corridor stairs	Hand rail	6	Metal	Grey	Poor	7.9	Positive	
7/28	979	Bsmnt, corridor stairs	Newel post	6	Metal	Grey	Poor	4.9	Positive	
7/28	980	Bsmnt, corridor stairs	Stringer	6	Metal	Grey	Poor	>9.9	Positive	
7/28	981	Bsmnt, corridor stairs	Hand rail	6	Metal	Grey	Poor	5.8	Positive	
7/28	982	Bsmnt, corridor stairs	Newel post	6	Concrete	Grey	Poor	6.4	Positive	
7/28	983	Bsmnt, corridor stairs	Stringer	6	Concrete	Grey	Poor	4.5	Positive	
7/28	984	Bsmnt, corridor stairs	Ceiling	5	Concrete	White	Poor	0.3		
7/28	985	Lock RC3	Ceiling	5	Concrete	White	Poor	7.2	Positive	
7/28	986	Lock RC17	Ceiling	5	Concrete	White	Poor	0.0		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	987	Gym	Ceiling	5	Concrete	Grey	Poor	-0.1		
7/28	988	Boiler R	Ceiling	5	Concrete	Grey	Poor	7.3	Positive	
7/28	989	Boiler R#1	Ceiling	5	Concrete	Grey	Poor	>9.9	Positive	
7/28	990	Boiler R#2	Ceiling	1	Concrete	Grey	Poor	0.3		
7/28	991	B40	Door case	1	Metal	Blue	Poor	1.7	Positive	
7/28	992	B40	Wall	1	Plaster	Yellow	Poor	-0.1		
7/28	993	B40	Wall	2	Plaster	Yellow	Poor	>9.9	Positive	
7/28	994	B40	Wall	3	Plaster	Yellow	Poor	>9.9	Positive	
7/28	995	B40	Wall	4	Plaster	Yellow	Poor	>9.9	Positive	
7/28	996	B40	Radiator	1	Metal	Silver	Poor	0.3		
7/28	997	B40	Window sill	3	Wood	Blue	Poor	0.2		
7/28	998	B40	Window case	3	Wood	Blue	Poor	0.3		
7/28	999	B40	Window sash	3	Wood	Blue	Poor	0.2		
7/28	1	B40	Window apron	3	Wood	Blue	Poor	0.2		
7/28	2	B40	Ceiling	5	Concrete	White	Poor	>9.9	Positive	
7/28	3	B40	Pipe riser	3	Metal	Blue	Poor	1.5	Positive	
7/28	4	B48	Door	1	Metal	Grey	Poor	4.5	Positive	
7/28	5	B48	Door case	1	Metal	Grey	Poor	7.8	Positive	
7/28	6	B48	Wall	1	Concrete	Yellow	Poor	-0.1		
7/28	7	B48	Wall	2	Concrete	Yellow	Poor	0.1		
7/28	8	B48	Wall	3	Brick	Yellow	Poor	0.1		
7/28	9	B48	Wall	4	Concrete	Green	Poor	0.0		
7/28	10	B48	Ceiling	5	Concrete	Green	Poor	0.0		
7/28	11	B48	Shelf	4	Wood	Grey	Poor	0.6		

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	12	B48	Shelf support	4	Wood	Grey	Poor	0.7		
7/28	13	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Hand rail	1	Metal	Grey	Poor	>9.9	Positive	
7/28	14	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Newel post	1	Metal	Grey	Poor	7.0	Positive	
7/28	15	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Stringer	1	Metal	Grey	Poor	8.8	Positive	
7/28	16	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Flag pole	1	Metal	Ivory	Poor	1.7	Positive	
7/28	17	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Flag pole base	1	Metal	Ivory	Poor	0.4		
7/28	18	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Artelery deco.	1	Metal	Ivory	Poor	1.5	Positive	
7/28	19	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Hand rail	1	Metal	Black	Poor	4.2	Positive	

Tab
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	20	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Door	1	Metal	Black	Poor	1.6	Positive	
7/28	21	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Guard railing	1	Metal	Black	Poor	1.5	Positive	
7/28	22	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Fence	1	Metal	Black	Poor	2.8	Positive	
7/28	23	Bsmnt, near RB3 stairs outside ext. of Kingsbridge Ave.	Gate	1	Metal	Black	Poor	0.2		
7/28	24	Ext. Jerome Avenue.	Door	4	Metal	Black	Poor	-0.0		
7/28	25	Ext. Jerome Avenue.	Door case	4	Metal	Black	Poor	1.5	Positive	
7/28	26	Ext. Jerome Avenue.	Door guard	4	Metal	Black	Poor	0.2		
7/28	27	Ext. Jerome Avenue.	Window apron	4	Concrete	Black	Poor	0.1		
7/28	28	Ext. Jerome Avenue.	Vent	4	Metal	Black	Poor	5.7	Positive	
7/28	29	Ext. Jerome Avenue.	Window guard	4	Metal	Black	Poor	1.4	Positive	
7/28	30	National Guard office building	Wall	1	Brick	Green	Poor	-0.0		
7/28	30	National Guard office building	Gate	1	Metal	Black	Poor	4.1	Positive	
7/28	31	National Guard office building	Fence	1	Metal	Black	Poor	5.4	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	32	National Guard office building	Hand rail	1	Metal	Grey	Poor	2.7	Positive	
7/28	33	National Guard office building	Door	1	Metal	Grey	Poor	5.4	Positive	
7/28	34	National Guard office building	Door case	1	Metal	Grey	Poor	3.9	Positive	
7/28	35	Exit	Gas guage	4	Metal	Yellow	Fair	1.8	Positive	
7/28	36	Exit	Gas guage	4	Metal	Grey	Fair	0.5		
7/28	37	Exit	Door	4	Metal	Grey	Fair	1.9	Positive	
7/28	38	Exit	Door case	4	Metal	Grey	Fair	5.3	Positive	
7/28	39	Exit	Hand rail	4	Metal	Grey	Fair	0.7		
7/28	40	Garage exit	Door case	1	Metal	Green	Fair	4.1	Positive	
7/28	41	Garage exit	Gate	1	Metal	Green	Fair	0.3		
7/28	42	Garage exit	Fence	1	Metal	Blak	Fair	3.1	Positive	
7/28	43	Garage exit	Door	2	Metal	Green	Fair	0.1		
7/28	44	Garage exit	Door case	2	Metal	Green	Fair	1.4	Positive	
7/28	45	Garage exit	Pipe riser	2	Metal	Green	Fair	1.7	Positive	
7/28	46	Garage exit	Window gate	1	Metal	Green	Fair	3.1	Positive	
7/28	47	Garage exit	Smoke stack door	2	Metal	Green	Fair	-0.0		
7/28	48	Garage exit	Storage cont. wall	1	Metal	Green	Fair	-0.0		
7/28	49	Garage exit	Storage cont. wall	2	Metal	Green	Fair	0.4		
7/28	50	Garage exit	Storage cont. wall	4	Metal	Green	Fair	0.4		
7/28	51	Garage exit	Fence	4	Metal	Black	Fair	>9.9	Positive	
7/28	52	Garage exit	Door	4	Metal	Green	Fair	3.5	Positive	

Table 1
Kingsbridge Armory
XRF Survey Data

Date	Shot #	Room	Component	Wall	Substrate	Color	Condition	XRF Reading	Classification	Sample ID
7/28	53	Garage exit	Door	4	Metal	Yellow	Fair	1.7	Positive	
7/28	54	Garage exit	Safety corner	4	Metal	Yellow	Fair	7.0	Positive	
7/28	55	Garage exit	Safety corner	4	Metal	Green	Fair	5.7	Positive	
7/28	56	Garage exit	Door	4	Metal	Green	Fair	1.7	Positive	
7/28	57	Garage exit	Door case	4	Metal	Green	Fair	>9.9	Positive	
7/28	58	Garage exit	Window guard	4	Metal	Green	Fair	2.4	Positive	
7/28	59	Garage exit	Drain pipe	4	Metal	Green	Fair	0.1		
7/28	60	Garage exit	Pipe riser	4	Metal	Green	Fair	0.6		
7/28	61	Calibrate						1.8		
7/28	62	Calibrate						1.7	Avg. 1.8	
7/28	63	Calibrate						1.9		

ATC ASSOCIATES, INC
104 E 25th Street, 10th Floor
New York, NY 10010
Tel. 212-353-8280
Fax 212-353-8306

REPORT DATE: 08-14-00

CLIENT: ET Environmetal

PROJECT No: 75018.0001

SAMPLED BY: F. Burkhardt

SAMPLE DATE: 08-11-00
DATE RECEIVED: 08-13-00
DATE ANALYZED: 08-13-00

SAMPLE MEDIA: Paint Chips
ANALYSIS REQUIRED: Method EPA 3050/7420

ANALYSIS RESULTS

SAMPLE ID	BATCH NO.	SAMPLE DESCRIPTION	LEAD CONCENTRATION (% by weight)	DETECTION LIMIT
1	8583	Rifle. R. - Aband.	0.07	0.01
2	8583	Rifle R. - Active	0.04	0.01
3	8583	Pistol 1-4	1.17	0.01
4	8583	Pistol 9-12	56.67	0.01
C-1	8583	Steel Truss	32.21	0.01
C-2	8583	Steel Truss	39.68	0.01
C-3	8583	Steel Truss	16.56	0.01
C-4	8583	Steel Truss	21.66	0.01
C-5	8583	Steel Truss	8.92	0.01
C-6	8583	Steel Truss	0.46	0.01

NOTE 1:
THE REPORTING LIMIT (RL) IS 0.01%

NOTE 2:
HUD defines lead-based paint as paint having a lead concentration equal to or above 0.5% by weight.
Results preceded by "<" are below the detectable levels by this analysis method.

ATC ASSOCIATES, INC
104 E 25th Street, 10th Floor
New York, NY 10010
Tel. 212-353-8280
Fax 212-353-8306

CERTIFICATION AND SIGNATURES

ANALYSIS PERFORMED BY: TL

REPORT PREPARED BY: [signature]

ATC certifies that this report is an accurate and authentic report of results obtained from the laboratory analysis.

QUALITY ASSURANCE COORDINATOR: [signature]

LABORATORY DIRECTOR: [signature]

ATC is accredited by the New York State Department of Health Environmental Laboratory Approval Program (NYS DOH ELAP) to perform analysis of lead in paint and dust wipes (ELAP #10879).

ASSOCIATES INC.

104 EAST 25TH STREET
NEW YORK, NY 10010
PHONE: 212-353-8280 FAX: 212-979-8447

8582

CHAIN OF CUSTODY

CLIENT NAME: ET ENVIRONMENTAL

SITE ADDRESS: KINGS BRIDGE ARMORY

JOB #: 75018.0001

SAMPLE TYPE (Paint Chip, Dust Wipe, etc...): CHIP / GRAB

OF SAMPLES: 10

SAMPLED BY: F. BURICHART

ANALYSIS REQUIRED (AAS-mg/sq.cm, etc...): PD-AAS % WT

TURN AROUND TI: SAME DAY

	SAMPLE I.D.	DATE	SAMPLE DESCRIPTION/LOCATION	AREA (in x in)	D.L.	RESULT OF ANAL
1	1	8/11	RIFLE RANGE - ABANDONED	N/A		
2	2	"	" - ACTIVE	"		
3	3	"	PISTOL 1-4	"		
4	4	"	PISTOL 9-12	"		
5	C-1	"	STEEL TRUSS	"		
6	C-2	"	"	"		
7	C-3	"	"	"		
8	C-4	"	"	"		
9	C-5	"	"	"		
10	C-6	8/11	"	"		
	--			N/A		

RELINQUISHED BY (SIGNATURE BELOW)

PRINT NAME: (BELOW) F. BURICHART

DATE/TIME 8/14

RECEIVED BY: (SIGNATURE BELOW)

PRINT NAME: (BELOW) J. MAPP

DATE/TIME 8/15/00 10 a.m.

RELINQUISHED BY (SIGNATURE BELOW)

PRINT NAME: (BELOW)

DATE/TIME

RECEIVED BY: (SIGNATURE BELOW)

PRINT NAME: (BELOW)

DATE/TIME

REPORTING PROVIDED BY:

LABORATORY DIRECTOR (SIGNATURE)

PRINT NAME: (BELOW)

DATE/TIME

AIHA NLLAP #

ATC ASSOCIATES, INC
104 E 25th Street, 10th Floor
New York, NY 10010
Tel. 212-353-8280
Fax 212-353-8306

REPORT DATE: 07-31-00

CLIENT: ET

PROJECT ADDRESS: Kingsbridge Armory

SAMPLE BY: M. Medinets

SAMPLE DATE: 07-24-00
DATE RECEIVED: 07-28-00
DATE ANALYZED: 07-28-00

SAMPLE MEDIA: Paint Chips
ANALYSIS REQUIRED: Method EPA 3050/7420

ANALYSIS RESULTS

SAMPLE ID	BATCH NO.	SAMPLE DESCRIPTION	LEAD CONCENTRATION (% by weight)	DETECTION LIMIT
01	8553	Stair Tread Sub. Bsmt. (Boiler Room)	0.13	0.01
02	8553	Control Panel Rm #3 Boiler Room	0.01	0.01
03	8553	Rm 4 Basment C16 Mez. Door	1.38	0.01

NOTE 1:
THE REPORTING LIMIT (RL) IS 0.01%

NOTE 2:
HUD defines lead-based paint as paint having a lead concentration equal to or above 0.5% by weight.
Results preceded by "<" are below the detectable levels by this analysis method.

CERTIFICATION AND SIGNATURES

ANALYSIS PERFORMED BY: _____

REPORT PREPARED BY: _____

ATC certifies that this report is an accurate and authentic report of results obtained from the laboratory analysis.

QUALITY ASSURANCE COORDINATOR: _____

LABORATORY DIRECTOR: _____

ATC is accredited by the New York State Department of Health Environmental Laboratory Approval Program (NYS DOH ELAP) to perform analysis of lead in paint and dust wipes (ELAP #10879).

ATC ASSOCIATES INC.
PAINT CHIP SAMPLING - CHAIN OF CUSTODY
194 EAST 25TH STREET, 10TH FLOOR
NEW YORK, NEW YORK 10010
PHONE: 212-353-8289 FAX: 212-979-8447

S553

PAGE___OF___
TOTAL # OF SAMPLES:___

ient Name: E T
Client Number: _____
Date: 7. 24. 00
oject Address: Kingsbridge Armory
Project Manager: F. Beurkhardt
Turnaround Time: 24h
vestigator: _____
Room Number: _____
Required: % by weight

Sample Number	Component & Location	Condition of Paint Surface	Substrate	Surface Paint Color	Type of Structure	Detection Limit	Pb % by Weight
01	Stair tread Sub BSM (Boiler Room)	___ Intact ___ Fair ✓ Poor	___ Sheetrock ___ Wood ✓ Metal ___ Masonry ___ Plaster___ Other	gray	___ Steel Structure ✓ Commercial ___ Industrial ___ Residential	0.01	0.13
02	control panel R#3 boiler room	___ Intact ___ Fair ✓ Poor	___ Sheetrock ___ Wood ✓ Metal ___ Masonry ___ Plaster___ Other	gray	___ Steel Structure ✓ Commercial ___ Industrial ___ Residential	0.01	0.01
03	R#4 BSM C. 16 Mez Door	___ Intact ___ Fair ✓ Poor	___ Sheetrock ___ Wood ✓ Metal ___ Masonry ___ Plaster___ Other	gray	___ Steel Structure ___ Commercial ___ Industrial ___ Residential	0.01	1.38
		___ Intact ___ Fair ___ Poor	___ Sheetrock ___ Wood ___ Metal ___ Masonry ___ Plaster___ Other		___ Steel Structure ___ Commercial ___ Industrial ___ Residential		
		___ Intact ___ Fair ___ Poor	___ Sheetrock ___ Wood ___ Metal ___ Masonry ___ Plaster___ Other		___ Steel Structure ___ Commercial ___ Industrial ___ Residential		

OMMENTS: _____

LINQUISHED BY (SIGNATURE BELOW):	DATE/TIME	RECIEVED BY (SIGNATURE BELOW):	DATE/TIME:	LABORATORY:	
R. Medrick	7.28.00	AM 07/28 9 pm			
INT NAME:	DATE/TIME	PRINT NAME:	DATE/TIME:	NLLAP#	ELAP#

CHAIN OF CUSTODY RECORD

WORK ORDER NO. _____

SCILAB

SCILAB BOSTON, INC.

8 School Street Weymouth, MA 02189-8951
781 337-9334 / FAX 781 337-7642

DUE DATE _____

COMPANY: ATC ASSOCIATES
104 EAST 25TH ST - 10TH FL
NY, NY 10010

PHONE: 212-353-8780 FAX #: 212-353-8306

P.O.#: 75010-1

CLIENT CONTACT: _____

PROJECT #: KINGSBRIDGE ARMORY

SAMPLE TYPE
1. WATER 6. WIPES
2. SOIL 7. AIR CASSETTE
3. SLUDGE 8. OTHER
4. OIL
5. CHIPS

CONTAINER TYPE
P - PLASTIC
G - GLASS
V - VOA

SCILAB SAMPLE #	CLIENT SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING INFORMATION DATE	TIME	TECH	PRESERVATIVES	TCLP LEAD	SAMPLE pH at login
	1	2		P						X	
	2	2		P						X	
	3	2		P						X	
	4	2		P						X	

REPORT PACKAGES
- MWRA ☐
- MA DEP ☐
- RDR ☐
- ASP A ☐
- ASP B ☐
- QC LEVEL 1 ☐
- QC LEVEL 2 ☐

SAMPLED BY: T. Burke

RELINQUISHED BY: FEDEX 8198 2057 4640

RELINQUISHED BY: T. Burke

DATE: 8/11/00 TIME: 1100 — RECEIVED BY

DATE: 8/11/00 TIME: 1700 — RECEIVED BY

DATE: TIME: — RECEIVED BY

DATE: TIME:

DATE: TIME:

DATE: TIME:

Temperature upon receipt _____

SPECIAL INSTRUCTIONS

☐ 24 HOUR TAT ☐ 72 HOUR TAT

☒ 48 HOUR TAT ☐ 5 DAY TAT

TOTAL P.02

Shade area for ... Gold copy - Or ... Lab use only. Remains

ATC ASSOCIATES INC.

PAINT CHIP SAMPLING - CHAIN OF CUSTODY

104 EAST 25TH STREET, N[illegible] FLOOR
NEW YORK, NEW YORK 10010
PHONE: 212-353-8280 FAX: 212-979-8447

TOTAL # OF SAMPLES: 3

Name: ET

Client Number:

Date: 7.24.00

Address: Kingsbridge Armory

Project Manager: F. Burkhardt

Turnaround Time: 24h

gator:

Room Number:

Required: % by weight

ıple ıber	Component & Location	Condition of Paint Surface	Substrate	Surface Paint Color	Type of Structure	Detection Limit	Pb % by Weight
1	Stair tread Sub bsm (Boiler Room)	Intact / Fair / ✓ Poor	Sheetrock / Wood / ✓ Metal / Masonry / Plaster Other	gray	Steel Structure / ✓ Commercial / Industrial / Residential		
2	Control panel R#3 boiler room	Intact / Fair / ✓ Poor	Sheetrock / Wood / ✓ Metal / Masonry / Plaster Other	gray	Steel Structure / ✓ Commercial / Industrial / Residential		
3	R#4 BSM C 16 Mez Door	Intact / Fair / ✓ Poor	Sheetrock / Wood / ✓ Metal / Masonry / Plaster Other	gray	Steel Structure / ✓ Commercial / Industrial / Residential		
		Intact / Fair / Poor	Sheetrock / Wood / Metal / Masonry / Plaster Other		Steel Structure / Commercial / Industrial / Residential		
		Intact / Fair / Poor	Sheetrock / Wood / Metal / Masonry / Plaster Other		Steel Structure / Commercial / Industrial / Residential		

ITS:

HED BY (SIGNATURE BELOW): DATE/TIME	RECIEVED BY (SIGNATURE BELOW):	DATE/TIME:	LABORATORY:	
Medi web 7.28.00				
E: DATE/TIME	PRINT NAME:	DATE/TIME:	NLLAP#	ELAP#