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March 12, 2014

Ms. Sun Kim
Senior Project Manager
ADD Inc.
311 Summer Street
Boston. MA

RE: Covino Project 14.00046
Hazardous Building Materials Inspection Report-Revised
Former Powderhouse School
1060 Broadway
Somerville, Massachusetts

Dear Ms. Kim:

The enclosed report presents the findings of the hazardous building materials inspection performed at the above-referenced location by Covino Environmental Associates, Inc. (Covino). The inspections were performed on January 8 -- 16 and February 11 and 12, 2014.

Should you have any questions or require additional information, please call at your convenience.

Sincerely,
Covino Environmental Associates. Inc.

Kevin Craig
Project Manager

Enc.

Hazardous Building Materials Inspection Report

Former Powderhouse School
1060 Broadway
Somerville, Massachusetts

Prepared For:

ADD Inc.
311 Summer Street
Boston, Massachusetts

Prepared By:

Covino Environmental Associates, Inc.
300 Wildwood Avenue
Woburn, Massachusetts

Covino Project 14.00046

March 12, 2014

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EXECUTIVE SUMMARY

Covino Environmental Associates, Inc. (Covino) performed an inspection for asbestos-containing materials (ACM), lead paint, mercury-containing devices, polychlorinated biphenyl (PCB) containing caulking compound, and other building materials that may require special handling and/or disposal prior to the planned demolition activities at the former Powderhouse School, 1060 Broadway, Boston, Massachusetts. The asbestos inspection was performed on January 8 – 16 and February 11 and 12, 2014 by Commonwealth of Massachusetts Department of Labor Standards (MA DLS) certified asbestos inspector Mr. Kenneth Roberts (Certification No. AI-000317). Mr. Roberts also performed the PCB testing. The lead paint testing was performed by Mr. David Pesce on January 17, 2014. Mr. Pesce is factory trained in the use of the x-ray fluorescence (XRF) spectrum analyzer. The hazardous/regulated building materials inventory was performed by Mr. David Majeski.

Asbestos Inspection

Representative bulk samples of suspect ACM were collected from accessible interior and exterior building areas and analyzed to determine asbestos content. Limited exploratory demolition methods were used to explore areas with difficult access including behind floor, wall, and ceiling finishes in a number of building areas. Note that additional suspect ACM may be present behind building finishes, within mechanical or electrical components, buried areas, or other otherwise inaccessible areas. Asbestos-containing materials identified during Covino's inspection include the following:

- 12" x 12" brown floor tile and associated mastic
- Caulk on interior wire mesh window
- Brown duct seam sealant
- 6" pipe insulation
- Radiator caulk
- Interior door caulk
- Coating on underside of cement stairs
- Black and pink sink basin coatings
- Caulk on concrete columns
- Roof parapet copper flashing sealant
- Asphalt roofing material
- Exterior louver vent caulk
- Capstone waterproofing black sealant
- Black damp proofing
- Duct rope – like insulation
- Skim coat on concrete columns

All identified ACM must be removed from the building prior to the start of any planned renovation or demolition activities that may disturb the materials. Note that additional suspect ACM may be present in buried areas or otherwise inaccessible building locations. If additional suspect ACM is encountered during demolition activities, then precautions should be taken to prevent disturbance and the material should be tested to determine asbestos content.

Lead Paint Testing

Lead paint testing was performed using an x-ray fluorescence spectrum analyzer (XRF) to determine the lead content of accessible interior and exterior painted building components. The purpose of the lead paint testing is to provide information for compliance with OSHA and US EPA requirements during renovation or demolition activities where painted surfaces will be disturbed.

The lead content of the surfaces tested range from less than the lower limit of quantification for the XRF instrument of less than 0.05 milligrams per square centimeter of sampled surface area (mg/cm^2) to 2.9 mg/cm^2. Demolition waste containing lead must be characterized to determine disposal requirements (as construction debris or as hazardous waste). This can be accomplished by performing the toxicity characteristic leaching procedure (TCLP) or using other methods that accurately characterize the lead content of such waste.

Hazardous/Regulated Building Materials

Various potentially hazardous/regulated building materials were observed at the site that may contain mercury, liquid polychlorinated biphenyl (PCB), chlorofluorocarbons (CFCs), volatile organic compounds (VOCs) or other hazardous substances that may require special handling and disposal prior to renovation or building demolition. Covino visually inspected accessible building areas and observed various items including, but not limited to, fluorescent lamps and ballasts, transformers, batteries, oils, lubricants, cleaning supplies, caulking compound and other miscellaneous items.

All potentially hazardous/regulated items must be removed from the building prior structural demolition and either recycled or disposed in accordance with MA DEP hazardous waste regulations, 310 CMR 30.000.

Non-Liquid Polychlorinated Biphenyls

Covino performed limited bulk sampling of caulk from selected areas of the building to determine PCB content in accordance with EPA Method SW846 8081/8082 following extraction by Method 3540C. Analytical results indicate that PCB content ranged from <0.182 to 66,85 parts per million

(ppm). Additional sampling will be required for compliance with the EPA's PCB regulations under the Toxic Substances Control Act (TSCA), 40 CFR 761.

1.0 INSPECTION DESCRIPTION

1.1 Introduction

Covino Environmental Associates, Inc. (Covino) performed an inspection for asbestos-containing materials (ACM), lead paint, mercury-containing devices, liquid polychlorinated biphenyl (PCB) containing electrical equipment, and other building materials/items that may require special handling and/or disposal prior to the planned demolition activities at the former Powderhouse School located at 1060 Broadway, Somerville, Massachusetts. The asbestos inspection was performed on January 8 – 16 and February 11 and 12, 2014 by Commonwealth of Massachusetts Department of Labor Standards (MA DLS) certified asbestos inspector Mr. Kenneth Roberts (Certification No. AI-000317). The lead paint testing was performed by Mr. David Pesce on January 17, 2014. Mr. Pesce is factory trained in the use of the x-ray fluorescence (XRF) spectrum analyzer. The hazardous/regulated building materials inventory was performed by Mr. David Majeski.

1.2 Purpose and Scope of Work

An asbestos inspection was performed to determine the locations and approximate quantities of suspect ACM that are in the building prior to the start of renovation and demolition activities. Covino performed an inspection of accessible suspect materials within the building to determine the location, type, condition and quantity of ACM, presumed ACM, and otherwise suspect ACM. Bulk samples of suspect ACM were collected and submitted to the Covino laboratory for analysis to determine asbestos content. Limited exploratory demolition methods were used to explore areas with difficult access including behind floor, wall, and ceiling finishes in a number of building areas. Note that additional suspect ACM may be present behind building finishes, within mechanical or electrical components, buried areas, or other otherwise inaccessible areas.

Covino performed testing of representative accessible interior and exterior painted building components to determine lead content using an x-ray fluorescence (XRF) spectrum analyzer.

Covino performed a visual inspection of accessible interior and exterior building areas and noted the presence of additional building materials/items that may require special handling and disposal prior to demolition activities.

1.3 Inspection Procedures

The asbestos inspection was performed using guidelines established by the EPA guidance document "Guidance for Controlling Asbestos-Containing Materials in Buildings" (EPA 5605-85/024), 40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAP), Paragraph 61.145, Standard for Demolition and Renovation, EPA AHERA 40 CFR 763 and OSHA 1926.1101 regulations.

Visual inspection of readily accessible renovation areas was conducted to identify homogeneous areas of suspect ACM. Surfacing materials such as plaster, skim coat on concrete columns, exterior stucco and coating on the underside of cement stairs, thermal system insulation such as duct, pipe and pipe fitting insulation, and miscellaneous building materials including but not limited to gypsum board and associated joint compound, wall base molding and associated adhesive, floor coverings and associated adhesive, ceiling tiles, sink basin coatings, glazing compound, caulk, ceramic tile grout and associated adhesive and roofing materials were assessed as potential ACM.

Concentrations of lead in paint were measured on site by portable XRF analysis. Lead paint testing was performed to determine the lead content of selected painted building components that may be impacted by demolition activities and may not be used to determine compliance with the Massachusetts Department of Public Health Childhood Lead Poisoning Prevention Program Regulations.

1.4 Analytical Methods

Materials are grouped into homogeneous areas for the purpose of sampling. Homogeneous areas are those that contain suspect ACM that is uniform in texture and color and visually appear identical in every other respect. Materials installed at different times are treated as different homogeneous sampling areas. Bulk samples of suspect ACM were collected and submitted to Covino's in-house laboratory for analysis for asbestos content. The laboratory bulk sample analysis report is included in Appendix A.

Sample analysis was performed by the Covino laboratory located in Woburn, Massachusetts, using Polarized Light Microscopy with Dispersion Staining (PLM/DS) in accordance with the United States Environmental Protection Agency (US EPA) "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116. The Covino laboratory is accredited through the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (No. 101781-0). The Covino laboratory's Massachusetts Analytical Laboratory certification number is AA000006.

The lead content of painted surfaces was determined using a portable XRF spectrum analyzer (NITON XLp 303AW; Serial No. 24687). The XRF spectrum analyzer uses a radioactive source to excite the electrons of lead atoms (if present) in paints. As the lead atom electrons return to their normal state, they emit X-rays, which are counted by the XRF spectrum analyzer. This data is processed and the results are converted to milligrams of lead per square centimeter (mg/cm^2) of sampled surface area. Lead paint testing results are included in Appendix B.

For no-liquid PCB analysis, bulk samples were collected using hand tools and placed into labeled glass jars and delivered via courier to Spectrum Analytical, Inc. located in Agawam, Massachusetts. The samples were analyzed by gas chromatography in accordance with United States Environmental Protection Agency (EPA) Method SW846 8082 following preparation by EPA Method SW846-3540C. The Spectrum Analytical, Inc. laboratory report is included in Appendix E.

2.0 ASBESTOS INSPECTION RESULTS

2.1 Summary of Observed Asbestos-Containing Materials

The US EPA defines ACM as any material that contains greater than one percent asbestos. The Massachusetts Department of Environmental Protection (DEP) defines ACM as any material that contains greater than or equal to one percent asbestos. A summary of observed suspect ACM, location, approximate quantity and laboratory analysis results are presented in the following summary tables.

Summary of Suspect Asbestos-Containing Materials
Former Powderhouse School
1060 Broadway, Somerville, Massachusetts
January 8 – 16 and February 11 and 12, 2014

Material Description	Approximate Location(s)	Approximate Quantity	Analysis Result
12" x 12" blue floor tile and associated mastic	Various classrooms and hallways	NQ	NAD
Lightweight flooring concrete	S-4 entranceway	NQ	NAD
Exterior metal window insert caulk	N/E entranceway	NQ	NAD
Exterior metal window frame caulk	Various locations	NQ	NAD

Summary of Suspect Asbestos-Containing Materials
Former Powderhouse School
1060 Broadway, Somerville, Massachusetts
January 8 – 16 and February 11 and 12, 2014

Material Description	Approximate Location(s)	Approximate Quantity	Analysis Result
12" x 12" brown floor tile and associated mastic	**First level: hallways, cafeteria/auditorium, classrooms Second level: hallways and Rooms 201-208 Third level: hallways and Room 329**	**28,000 sq ft**	**Positive 10%-12% Chrysotile Asbestos**
Exterior overhang stucco	Various exterior locations	NQ	NAD
1' x 1' spline ceiling tile	Hallways throughout building	NQ	NAD
Gray floor leveling compound	**Hallways throughout building**	**28,000 sq ft**	**NAD[1]**
Compressed board filler on CMU block wall	Throughout building	NQ	NAD
White wall paneling adhesive	Cafeteria entranceway	NQ	NAD
Interior wire mesh window glazing compound	Throughout building	NQ	NAD
Interior wire mesh window caulking compound	**Located at entrances to classrooms and various hallway locations**	**4,000 ln ft**	**Positive 2%-8% Chrysotile Asbestos**
6" x 6" ceramic floor tile grout and bedding mortar	Kitchen areas	NQ	NAD
Stage curtains	Room 176	NQ	NAD
Gypsum wallboard and associated joint compound	Throughout building	NQ	NAD
½" diameter mudded pipe fitting insulation	Throughout building	NQ	NAD
Canvas duct covering	Room 180	NQ	NAD

[1] Floor leveling compound is positive for asbestos due to association with the mastic beneath the 12' x 12' brown floor tile. The floor leveling compound was observed in two locations on the first floor hallway, but may be present in additional locations throughout the building.

Summary of Suspect Asbestos-Containing Materials
Former Powderhouse School
1060 Broadway, Somerville, Massachusetts
January 8 – 16 and February 11 and 12, 2014

Material Description	Approximate Location(s)	Approximate Quantity	Analysis Result
Brown duct seam sealant	**Dishwashing area (Room 178)**	**200 sq ft**	**Positive 10% Chrysotile Asbestos**
Plaster ceiling - base and skim coats	Bathroom areas	NQ	NAD
Red fire stop putty	Electrical room areas	NQ	NAD
Interior door insulation	Room 179	NQ	NAD
Plaster wall – base and skim coats	Various locations throughout building	NQ	NAD
Interior perimeter metal window glazing compound	Rooms 120 and 121B	NQ	NAD
6" diameter pipe insulation	**Exterior at electric vaults and interior of Room 108**	**60 ln ft**	**Positive 10% Chrysotile Asbestos**
Rough finish plaster ceiling – base and skim coats	S/E area of first Floor	NQ	NAD
18" x 18" rubber floor tile adhesive	Room 116	NQ	NAD
3" diameter pipe fitting insulation	Throughout building	NQ	NAD
Radiator caulk	**Radiator located in first floor hallway adjacent to Room 103**	**15 ln ft**	**Positive 3% Chrysotile Asbestos**
Interior door caulk	**Throughout building**	**250 Doors**	**Positive 4% Chrysotile Asbestos**

Summary of Suspect Asbestos-Containing Materials
Former Powderhouse School
1060 Broadway, Somerville, Massachusetts
January 8 – 16 and February 11 and 12, 2014

Material Description	Approximate Location(s)	Approximate Quantity	Analysis Result
½" x ½" ceramic floor tile grout and associated bedding mortar	Bathroom areas	NQ	NAD
2" x 2" ceramic floor tile grout and associated bedding mortar	Bathroom areas	NQ	NAD
Coating on underside of cement stairs	**Stairwells throughout building**	**6,000 sq ft**	**Positive 5% Chrysotile Asbestos**
Black/pink sink basin coating	**Various classrooms throughout building**	**30 sinks**	**Positive 6%-12% Chrysotile Asbestos**
12" x 12" light blue floor tile and associated mastic	Various classrooms and hallways throughout building	NQ	NAD
Carpet adhesive	Various classrooms throughout building	NQ	NAD
12" x 12" gray with white floor tile and associated mastic	Room 121D	NQ	NAD
12" x 12" tan with brown floor tile and associated mastic	Various classrooms throughout building	NQ	NAD
Compressed partition wall board	Room 121 D	NQ	NAD
Plaster wall, Type II – base and skim coats	Rear of Room 136	NQ	NAD
Column caulk	**Throughout building**	**4,000 ln ft**	**Positive NAD-2% Chrysotile Asbestos**
Pipe/vent penetration sealant	Roof	NQ	NAD
Capstone sealant	Roof	NQ	NAD

Summary of Suspect Asbestos-Containing Materials
Former Powderhouse School
1060 Broadway, Somerville, Massachusetts
January 8 – 16 and February 11 and 12, 2014

Material Description	Approximate Location(s)	Approximate Quantity	Analysis Result
Underside of parapet, copper flashing sealant	**Roof**	**1,500 sq ft**	**Positive 15% Chrysotile Asbestos**
Asphalt built-up roofing material	**Perimeter**	**10,000 sq ft**	**Positive 12% Chrysotile Asbestos**
Asphalt built-up roofing material	Roof	NQ	NAD
Skylight window glazing compound	West side of third floor roof	NQ	NAD
Exterior louvre vent caulk	**Roof and ground levels**	**20 ln ft**	**Positive 10% Chrysotile Asbestos**
White exterior window caulk	South side of second floor roof	NQ	NAD
Exterior duct covering atop fiberglass insulation	Roof	NQ	NAD
Cement exterior wall slab joint compound	Second floor roof	NQ	NAD
Exterior rooftop access door caulk	Second floor roof	NQ	NAD
Capstone waterproofing black sealant	**North side of second floor roof**	**20 ln ft**	**Positive 12% Chrysotile Asbestos**
Exterior door caulk	Exterior of building	NQ	NAD
Exterior gray door caulk	North side, exterior	NQ	NAD
Black damp proofing inside perimeter CMU block wall	**Interior of perimeter walls throughout building**	**50,000 sq ft**	**Positive 14% Chrysotile Asbestos**

Summary of Suspect Asbestos-Containing Materials
Former Powderhouse School
1060 Broadway, Somerville, Massachusetts
January 8 – 16 and February 11 and 12, 2014

Material Description	Approximate Location(s)	Approximate Quantity	Analysis Result
Padded 6' wall panel adhesive	Gymnasium	NQ	NAD
Rubber flooring adhesive	Gymnasium	NQ	NAD
Duct rope-like insulation	**Room 235**	**20 ln ft**	**Positive 80% Chrysotile Asbestos**
Skim coat on concrete wall	Room 235	NQ	NAD
Acoustical 4' x 8' wall panel black glue daub	Room 236	NQ	NAD
2' x 4' fissured ceiling tile	S-6 hall	NQ	NAD
Partition retractable wall panel	Various locations throughout building	NQ	NAD
Chalkboard black glue daub	Classrooms throughout building	NQ	NAD
Black coating on copper flashing on perimeter walls beneath windows	Various locations throughout building	NQ	NAD
Caulking under perimeter metal windows on CMU block	Various locations throughout building	NQ	NAD
Duct vibration cloth	Room 301	NQ	NAD
12" x 12' white floor tile and associated mastic	Third floor classrooms	NQ	NAD
6" diameter roof drain mudded fitting insulation	Various areas throughout building	NQ	NAD
Adhesive under metal stair treads	Staircases throughout building	NQ	NAD
6' wall base and associated adhesive	Library	NQ	NAD

Summary of Suspect Asbestos-Containing Materials
Former Powderhouse School
1060 Broadway, Somerville, Massachusetts
January 8 – 16 and February 11 and 12, 2014

Material Description	Approximate Location(s)	Approximate Quantity	Analysis Result
Skim coat on concrete columns	**Throughout building**	**16,000 sq ft**	**Positive 3%-8% Chrysotile Asbestos**
Skim coat/paint on concrete beams and CMU walls	Various locations throughout building	NQ	NAD

Table Notes:
sq ft – square feet
ln ft – linear feet
NQ – Not Quantified
NAD - No Asbestos Detected

2.2 Asbestos Removal Cost Estimates

The below table presents approximate quantities of ACM observed at the site and estimates for removal. These estimated removal costs do not include related engineering and air monitoring costs, which typically add ten to fifteen percent to the total cost of abatement, or the cost of replacement materials.

Cost Estimates
Former Powder House School
1060 Broadway, Somerville, Massachusetts

Material	Locations	Estimated Quantities	Removal Cost Estimate
12" x 12" brown floor tile and associated mastic (any floor leveling compound located under floor tile is to be considered ACM due to association with mastic	First Level: Hallways, Cafeteria/Auditorium, Classrooms Second Level: Hallways and Rooms 201-208 Third Level: Hallways and Room 329	28,000 sq ft	$84,000
Caulk on interior wire mesh windows	Located at entrances to Classrooms and various Hallway locations	4,000 ln ft	$20,000

Cost Estimates
Former Powder House School
1060 Broadway, Somerville, Massachusetts

Material	Locations	Estimated Quantities	Removal Cost Estimate
Brown duct seam sealant	First Level, Room 178	200 sq ft	$1,000
6" pipe insulation	Exterior at Electric Vaults and Interior of Room 108 (Electric Room)	60 ln ft	$6,000
Radiator caulk	Radiator located in First Floor S. hallway at Room 103	15 ln ft	$500
Interior door caulk	Interior doors	250 Doors	$10,000
Coating on underside of cement stairs	Stairwells	6,000 sq ft	$60,000
Sink basin coating	Throughout Building	30 Sinks	$3,000
Caulk on columns	Throughout Building	4,000 ln ft	$24,000
Sealant	Parapet wall beneath copper flashing	1,500 ln ft	$10,000
Asphalt roofing material	Perimeter on parapet wall and roof	10,000 sq ft	$40,000
Exterior louver vent caulk	At Second Floor rooftops and Exterior at Ground Level	250 ln ft	$4,000
Black damp proofing	On perimeter CMU block walls	50,000 sq ft	$800,000
Black sealant	On capstone on Second Floor Roof	20 ln ft	$3,000
Rope insulation/sealant	Room 235 around duct	20 ln ft	$2,000
Skim coat on concrete columns	Interior columns	16,000 sq ft	$250,000
Total Asbestos Removal Cost Estimate			**$1,317,500**

2.3 Asbestos Recommendations

Covino recommends the following:

1. Prior to the start of any renovation or demolition activities, a Massachusetts DLS certified Project Designer should prepare a work plan for removal of all ACM that may be disturbed by renovation or demolition activities.

2. The US EPA Regulation 40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAP), Paragraph 61.145, Standard for Demolition and Renovation, requires that all regulated ACM be removed from a building prior to the start of renovation or demolition activities if the materials may be disturbed by these activities. Removal of ACM must be performed by a licensed asbestos removal contractor in accordance with federal, state, and local regulations.

3. Non-friable asphalt-based roofing materials were identified on the building. Non-friable asphalt-based roofing materials do not represent an asbestos hazard unless disturbed by mechanical cutting, grinding, etc. Massachusetts regulations allow for the removal and disposal of asphalt based roofing products as general construction waste by demolition or roofing contractors provided certain work practice requirements are followed (DEP Policy #BWP-96-012). Asbestos containing asphalt based roofing materials can't be recycled and must be disposed of in a Massachusetts DEP approved landfill.

4. Additional suspect materials may be present in inaccessible areas such as within mechanical and electrical components, behind floor, wall, and ceiling finishes, inside chases and soffits, buried areas, etc. If additional suspect materials are encountered during building maintenance, renovation, or demolition activities, then precautions should be taken to prevent disturbance of the suspect materials and bulk sampling and laboratory analysis should be performed to determine the materials asbestos content.

3.0 OTHER POTENTIALLY HAZARDOUS MATERIALS

Covino performed a visual inspection in representative, readily accessible interior areas for suspect mercury containing devices and suspect liquid polychlorinated biphenyl (PCB) containing electrical components. Note that sampling and laboratory analysis was not performed to confirm our visual observations for mercury and PCB or other potentially hazardous building materials, except for lead paint, which was tested in the field using a portable XRF analyzer.

3.1 Mercury

Fluorescent lamps are present throughout the buildings and are assumed to contain mercury. All suspect mercury containing devices should be removed from the buildings prior to the start of renovation and demolition activities that may disturb these devices. Mercury containing devices such as thermostats and lamps that are removed from the buildings should be treated by retort and distillation processes to recover and recycle the elemental mercury at an EPA permitted facility.

Fluorescent lamps should be stored in containers specially designed for the intact storage of fluorescent lamps. Do not break fluorescent lamps. Label each storage box with the date that lamps were first placed in the box. Properly packaged fluorescent lamps may be stored for up to one year in a secure building location. Dispose of spent lamps at an authorized recycler, hazardous waste transporter, or other universal waste handler within one year of the date marked on the storage containers. All observed light fixtures and mercury switches are listed in Appendix C.

3.2 Polychlorinated Biphenyl (PCB)

A visual inspection of electrical equipment/components was performed to identify light ballasts, switchgear components or other items that may contain suspect liquid PCB. Ballasts and transformers were observed in the buildings or at the site and should be treated as containing PCBs until proven otherwise.

3.3 Additional Hazardous Materials

Covino noted the presence of other hazardous building materials or stored items that may require special handling and/or disposal prior to demolition.

Additional building materials observed that require special handling prior to building renovation and demolition activities include white goods containing refrigerants, electronics and cathode ray tubes (CRTs), trash compactor fluids, compressor fluids, and miscellaneous chemicals and stored items.

White goods containing refrigerants (refrigeration units, air conditioning units, and associated compressors) were observed in the building. White goods are banned from disposal by the Massachusetts DEP. Refrigerants are required to be removed from appliances in accordance with EPA protocols.

Miscellaneous stored items, including aerosol products, paint containers, floor cleaners, floor strippers and waxes, and pesticides were observed throughout the buildings. These items should be removed from the building prior to renovation and demolition activities, properly stored and evaluated for proper disposal.

3.4 Lead Paint

Testing for lead paint was performed on representative interior and exterior painted surfaces. The lead content of painted surfaces was determined using a portable XRF spectrum analyzer. The results of the XRF testing are presented in Appendix B in milligrams of lead per square centimeter (mg/cm^2) of sampled surface area. XRF testing results indicate that levels of lead on the surfaces tested range from less than 0.05 mg/cm^2 (the lower limit of quantification of the XRF) to 2.9 mg/cm^2.

The employer of workers who disturb or remove lead paint must comply with OSHA Standard 29 CFR 1926.62 - Lead. This applies to all construction work, including demolition, where an employee may be occupationally exposed to lead. This standard does not establish a minimum threshold for the lead content, below which an initial exposure assessment is not required. An initial exposure assessment is required for each renovation and demolition activity that will disturb lead. This standard also contains additional requirements concerning the disturbance or removal of lead.

Debris containing lead generated from demolition activities must be characterized to determine disposal requirements (construction debris or hazardous waste). This can be accomplished by performing the characteristic leachate procedure (TCLP) or using other methods, which accurately characterize the waste.

3.5 Non-Liquid PCBs

The PCB analytical results in the attached laboratory report are presented in concentration units of micrograms PCB per kilogram of the sample material (ug/kg). These concentration units are equivalent to 0.001 parts of PCB per million parts of the sample material, by weight (ppm). The results summarized in the table below are presented in concentration units of milligrams of PCBs per kilograms of material (ppm), which equals parts per million.

Former Powderhouse School
1060 Broadway, Somerville, Massachusetts
February 11, 2014

Lab ID	Sample Description	Results Parts per million (ppm)
SB84669-01	Exterior caulk around door frame	Aroclor 1016 - BRL (< 0.182 ppm) Aroclor 1221 - BRL (<0.182 ppm) Aroclor 1232 - BRL (<0.182 ppm) Aroclor 1242 - BRL (<0.182 ppm) Aroclor 1248 - BRL (<0.182 ppm) Aroclor 1254 - BRL (<0.182 ppm) Aroclor 1260 - BRL (<0.182 ppm) Aroclor 1262 - BRL (<0.182 ppm) Aroclor 1268 - BRL (<0.182 ppm)
SB84669-02	Exterior caulk around glass door frame	Aroclor 1016 - BRL (< 0.159 ppm) Aroclor 1221 - BRL (< 0.159 ppm) Aroclor 1232 - BRL (< 0.159 ppm) Aroclor 1242 - BRL (< 0.159 ppm) **Aroclor 1248 - 1.05 ppm** **Aroclor 1254 - 1.69 ppm** Aroclor 1260 - BRL (< 0.159 ppm) Aroclor 1262 - BRL (< 0.159 ppm) Aroclor 1268 - BRL (< 0.159 ppm)
SB84669-03	Interior caulk around door frame	Aroclor 1016 - BRL (< 0.18 ppm) Aroclor 1221 - BRL (< 0.18 ppm) Aroclor 1232 - BRL (< 0.18 ppm) Aroclor 1242 - BRL (< 0.18 ppm) **Aroclor 1248 – 0.839 ppm** **Aroclor 1254 – 0.18 ppm** Aroclor 1260 - BRL (< 0.18 ppm) Aroclor 1262 - BRL (< 0.18 ppm) Aroclor 1268 - BRL (< 0.18 ppm)
SB84669-04	Exterior caulk around door frame	Aroclor 1016 - BRL (< 0.169 ppm) Aroclor 1221 - BRL (< 0.169 ppm) Aroclor 1232 - BRL (< 0.169 ppm) Aroclor 1242 - BRL (< 0.169 ppm) **Aroclor 1248 – 0.685 ppm** Aroclor 1254 - BRL (< 0.169 ppm) Aroclor 1260 - BRL (< 0.169 ppm) Aroclor 1262 - BRL (< 0.169 ppm) Aroclor 1268 - BRL (< 0.169 ppm)

Former Powderhouse School
1060 Broadway, Somerville, Massachusetts
February 11, 2014

Lab ID	Sample Description	Results Parts per million (ppm)
SB84669-05	Exterior caulk around window frame	Aroclor 1016 - BRL (< 0.169 ppm) Aroclor 1221 - BRL (< 0.169 ppm) Aroclor 1232 - BRL (< 0.169 ppm) Aroclor 1242 - BRL (< 0.169 ppm) Aroclor 1248 - BRL (< 0.169 ppm) **Aroclor 1254 – 0.414 ppm** Aroclor 1260 - BRL (< 0.169 ppm) Aroclor 1262 - BRL (< 0.169 ppm) Aroclor 1268 - BRL (< 0.169 ppm)
SB84669-06	Exterior caulk around vent	Aroclor 1016 - BRL (< 0.177 ppm) Aroclor 1221 - BRL (< 0.177 ppm) Aroclor 1232 - BRL (< 0.177 ppm) Aroclor 1242 - BRL (< 0.177 ppm) **Aroclor 1248 – 1.51 ppm** **Aroclor 1254 – 0.743 ppm** Aroclor 1260 - BRL (< 0.177 ppm) Aroclor 1262 - BRL (< 0.177 ppm) Aroclor 1268 - BRL (< 0.177 ppm)
SB84669-07	Exterior caulk on capstone	Aroclor 1016 - BRL (< 0.169 ppm) Aroclor 1221 - BRL (< 0.169 ppm) Aroclor 1232 - BRL (< 0.169 ppm) Aroclor 1242 - BRL (< 0.169 ppm) **Aroclor 1248 – 24.6 ppm** **Aroclor 1254 – 34.4 ppm** **Aroclor 1260 – 7.85 ppm** Aroclor 1262 - BRL (< 0.169 ppm) Aroclor 1268 - BRL (< 0.169 ppm)
SB84669-08	Exterior caulk around cement exterior panels	Aroclor 1016 - BRL (< 0.831 ppm) Aroclor 1221 - BRL (< 0.831 ppm) Aroclor 1232 - BRL (< 0.831 ppm) Aroclor 1242 - BRL (< 0.831 ppm) Aroclor 1248 - BRL (< 0.831 ppm) Aroclor 1254 - BRL (< 0.831 ppm) Aroclor 1260 - BRL (< 0.831 ppm) Aroclor 1262 - BRL (< 0.831 ppm) Aroclor 1268 - BRL (< 0.831 ppm)

Former Powderhouse School
1060 Broadway, Somerville, Massachusetts
February 11, 2014

Lab ID	Sample Description	Results Parts per million (ppm)
SB84669-09	Exterior caulk around window frame	Aroclor 1016 - BRL (< 0.164 ppm) Aroclor 1221 - BRL (< 0.164 ppm) Aroclor 1232 - BRL (< 0.164 ppm) Aroclor 1242 - BRL (< 0.164 ppm) **Aroclor 1248 – 1.34 ppm** **Aroclor 1254 – 2.8 ppm** Aroclor 1260 - BRL (< 0.164 ppm) Aroclor 1262 - BRL (< 0.164 ppm) Aroclor 1268 - BRL (< 0.164 ppm)
SB84669-10	Interior caulk around door frame in hallway	Aroclor 1016 - BRL (< 0.165 ppm) Aroclor 1221 - BRL (< 0.165 ppm) Aroclor 1232 - BRL (< 0.165 ppm) Aroclor 1242 - BRL (< 0.165 ppm) **Aroclor 1248 – 2.53 ppm** **Aroclor 1254 – 0.684 ppm** Aroclor 1260 - BRL (< 0.165 ppm) Aroclor 1262 - BRL (< 0.165 ppm) Aroclor 1268 - BRL (< 0.165 ppm)

Table Notes:
BRL – Below Reporting Limit – Analyte not detected at or above the reporting limit

The United States Environmental Protection Agency (US EPA) has established PCB decontamination standards, procedures and requirements for PCB spill cleanup under the Toxic Substances Control Act (40 CFR 761.79 and 40 CFR 761.125). Under 40 CFR 761, *Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution In Commerce, and Use Prohibitions,* caulk contains ³ 50 ppm (mg/kg) PCBs were not authorized for use and must be disposed of as PCB bulk product waste according to 40 CFR 761.62. Note that PCBs may leach into adjacent building materials (e.g. masonry, wood, concrete). Any adjacent building material coated or serviced by PCB Bulk Product Waste at the time of designation for disposal may be managed as PCB bulk product waste. If PCBs have leached into the adjacent materials and removed at a later time, then the contaminated materials must be disposed of as PCB remediation waste.

Based on these criteria, sample 07 exceeded the threshold of 50 ppm and is therefore regulated PCB bulk product waste. Removal and disposal of PCB bulk product waste should be performed by a qualified remediation contractor using appropriate work practices, engineering controls, personal

protective equipment, transporter and disposal facility. Note that depending on the method chosen for removal and disposal, notification to the EPA may be required.

Since the PCB concentrations of the other samples collected as part of this project are greater than 1 PPM but less than 50 PPM, they may be disposed of as an excluded PCB product if the following criteria are met:

1. The paint was legally manufactured, processed, distributed in commerce, or used before October 1, 1984; or
2. After October 1, 1984, the paint was manufactured, processed, distributed in commerce, or used pursuant to authority granted by regulation, by exemption petition, by settlement agreement, or pursuant to other approved programs; and
3. The resultant concentration (i.e. below 50 PPM) is not the result of dilution or of leaks or spills of PCBs in concentrations over 50 PPM.

If the three criteria outlined above are not met, then the paint is PCB remediation waste and depending on the method chosen for removal and disposal, notification to the EPA may be required.

Also, additional sampling will be required for compliance with the EPA's PCB regulations under the Toxic Substances Control Act (TSCA), 40 CFR 761 for the building materials adjacent to sample 07.

4.0 LIMITATIONS

Services performed by Covino were conducted in a manner consistent with "state of the industry" practices, recognizing that even the most comprehensive inspection may not detect all suspect materials in a building. Reasonable measures were taken to detect the presence of normally suspect materials within the inspection areas, however, additional materials may be enclosed in solid walls and ceilings, or otherwise may be inaccessible and materials that are not normally suspect may contain hazardous materials. Covino cannot act as an insurer or certify that the site is free of asbestos or other hazardous materials. No expressed or implied representation or warranty is included in our report except that the services were performed within the limit of the scope of work authorized by the client and the encountered site conditions.

Lead testing was performed to evaluate OSHA worker protection requirements and may not be used to determine compliance with the Massachusetts Department of Public Health Childhood Lead Poisoning Prevention Program.

Covino did not disassemble mechanical or electrical equipment and our scope of services for PCB sampling was limited to ten samples of caulk. Sampling and analysis of other suspect materials such as hydraulic fluids, transformer dielectric fluids, paints, adhesives, fiberglass, etc. was not included in our scope of work.

APPENDIX A

ANALYTICAL LABORATORY REPORTS FOR BULK SAMPLES

CLIENT: ADD INC.
311 SUMMER STREET
BOSTON, MA 02210

LOCATION: FORMER POWDERHOUSE SCHOOL
1060 BROADWAY
SOMERVILLE, MASSACHUSETTS

PROJECT: 14.00046 - 407976
DATE RECEIVED: 01/21/14
ANALYZED: 01/23/14 TO 01/27/14
COLLECTED BY: COVINO
COLLECTED: 01/08/14 TO 01/16/14

ANALYTICAL RESULTS OF BULK SAMPLES

LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
407976	FIELD ID: 1A	BL	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" BLUE FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: S-4			
407977	FIELD ID: 1B	BL	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" BLUE FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: LIBRARY			
407978	FIELD ID: 2A	TN	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" BLUE FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	100 %
	LOCATION: S-4			
407979	FIELD ID: 2B	BK	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" BLUE FLOOR TILE MASTIC	N	CELLULOSE	05 %
	LOCATION: LIBRARY		NONFIBROUS MATERIAL	95 %
407980	FIELD ID: 3A	GY	NO ASBESTOS DETECTED	
	MATERIAL: LIGHTWEIGHT FLOORING CONCRETE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: S-4			
407981	FIELD ID: 3B	GY	NO ASBESTOS DETECTED	
	MATERIAL: LIGHTWEIGHT FLOORING CONCRETE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: S-4			
407982	FIELD ID: 4A	GY	NO ASBESTOS DETECTED	
	MATERIAL: EXTERIOR METAL WINDOW INSERT CAULK	N	NONFIBROUS MATERIAL	100 %
	LOCATION: EXTERIOR, NORTHEAST CORNER			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
407983	FIELD ID: 4B	GY	NO ASBESTOS DETECTED	
	MATERIAL: EXTERIOR METAL WINDOW INSERT CAULK	N	NONFIBROUS MATERIAL	100 %
	LOCATION: EXTERIOR, NORTHEAST CORNER			
407984	FIELD ID: 5A	GY	NO ASBESTOS DETECTED	
	MATERIAL: EXTERIOR METAL WINDOW FRAME CAULK	N	NONFIBROUS MATERIAL	100 %
	LOCATION: EXTERIOR, NORTHEAST CORNER			
407985	FIELD ID: 5B	GY	NO ASBESTOS DETECTED	
	MATERIAL: EXTERIOR METAL WINDOW FRAME CAULK	N	NONFIBROUS MATERIAL	100 %
	LOCATION: EXTERIOR, COURTYARD, NORTH			
407986	FIELD ID: 5C	GY	NO ASBESTOS DETECTED	
	MATERIAL: EXTERIOR METAL WINDOW FRAME CAULK	N	NONFIBROUS MATERIAL	100 %
	LOCATION: EXTERIOR, COURTYARD, SOUTH			
407987	FIELD ID: 6A	BR/GY	ASBESTOS - CHRYSOTILE	10 %
	MATERIAL: 12" X 12" BROWN FLOOR TILE	N	NONFIBROUS MATERIAL	90 %
	LOCATION: S-4			
407988	FIELD ID: 6B	BR/GY	ASBESTOS - CHRYSOTILE	10 %
	MATERIAL: 12" X 12" BROWN FLOOR TILE	N	NONFIBROUS MATERIAL	90 %
	LOCATION: 156A			
407989	FIELD ID: 7A	BK	ASBESTOS - CHRYSOTILE	12 %
	MATERIAL: 12" X 12" BROWN FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	88 %
	LOCATION: S-4			
407990	FIELD ID: 7B	BK	ASBESTOS - CHRYSOTILE	12 %
	MATERIAL: 12" X 12" BROWN FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	88 %
	LOCATION: 156A			
407991	FIELD ID: 8A	GY	NO ASBESTOS DETECTED	
	MATERIAL: EXTERIOR OVERHANG STUCCO	N	NONFIBROUS MATERIAL	100 %
	LOCATION: COURTYARD, EAST			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
407992	FIELD ID: 8B	GY	NO ASBESTOS DETECTED	
	MATERIAL: EXTERIOR OVERHANG STUCCO	N	NONFIBROUS MATERIAL	100 %
	LOCATION: COURTYARD, NORTH			
407993	FIELD ID: 8C	GY	NO ASBESTOS DETECTED	
	MATERIAL: EXTERIOR OVERHANG STUCCO	N	NONFIBROUS MATERIAL	100 %
	LOCATION: COURTYARD, WEST			
407994	FIELD ID: 9A	YL	NO ASBESTOS DETECTED	
	MATERIAL: 1' X 1' SPLINE CEILING TILE	N	MINERAL WOOL	65 %
	LOCATION: HALL 120		NONFIBROUS MATERIAL	35 %
407995	FIELD ID: 9B	WH/TN	NO ASBESTOS DETECTED	
	MATERIAL: 1' X 1' SPLINE CEILING TILE	N	MINERAL WOOL	65 %
	LOCATION: HALL 244		NONFIBROUS MATERIAL	35 %
407996	FIELD ID: 9C	WH/GY	NO ASBESTOS DETECTED	
	MATERIAL: 1' X 1' SPLINE CEILING TILE	N	MINERAL WOOL	65 %
	LOCATION: HALL 322		NONFIBROUS MATERIAL	35 %
407997	FIELD ID: 10A	GY/BK	ASBESTOS - CHRYSOTILE	06 %
	MATERIAL: GRAY FLOOR LEVELING COMPOUND	Y	NONFIBROUS MATERIAL	94 %
	LOCATION: HALL 120			
	LAB NOTE: ASBESTOS DETECTED IN BLACK MASTIC.			
407998	FIELD ID: 10B	GY/BK	ASBESTOS - CHRYSOTILE	06 %
	MATERIAL: GRAY FLOOR LEVELING COMPOUND	Y	NONFIBROUS MATERIAL	94 %
	LOCATION: HALL 120			
	LAB NOTE: ASBESTOS DETECTED IN BLACK MASTIC.			
407999	FIELD ID: 11A	BR	NO ASBESTOS DETECTED	
	MATERIAL: COMPRESSED BOARD FILLER ATOP CMU WALL	N	CELLULOSE	98 %
			NONFIBROUS MATERIAL	02 %
	LOCATION: 176			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408000	FIELD ID: 11B	BR	NO ASBESTOS DETECTED	
	MATERIAL: COMPRESSED BOARD FILLER ATOP CMU WALL	N	CELLULOSE	98 %
			NONFIBROUS MATERIAL	02 %
	LOCATION: 214C			
408001	FIELD ID: 11C	BR	NO ASBESTOS DETECTED	
	MATERIAL: COMPRESSED BOARD FILLER ATOP CMU WALL	N	CELLULOSE	98 %
			NONFIBROUS MATERIAL	02 %
	LOCATION: 323D			
408002	FIELD ID: 12A	TN	NO ASBESTOS DETECTED	
	MATERIAL: WHITE WALL PANELING ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: ENTRANCE TO 176			
408003	FIELD ID: 12B	TN	NO ASBESTOS DETECTED	
	MATERIAL: WHITE WALL PANELING ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: ENTRANCE TO 176			
408004	FIELD ID: 13A	GY	NO ASBESTOS DETECTED	
	MATERIAL: INTERIOR WIRE MESH WINDOW GLAZING COMPOUND	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 176			
408005	FIELD ID: 13B	GY	NO ASBESTOS DETECTED	
	MATERIAL: INTERIOR WIRE MESH WINDOW GLAZING COMPOUND	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 121A			
408006	FIELD ID: 13C	GY	NO ASBESTOS DETECTED	
	MATERIAL: INTERIOR WIRE MESH WINDOW GLAZING COMPOUND	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL AT 256			
408007	FIELD ID: 14A	WH	ASBESTOS - CHRYSOTILE	08 %
	MATERIAL: INTERIOR WIRE MESH WINDOW CAULKING COMPOUND	N	CELLULOSE	02 %
			NONFIBROUS MATERIAL	90 %
	LOCATION: 176			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408008	FIELD ID: 14B	TN/GY	ASBESTOS - CHRYSOTILE	02 %
	MATERIAL: INTERIOR WIRE MESH WINDOW CAULKING COMPOUND	N	NONFIBROUS MATERIAL	98 %
	LOCATION: 121A			
408009	FIELD ID: 14C	TN/GY	ASBESTOS - CHRYSOTILE	05 %
	MATERIAL: INTERIOR WIRE MESH WINDOW CAULKING COMPOUND	Y	NONFIBROUS MATERIAL	95 %
	LOCATION: HALL AT 256			
408010	FIELD ID: 15A	GY	NO ASBESTOS DETECTED	
	MATERIAL: 6" X 6" CERAMIC FLOOR TILE GROUT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 179			
408011	FIELD ID: 15B	GY	NO ASBESTOS DETECTED	
	MATERIAL: 6" X 6" CERAMIC FLOOR TILE GROUT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 179			
408012	FIELD ID: 15C	GY	NO ASBESTOS DETECTED	
	MATERIAL: 6" X 6" CERAMIC FLOOR TILE GROUT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 179			
408013	FIELD ID: 16A	GY	NO ASBESTOS DETECTED	
	MATERIAL: 6" X 6" CERAMIC FLOOR TILE BEDDING MORTAR	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 179			
408014	FIELD ID: 16B	GY	NO ASBESTOS DETECTED	
	MATERIAL: 6" X 6" CERAMIC FLOOR TILE BEDDING MORTAR	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 179			
408015	FIELD ID: 16C	GY	NO ASBESTOS DETECTED	
	MATERIAL: 6" X 6" CERAMIC FLOOR TILE BEDDING MORTAR	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 179			
408016	FIELD ID: 17A	BK	NO ASBESTOS DETECTED	
	MATERIAL: STAGE CURTAIN	N	CELLULOSE	99 %
	LOCATION: 176		NONFIBROUS MATERIAL	01 %

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408017	FIELD ID: 17B	BK	NO ASBESTOS DETECTED	
	MATERIAL: STAGE CURTAIN	N	CELLULOSE	99 %
	LOCATION: 176		NONFIBROUS MATERIAL	01 %
408018	FIELD ID: 18A	TN/WH	NO ASBESTOS DETECTED	
	MATERIAL: GYPSUM WALLBOARD	Y	FIBROUS GLASS	02 %
	LOCATION: 177		CELLULOSE	23 %
			NONFIBROUS MATERIAL	75 %
408019	FIELD ID: 18B	TN/WH	NO ASBESTOS DETECTED	
	MATERIAL: GYPSUM WALLBOARD	Y	FIBROUS GLASS	05 %
	LOCATION: 122		CELLULOSE	25 %
			NONFIBROUS MATERIAL	70 %
408020	FIELD ID: 19A	WH	NO ASBESTOS DETECTED	
	MATERIAL: JOINT COMPOUND	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 177			
408021	FIELD ID: 19B	WH	NO ASBESTOS DETECTED	
	MATERIAL: JOINT COMPOUND	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 122			
408022	FIELD ID: 19C	WH	NO ASBESTOS DETECTED	
	MATERIAL: JOINT COMPOUND	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 156A			
408023	FIELD ID: 19D	WH	NO ASBESTOS DETECTED	
	MATERIAL: JOINT COMPOUND	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 181			
408024	FIELD ID: 19E	WH	NO ASBESTOS DETECTED	
	MATERIAL: JOINT COMPOUND	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 179			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408025	FIELD ID: 20A	GY	NO ASBESTOS DETECTED	
	MATERIAL: 1/2" PIPE, MUDDED FITTING INSULATION	N	FIBROUS GLASS	30 %
	LOCATION: 179		CELLULOSE	10 %
			NONFIBROUS MATERIAL	60 %
408026	FIELD ID: 20B	GY	NO ASBESTOS DETECTED	
	MATERIAL: 1/2" PIPE, MUDDED FITTING INSULATION	N	FIBROUS GLASS	30 %
	LOCATION: INTERIOR WALL CAVITY, 129D		CELLULOSE	10 %
			NONFIBROUS MATERIAL	60 %
408027	FIELD ID: 20C	GY	NO ASBESTOS DETECTED	
	MATERIAL: 1/2" PIPE, MUDDED FITTING INSULATION	N	FIBROUS GLASS	30 %
	LOCATION: S-3		CELLULOSE	07 %
			NONFIBROUS MATERIAL	63 %
408028	FIELD ID: 20D	GY	NO ASBESTOS DETECTED	
	MATERIAL: 1/2" PIPE, MUDDED FITTING INSULATION	N	CELLULOSE	15 %
	LOCATION: 215		MINERAL WOOL	18 %
			NONFIBROUS MATERIAL	67 %
408029	FIELD ID: 20E	GY	NO ASBESTOS DETECTED	
	MATERIAL: 1/2" PIPE, MUDDED FITTING INSULATION	N	CELLULOSE	12 %
	LOCATION: 301		MINERAL WOOL	18 %
			NONFIBROUS MATERIAL	70 %
408030	FIELD ID: 21A	TN	NO ASBESTOS DETECTED	
	MATERIAL: CANVAS DUCT COVERING	N	CELLULOSE	98 %
	LOCATION: 180		NONFIBROUS MATERIAL	02 %

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408031	FIELD ID: 21B	TN	NO ASBESTOS DETECTED	
	MATERIAL: CANVAS DUCT COVERING	N	CELLULOSE	98 %
	LOCATION: 180		NONFIBROUS MATERIAL	02 %
408032	FIELD ID: 21C	TN	NO ASBESTOS DETECTED	
	MATERIAL: CANVAS DUCT COVERING	N	FIBROUS GLASS	15 %
	LOCATION: 180		CELLULOSE	80 %
			NONFIBROUS MATERIAL	05 %
408033	FIELD ID: 22A	BR	ASBESTOS - CHRYSOTILE	10 %
	MATERIAL: BROWN DUCT SEAM SEALANT	N	NONFIBROUS MATERIAL	90 %
	LOCATION: 178			
408034	FIELD ID: 22B	BR	ASBESTOS - CHRYSOTILE	10 %
	MATERIAL: BROWN DUCT SEAM SEALANT	N	NONFIBROUS MATERIAL	90 %
	LOCATION: 178			
408035	FIELD ID: 23A	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER CEILING, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 178			
408036	FIELD ID: 23B	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER CEILING, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 178			
408037	FIELD ID: 23C	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER CEILING, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 168A			
408038	FIELD ID: 23D	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER CEILING, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 218			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408039	FIELD ID: 23E	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER CEILING, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 3RD FLOOR, S-1			
408040	FIELD ID: 23F	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER CEILING, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 313			
408041	FIELD ID: 24A	WH	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER CEILING, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 178			
408042	FIELD ID: 24B	WH	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER CEILING, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 178			
408043	FIELD ID: 24C	WH	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER CEILING, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 168A			
408044	FIELD ID: 24D	WH	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER CEILING, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 218			
408045	FIELD ID: 24E	WH	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER CEILING, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 3RD FLOOR, S-1			
408046	FIELD ID: 24F	WH	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER CEILING, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 313			
408047	FIELD ID: 25A	RD	NO ASBESTOS DETECTED	
	MATERIAL: RED FIRESTOP	N	SYNTHETIC	12 %
	LOCATION: 180		NONFIBROUS MATERIAL	88 %

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408048	FIELD ID: 25B	RD	NO ASBESTOS DETECTED	
	MATERIAL: RED FIRESTOP	N	SYNTHETIC	12 %
	LOCATION: 180		NONFIBROUS MATERIAL	88 %
408049	FIELD ID: 26A	WH	NO ASBESTOS DETECTED	
	MATERIAL: INTERIOR DOOR INSULATION	N	CELLULOSE	20 %
	LOCATION: 179		NONFIBROUS MATERIAL	80 %
408050	FIELD ID: 26B	WH	NO ASBESTOS DETECTED	
	MATERIAL: INTERIOR DOOR INSULATION	N	CELLULOSE	20 %
	LOCATION: 179		NONFIBROUS MATERIAL	80 %
408051	FIELD ID: 27A	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 181			
408052	FIELD ID: 27B	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 136			
408053	FIELD ID: 27C	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 136			
408054	FIELD ID: 28A	WH	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 181			
408055	FIELD ID: 28B	WH	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 136			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408056	FIELD ID: 28C	WH	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 136			
408057	FIELD ID: 29A	BK	NO ASBESTOS DETECTED	
	MATERIAL: INTERIOR PERIMETER METAL WINDOW GLAZING COMPOUND	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 120			
408058	FIELD ID: 29B	BK	NO ASBESTOS DETECTED	
	MATERIAL: INTERIOR PERIMETER METAL WINDOW GLAZING COMPOUND	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 121B			
408059	FIELD ID: 30A	GY	ASBESTOS - AMOSITE	20 %
	MATERIAL: 6" PIPE INSULATION	N	NONFIBROUS MATERIAL	80 %
	LOCATION: ELEC ROOM 108			
408060	FIELD ID: 30B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 6" PIPE INSULATION	N/A		
	LOCATION: 108			
408061	FIELD ID: 31A	GY	NO ASBESTOS DETECTED	
	MATERIAL: 6" PIPE FITTING INSULATION	N	FIBROUS GLASS	30 %
	LOCATION: 108		CELLULOSE	10 %
			NONFIBROUS MATERIAL	60 %
408062	FIELD ID: 31B	GY	NO ASBESTOS DETECTED	
	MATERIAL: 6" PIPE FITTING INSULATION	N	FIBROUS GLASS	35 %
	LOCATION: 108		NONFIBROUS MATERIAL	65 %
408063	FIELD ID: 32A	GY	NO ASBESTOS DETECTED	
	MATERIAL: ROUGH FINISH PLASTER CEILING, BASE COAT	N	HAIR	< 1 %
			NONFIBROUS MATERIAL	100 %
	LOCATION: 101			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408064	FIELD ID: 32B	GY	NO ASBESTOS DETECTED	
	MATERIAL: ROUGH FINISH PLASTER CEILING, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 116			
408065	FIELD ID: 33A	N/A	INSUFFICIENT SAMPLE	
	MATERIAL: ROUGH FINISH PLASTER CEILING, SKIM COAT	N/A		
	LOCATION: 101			
408066	FIELD ID: 33B	TN	NO ASBESTOS DETECTED	
	MATERIAL: ROUGH FINISH PLASTER CEILING, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 116			
408067	FIELD ID: 34A	GY	NO ASBESTOS DETECTED	
	MATERIAL: 18" X 18" RUBBER FLOOR TILE ADHESIVE	N	CELLULOSE	07 %
	LOCATION: 116		NONFIBROUS MATERIAL	93 %
408068	FIELD ID: 34B	GY/RD	NO ASBESTOS DETECTED	
	MATERIAL: 18" X 18" RUBBER FLOOR TILE ADHESIVE	Y	CELLULOSE	06 %
	LOCATION: 116		NONFIBROUS MATERIAL	94 %
408069	FIELD ID: 35A	GY	NO ASBESTOS DETECTED	
	MATERIAL: 3" PIPE FITTING INSULATION	N	FIBROUS GLASS	30 %
	LOCATION: 110		CELLULOSE	10 %
			NONFIBROUS MATERIAL	60 %
408070	FIELD ID: 35B	GY	NO ASBESTOS DETECTED	
	MATERIAL: 3" PIPE FITTING INSULATION	N	FIBROUS GLASS	30 %
	LOCATION: 171		CELLULOSE	10 %
			NONFIBROUS MATERIAL	60 %

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408071	FIELD ID: 35C	GY	NO ASBESTOS DETECTED	
	MATERIAL: 3" PIPE FITTING INSULATION	N	MINERAL WOOL	20 %
	LOCATION: 147		NONFIBROUS MATERIAL	80 %
408072	FIELD ID: 36A	GY	ASBESTOS - CHRYSOTILE	03 %
	MATERIAL: RADIATOR CAULK	N	NONFIBROUS MATERIAL	97 %
	LOCATION: 116			
408073	FIELD ID: 36B	GY	ASBESTOS - CHRYSOTILE	03 %
	MATERIAL: RADIATOR CAULK	N	NONFIBROUS MATERIAL	97 %
	LOCATION: 116			
408074	FIELD ID: 37A	GY	ASBESTOS - CHRYSOTILE	04 %
	MATERIAL: INTERIOR DOOR CAULK	N	NONFIBROUS MATERIAL	96 %
	LOCATION: 116			
408075	FIELD ID: 37B	GY	ASBESTOS - CHRYSOTILE	04 %
	MATERIAL: INTERIOR DOOR CAULK	N	NONFIBROUS MATERIAL	96 %
	LOCATION: 218			
408076	FIELD ID: 38A	GY	NO ASBESTOS DETECTED	
	MATERIAL: 1/2" X 1/2" CERAMIC FLOOR TILE GROUT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BASEMENT, BOY'S ROOM			
408077	FIELD ID: 38B	GY	NO ASBESTOS DETECTED	
	MATERIAL: 1/2" X 1/2" CERAMIC FLOOR TILE GROUT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BASEMENT, BOY'S ROOM			
408078	FIELD ID: 38C	GY	NO ASBESTOS DETECTED	
	MATERIAL: 1/2" X 1/2" CERAMIC FLOOR TILE GROUT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BASEMENT, GIRL'S ROOM			
408079	FIELD ID: 39A	GY	NO ASBESTOS DETECTED	
	MATERIAL: 1/2" X 1/2" CERAMIC FLOOR TILE BEDDING MORTAR	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BASEMENT, BOY'S ROOM			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408080	FIELD ID: 39B	GY	NO ASBESTOS DETECTED	
	MATERIAL: 1/2" X 1/2" CERAMIC FLOOR TILE BEDDING MORTAR	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BASEMENT, BOY'S ROOM			
408081	FIELD ID: 39C	GY	NO ASBESTOS DETECTED	
	MATERIAL: 1/2" X 1/2" CERAMIC FLOOR TILE BEDDING MORTAR	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BASEMENT, GIRL'S ROOM			
408082	FIELD ID: 40A	WH	NO ASBESTOS DETECTED	
	MATERIAL: 2" X 2" CERAMIC FLOOR TILE GROUT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 114			
408083	FIELD ID: 40B	WH	NO ASBESTOS DETECTED	
	MATERIAL: 2" X 2" CERAMIC FLOOR TILE GROUT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 114			
408084	FIELD ID: 40C	WH	NO ASBESTOS DETECTED	
	MATERIAL: 2" X 2" CERAMIC FLOOR TILE GROUT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 114			
408085	FIELD ID: 41A	GY	NO ASBESTOS DETECTED	
	MATERIAL: 2" X 2" CERAMIC FLOOR TILE BEDDING MORTAR	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 114			
408086	FIELD ID: 41B	GY	NO ASBESTOS DETECTED	
	MATERIAL: 2" X 2" CERAMIC FLOOR TILE BEDDING MORTAR	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 114			
408087	FIELD ID: 41C	GY	NO ASBESTOS DETECTED	
	MATERIAL: 2" X 2" CERAMIC FLOOR TILE BEDDING MORTAR	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 114			
408088	FIELD ID: 42A	GY	ASBESTOS - CHRYSOTILE	05 %
	MATERIAL: COATING ON UNDERSIDE OF CEMENT STAIRS	N	NONFIBROUS MATERIAL	95 %
	LOCATION: S-1, BASEMENT			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408089	FIELD ID: 42B	GY	ASBESTOS - CHRYSOTILE	05 %
	MATERIAL: COATING ON UNDERSIDE OF CEMENT STAIRS	N	NONFIBROUS MATERIAL	95 %
	LOCATION: S-1, BASEMENT			
408090	FIELD ID: 42C	GY	ASBESTOS - CHRYSOTILE	05 %
	MATERIAL: COATING ON UNDERSIDE OF CEMENT STAIRS	N	NONFIBROUS MATERIAL	95 %
	LOCATION: S-6, 2ND FLOOR			
408091	FIELD ID: 43A	BK	ASBESTOS - CHRYSOTILE	06 %
	MATERIAL: BLACK SINK BASIN COATING	N	NONFIBROUS MATERIAL	94 %
	LOCATION: 121A			
408092	FIELD ID: 43B	BK	ASBESTOS - CHRYSOTILE	06 %
	MATERIAL: BLACK SINK BASIN COATING	N	NONFIBROUS MATERIAL	94 %
	LOCATION: 214D			
408093	FIELD ID: 44A	BL	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" LIGHT BLUE FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 121A			
408094	FIELD ID: 44B	BL	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" LIGHT BLUE FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 256			
408095	FIELD ID: 45A	BK	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" LIGHT BLUE FLOOR TILE MASTIC	N	CELLULOSE	05 %
	LOCATION: 121A		NONFIBROUS MATERIAL	95 %
408096	FIELD ID: 45B	BK	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" LIGHT BLUE FLOOR TILE MASTIC	N	CELLULOSE	04 %
	LOCATION: 256		NONFIBROUS MATERIAL	96 %

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408097	FIELD ID: 46A	TN	NO ASBESTOS DETECTED	
	MATERIAL: CARPET ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 113			
408098	FIELD ID: 46B	TN	NO ASBESTOS DETECTED	
	MATERIAL: CARPET ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 233			
408099	FIELD ID: 46C	TN	NO ASBESTOS DETECTED	
	MATERIAL: CARPET ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 307D			
408100	FIELD ID: 47A	GY	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" GRAY W/WHITE FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 121D			
408101	FIELD ID: 47B	GY	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" GRAY W/WHITE FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 121D			
408102	FIELD ID: 48A	TN	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" GRAY W/WHITE FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 121D			
408103	FIELD ID: 48B	TN	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" GRAY W/WHITE FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 121D			
408104	FIELD ID: 49A	TN	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" TAN W/BROWN FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 121D			
408105	FIELD ID: 49B	TN	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" TAN W/BROWN FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 250			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408106	FIELD ID: 50A	TN	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" TAN W/BROWN FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	100 %
	LOCATION:			
408107	FIELD ID: 50B	TN	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" TAN W/BROWN FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	100 %
	LOCATION:			
408108	FIELD ID: 51A	MU	NO ASBESTOS DETECTED	
	MATERIAL: COMPRESSED PETITION WALLBOARD	Y	CELLULOSE	88 %
	LOCATION: 129B		NONFIBROUS MATERIAL	12 %
408109	FIELD ID: 51B	MU	NO ASBESTOS DETECTED	
	MATERIAL: COMPRESSED PETITION WALLBOARD	Y	CELLULOSE	88 %
	LOCATION: 129B		NONFIBROUS MATERIAL	12 %
408110	FIELD ID: 52A	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, TYPE II, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: REAR OF 136			
408111	FIELD ID: 52B	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, TYPE II, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: REAR OF 136			
408112	FIELD ID: 52C	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, TYPE II, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: REAR OF 136			
408113	FIELD ID: 53A	WH	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, TYPE II, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: REAR OF 136			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408114	FIELD ID: 53B	WH	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, TYPE II, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: REAR OF 136			
408115	FIELD ID: 53C	WH	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, TYPE II, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: REAR OF 136			
408116	FIELD ID: 54A	PI	ASBESTOS - CHRYSOTILE	12 %
	MATERIAL: PINK SINK BASIN COATING	N	NONFIBROUS MATERIAL	88 %
	LOCATION: 182			
408117	FIELD ID: 54B	PI	ASBESTOS - CHRYSOTILE	12 %
	MATERIAL: PINK SINK BASIN COATING	N	NONFIBROUS MATERIAL	88 %
	LOCATION: 255			
408118	FIELD ID: 54C	PI	ASBESTOS - CHRYSOTILE	12 %
	MATERIAL: PINK SINK BASIN COATING	N	NONFIBROUS MATERIAL	88 %
	LOCATION: 329			
408119	FIELD ID: 55A	YL/WH/GY	ASBESTOS - CHRYSOTILE	02 %
	MATERIAL: COLUMN CAULK	Y	NONFIBROUS MATERIAL	98 %
	LOCATION: HALL, AT 182			
408120	FIELD ID: 55B	YL/WH	NO ASBESTOS DETECTED	
	MATERIAL: COLUMN CAULK	Y	NONFIBROUS MATERIAL	100 %
	LOCATION: 208			
408121	FIELD ID: 56A	BK	NO ASBESTOS DETECTED	
	MATERIAL: PIPE/VENT PENETRATION SEALANT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: ROOFTOP			
408122	FIELD ID: 56B	BK	NO ASBESTOS DETECTED	
	MATERIAL: PIPE/VENT PENETRATION SEALANT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: ROOFTOP			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408123	FIELD ID: 57A	TN	NO ASBESTOS DETECTED	
	MATERIAL: CAPSTONE SEALANT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: ROOFTOP E			
408124	FIELD ID: 57B	TN	NO ASBESTOS DETECTED	
	MATERIAL: CAPSTONE SEALANT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: ROOFTOP W			
408125	FIELD ID: 59A	BK	ASBESTOS - CHRYSOTILE	15 %
	MATERIAL: UNDERSIDE OF PARAPET COPPER FLASHING SEALANT	N	NONFIBROUS MATERIAL	85 %
	LOCATION: ROOFTOP			
408126	FIELD ID: 59B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: UNDERSIDE OF PARAPET COPPER FLASHING SEALANT	N/A		
	LOCATION: ROOFTOP			
408127	FIELD ID: 60A	MU	ASBESTOS - CHRYSOTILE	12 %
	MATERIAL: EDGE ROOF COMPOSITE	Y	FIBROUS GLASS	03 %
	LOCATION: 3RD FLOOR, E		CELLULOSE	25 %
			NONFIBROUS MATERIAL	60 %
408128	FIELD ID: 60B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: EDGE ROOF COMPOSITE	N/A		
	LOCATION: 3RD FLOOR, W			
408129	FIELD ID: 60C	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: EDGE ROOF COMPOSITE	N/A		
	LOCATION: 3RD FLOOR, N			
408130	FIELD ID: 61A	MU	NO ASBESTOS DETECTED	
	MATERIAL: FIELD ROOF COMPOSITE	Y	FIBROUS GLASS	05 %
	LOCATION: 3RD FLOOR, E		CELLULOSE	25 %
			NONFIBROUS MATERIAL	70 %

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408131	FIELD ID: 61B	MU	NO ASBESTOS DETECTED	
	MATERIAL: FIELD ROOF COMPOSITE	Y	FIBROUS GLASS	05 %
	LOCATION: 3RD FLOOR, W		CELLULOSE	25 %
			NONFIBROUS MATERIAL	70 %
408132	FIELD ID: 61C	MU	NO ASBESTOS DETECTED	
	MATERIAL: FIELD ROOF COMPOSITE	Y	FIBROUS GLASS	05 %
	LOCATION: 2ND FLOOR, N		CELLULOSE	25 %
			NONFIBROUS MATERIAL	70 %
408133	FIELD ID: 62A	WH	NO ASBESTOS DETECTED	
	MATERIAL: SKYLIGHT WINDOW GLAZING COMPOUND	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 3RD FLOOR, ROOF, W			
408134	FIELD ID: 62B	WH	NO ASBESTOS DETECTED	
	MATERIAL: SKYLIGHT WINDOW GLAZING COMPOUND	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 3RD FLOOR, ROOF, W			
408135	FIELD ID: 63A	GY	ASBESTOS - CHRYSOTILE	10 %
	MATERIAL: EXTERIOR LOUVRE VENT CAULK	N	NONFIBROUS MATERIAL	90 %
	LOCATION: 2ND FLR, ROOF, N			
408136	FIELD ID: 63B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: EXTERIOR LOUVRE VENT CAULK	N/A		
	LOCATION: 2ND FLR, ROOF, S			
408137	FIELD ID: 64A	GY	NO ASBESTOS DETECTED	
	MATERIAL: WHITE EXTERIOR WINDOW CAULK	N	WOLLASTONITE	03 %
	LOCATION: 2ND FLOOR, ROOF, S.		NONFIBROUS MATERIAL	97 %
408138	FIELD ID: 64B	GY	NO ASBESTOS DETECTED	
	MATERIAL: WHITE EXTERIOR WINDOW CAULK	N	WOLLASTONITE	03 %
	LOCATION: 2ND FLOOR, ROOF, S.		NONFIBROUS MATERIAL	97 %

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408139	FIELD ID: 65A	BK/TN	NO ASBESTOS DETECTED	
	MATERIAL: EXTERIOR DUCT COVERING ATOP FIBERGLASS INSULATION	Y	FIBROUS GLASS	15 %
			CELLULOSE	45 %
	LOCATION: 2ND FLOOR, ROOF, S.		NONFIBROUS MATERIAL	40 %
408140	FIELD ID: 65B	BK/TN	NO ASBESTOS DETECTED	
	MATERIAL: EXTERIOR DUCT COVERING ATOP FIBERGLASS INSULATION	Y	FIBROUS GLASS	15 %
			CELLULOSE	45 %
	LOCATION: 2ND FLOOR, ROOF, N.		NONFIBROUS MATERIAL	40 %
408141	FIELD ID: 66A	GY	NO ASBESTOS DETECTED	
	MATERIAL: CEMENT EXTERIOR WALL SLAB JOINT CAULK	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 2ND FLR, ROOF, S.			
408142	FIELD ID: 66B	GY	NO ASBESTOS DETECTED	
	MATERIAL: CEMENT EXTERIOR WALL SLAB JOINT CAULK	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 2ND FLR, ROOF, N.			
408143	FIELD ID: 67A	GY	NO ASBESTOS DETECTED	
	MATERIAL: EXTERIOR ROOFTOP ACCESS DOOR CAULK	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 2ND FLOOR, ROOF, N.			
408144	FIELD ID: 67B	GY	NO ASBESTOS DETECTED	
	MATERIAL: EXTERIOR ROOFTOP ACCESS DOOR CAULK	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 2ND FLOOR, ROOF, S.			
408145	FIELD ID: 68A	BK	ASBESTOS - CHRYSOTILE	12 %
	MATERIAL: CAPSTONE WATERPROOFING BLACK SEALANT	N	CELLULOSE	25 %
			NONFIBROUS MATERIAL	63 %
	LOCATION: 2ND FLOOR, ROOF, N.			
408146	FIELD ID: 68B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: CAPSTONE WATERPROOFING BLACK SEALANT	N/A		
	LOCATION: 2ND FLOOR, ROOF, N.			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408147	FIELD ID: 69A	GY	NO ASBESTOS DETECTED	
	MATERIAL: EXTERIOR DOOR CAULK	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BASEMENT, E. SIDE			
408148	FIELD ID: 69B	GY	NO ASBESTOS DETECTED	
	MATERIAL: EXTERIOR DOOR CAULK	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BASEMENT, E. SIDE			
408149	FIELD ID: 70A	GY	NO ASBESTOS DETECTED	
	MATERIAL: EXTERIOR GRAY DOOR CAULK	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BASEMENT, N. SIDE			
408150	FIELD ID: 70B	GY	NO ASBESTOS DETECTED	
	MATERIAL: EXTERIOR GRAY DOOR CAULK	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BASEMENT, N. SIDE			
408151	FIELD ID: 71A	BK	ASBESTOS - CHRYSOTILE	14 %
	MATERIAL: BLACK DAMPROOFING INSIDE PERIMETER CMU BRICK WALL	N	NONFIBROUS MATERIAL	86 %
	LOCATION: 256			
408152	FIELD ID: 71B	BK	ASBESTOS - CHRYSOTILE	14 %
	MATERIAL: BLACK DAMPROOFING INSIDE PERIMETER CMU BRICK WALL	N	NONFIBROUS MATERIAL	86 %
	LOCATION: STAIRS AT 244			
408153	FIELD ID: 71C	BK	ASBESTOS - CHRYSOTILE	14 %
	MATERIAL: BLACK DAMPROOFING INSIDE PERIMETER CMU BRICK WALL	N	NONFIBROUS MATERIAL	86 %
	LOCATION: 307D			
408154	FIELD ID: 72A	TN	NO ASBESTOS DETECTED	
	MATERIAL: GYMNASIUM PADDED 6' WALL PANEL ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 245A			
408155	FIELD ID: 72B	TN	NO ASBESTOS DETECTED	
	MATERIAL: GYMNASIUM PADDED 6' WALL PANEL ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 245B			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408156	FIELD ID: 73A	YL	NO ASBESTOS DETECTED	
	MATERIAL: GYMNASIUM RUBBER FLOORING ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 245A			
408157	FIELD ID: 73B	YL	NO ASBESTOS DETECTED	
	MATERIAL: GYMNASIUM RUBBER FLOORING ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 245B			
408158	FIELD ID: 74A	WH	ASBESTOS - CHRYSOTILE	80 %
	MATERIAL: DUCT ROPE-LIKE INSULATION	N	SYNTHETIC	19 %
	LOCATION: 235		NONFIBROUS MATERIAL	01 %
408159	FIELD ID: 74B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: DUCT ROPE-LIKE INSULATION	N/A		
	LOCATION: 235			
408160	FIELD ID: 75A	WH	NO ASBESTOS DETECTED	
	MATERIAL: SKIM COAT ON CONCRETE WALL	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 235			
408161	FIELD ID: 75B	WH	NO ASBESTOS DETECTED	
	MATERIAL: SKIM COAT ON CONCRETE WALL	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 235			
408162	FIELD ID: 75C	WH	NO ASBESTOS DETECTED	
	MATERIAL: SKIM COAT ON CONCRETE WALL	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 235			
408163	FIELD ID: 76A	BR	NO ASBESTOS DETECTED	
	MATERIAL: ACOUSTICAL 4' X 8' WALL PANEL BLACK GLUE DAUB	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 236			
408164	FIELD ID: 76B	BR	NO ASBESTOS DETECTED	
	MATERIAL: ACOUSTICAL 4' X 8' WALL PANEL BLACK GLUE DAUB	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 236			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408165	FIELD ID: 77A	GY/WH	NO ASBESTOS DETECTED	
	MATERIAL: 2' X 4' FISSURED CEILING TILE	N	FIBROUS GLASS	35 %
	LOCATION: S-6, HALL		CELLULOSE	50 %
			NONFIBROUS MATERIAL	15 %
408166	FIELD ID: 77B	GY/WH	NO ASBESTOS DETECTED	
	MATERIAL: 2' X 4' FISSURED CEILING TILE	N	FIBROUS GLASS	35 %
	LOCATION: S-6, HALL		CELLULOSE	50 %
			NONFIBROUS MATERIAL	15 %
408167	FIELD ID: 78A	YL/TN	NO ASBESTOS DETECTED	
	MATERIAL: PETITION RETRACTABLE WALL PANEL	N	CELLULOSE	98 %
	LOCATION: 231D		NONFIBROUS MATERIAL	02 %
408168	FIELD ID: 78B	TN/RD	NO ASBESTOS DETECTED	
	MATERIAL: PETITION RETRACTABLE WALL PANEL	N	CELLULOSE	98 %
	LOCATION: 231B		NONFIBROUS MATERIAL	02 %
408169	FIELD ID: 79A	BR	NO ASBESTOS DETECTED	
	MATERIAL: CHALK BOARD BLACK GLUE DAUB	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 214D			
408170	FIELD ID: 79B	BR	NO ASBESTOS DETECTED	
	MATERIAL: CHALK BOARD BLACK GLUE DAUB	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 223D			
408171	FIELD ID: 79C	BR	NO ASBESTOS DETECTED	
	MATERIAL: CHALK BOARD BLACK GLUE DAUB	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 238			
408172	FIELD ID: 80A	BK	NO ASBESTOS DETECTED	
	MATERIAL: BLACK COATING ON COPPER FLASHING ON PERIMETER WALLS UNDER WINDOWS	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 307D			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408173	FIELD ID: 80B	BK	NO ASBESTOS DETECTED	
	MATERIAL: BLACK COATING ON COPPER FLASHING ON PERIMETER WALLS UNDER WINDOWS	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 307D			
408174	FIELD ID: 81A	BR	NO ASBESTOS DETECTED	
	MATERIAL: CAULKING UNDER PERIMETER METAL WINDOWS ATOP CMU BRICK	N	SYNTHETIC	10 %
			NONFIBROUS MATERIAL	90 %
	LOCATION: 307D			
408175	FIELD ID: 81B	BR	NO ASBESTOS DETECTED	
	MATERIAL: CAULKING UNDER PERIMETER METAL WINDOWS ATOP CMU BRICK	N	SYNTHETIC	10 %
			NONFIBROUS MATERIAL	90 %
	LOCATION: 307D			
408176	FIELD ID: 82A	BK/WH	NO ASBESTOS DETECTED	
	MATERIAL: DUCT VIBRATION CLOTH	Y	FIBROUS GLASS	40 %
	LOCATION: 301		NONFIBROUS MATERIAL	60 %
408177	FIELD ID: 82B	BK/WH	NO ASBESTOS DETECTED	
	MATERIAL: DUCT VIBRATION CLOTH	Y	FIBROUS GLASS	40 %
	LOCATION: 301		NONFIBROUS MATERIAL	60 %
408178	FIELD ID: 83A	WH	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" WHITE FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 315D			
408179	FIELD ID: 83B	WH	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" WHITE FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 315D			
408180	FIELD ID: 84A	YL	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" WHITE FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 301			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408181	FIELD ID: 84B	YL	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" WHITE FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 301			
408182	FIELD ID: 85A	GY	NO ASBESTOS DETECTED	
	MATERIAL: 6" ROOF DRAIN MUDDED FITTING INSULATION	Y	FIBROUS GLASS	18 %
			CELLULOSE	20 %
	LOCATION: 338		NONFIBROUS MATERIAL	62 %
408183	FIELD ID: 85B	GY	NO ASBESTOS DETECTED	
	MATERIAL: 6" ROOF DRAIN MUDDED FITTING INSULATION	Y	FIBROUS GLASS	20 %
			CELLULOSE	18 %
	LOCATION: 301		NONFIBROUS MATERIAL	62 %
408184	FIELD ID: 85C	GY	NO ASBESTOS DETECTED	
	MATERIAL: 6" ROOF DRAIN MUDDED FITTING INSULATION	Y	FIBROUS GLASS	25 %
			CELLULOSE	10 %
	LOCATION: 301		NONFIBROUS MATERIAL	65 %
408185	FIELD ID: 86A	GN	NO ASBESTOS DETECTED	
	MATERIAL: ADHESIVE UNDER METAL STAIR TREADS	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 195			
408186	FIELD ID: 86B	GN	NO ASBESTOS DETECTED	
	MATERIAL: ADHESIVE UNDER METAL STAIR TREADS	N	NONFIBROUS MATERIAL	100 %
	LOCATION: 195			
408187	FIELD ID: 87A	BK	NO ASBESTOS DETECTED	
	MATERIAL: 6" WALL BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: LIBRARY			
408188	FIELD ID: 87B	BK	NO ASBESTOS DETECTED	
	MATERIAL: 6" WALL BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: LIBRARY			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
408189	FIELD ID: 88A	BR/TN	NO ASBESTOS DETECTED	
	MATERIAL: 6" WALL BASE ADHESIVE	Y	NONFIBROUS MATERIAL	100 %
	LOCATION: LIBRARY			
408190	FIELD ID: 88B	BR/TN	NO ASBESTOS DETECTED	
	MATERIAL: 6" WALL BASE ADHESIVE	Y	NONFIBROUS MATERIAL	100 %
	LOCATION: LIBRARY			

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NOTES: N/A=NOT APPLICABLE

COLOR CODES:												
	BG	BEIGE	BR	BROWN	GY	GRAY	OR	ORANGE	RD	RED	WH	WHITE
	BK	BLACK	CL	CLEAR	MU	MULTI	PI	PINK	SI	SILVER	YL	YELLOW
	BL	BLUE	GN	GREEN	N/A	NONE	PR	PURPLE	TN	TAN	MA	MAROON

LABORATORY CERTIFICATIONS: MA #AA000006 RI #AAL-025C3 VT #AL332367 ME #LB-061
CT #PH-0248

ACCREDITATION: NVLAP #101781-0

DATE OF ISSUE: 03/12/14 APPROVED SIGNATORY: SAMUEL J. COVINO, CIH

THESE SAMPLES WERE ANALYZED BY POLARIZED LIGHT MICROSCOPY WITH DISPERSION STAINING (PLM/DS) ACCORDING TO THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (US EPA) "INTERIM METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK INSULATION SAMPLES" (EPA-600/M4-82-020) AND "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS" (EPA-600/R93/116). THIS METHOD IS CONSIDERED SENSITIVE TO THE PRESENCE OF ASBESTOS AT LESS THAN ONE PERCENT. THIS REPORT RELATES ONLY TO THOSE SAMPLES ANALYZED, AND MAY NOT BE INDICATIVE OF OTHER SIMILAR APPEARING MATERIALS EXISTING AT THIS, OR OTHER SITES.

FLOOR TILES AND RESINOUSLY BOUND MATERIALS ANALYZED BY EPA METHOD 600/R93/116, "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS," MAY YIELD FALSE NEGATIVE RESULTS DUE TO DIFFICULTIES IN ISOLATING SUSPECT FIBERS AND SUBSEQUENTLY IDENTIFYING THEM BENEATH THE MATRIX MATERIAL WHICH ENCAPSULATES THEM. SHEARING DURING THE MANUFACTURE OF VINYL TILE DECREASES THE FIBER SIZE OF THE ASBESTOS COMPONENT; THEREFORE, THE FIBERS MAY NOT BE READILY DETECTABLE USING POLARIZED LIGHT MICROSCOPY. AS A RESULT, LABORATORY ANALYSIS CANNOT ALWAYS BE ACCOMPLISHED USING STANDARD TECHNIQUES. WHEN THE EPA METHOD YIELDS A "NO ASBESTOS DETECTED" RESULT FOR FLOOR TILES AND RESINOUSLY BOUND MATERIALS, COVINO ENVIRONMENTAL ASSOCIATES RECOMMENDS FURTHER ANALYSIS USING SEM OR TEM TECHNIQUES FOR THE IDENTIFICATION OF ASBESTOS.

THE EPA REQUIRES THAT FRIABLE SAMPLES WITH ASBESTOS CONTENTS OF LESS THAN 10%, DETERMINED BY A VISUAL ESTIMATION, BE VERIFIED USING THE POINT COUNTING TECHNIQUE OR OTHERWISE BE ASSUMED TO CONTAIN GREATER THAN 1% ASBESTOS BY THE BUILDING OWNER OR OPERATOR. IF ANALYTICAL RESULTS INDICATE THE PRESENCE OF 1% OR LESS ASBESTOS IN A FRIABLE MATERIAL, THAT MATERIAL MUST BE TREATED AS ASBESTOS-CONTAINING MATERIAL UNLESS THESE QUANTITIES ARE VERIFIED USING THE POINT COUNTING TECHNIQUE. FRIABLE SAMPLES WILL BE POINT-COUNTED UPON REQUEST BY THE CLIENT. POINT COUNTING IS NOT REQUIRED FOR THOSE SAMPLES IN WHICH NO ASBESTOS IS DETECTED DURING ANALYSIS BY PLM.

LAYERED SAMPLES ARE ANALYZED IN THE FOLLOWING MANNER: ALL LAYERS ARE ANALYZED SEPARATELY, AND QUANTITIES ARE REPORTED AS A PERCENTAGE OF THE ENTIRE COMPOSITE SAMPLE.

ALL SAMPLES ARE STORED AT THE COVINO LABORATORY FOR A PERIOD OF THREE MONTHS. FURTHER ANALYSIS OR RETURN OF SAMPLES MUST BE REQUESTED WITHIN THIS THREE-MONTH PERIOD TO GUARANTEE THEIR AVAILABILITY.

COVINO ENVIRONMENTAL ASSOCIATES INC
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APPENDIX B

LEAD PAINT TESTING RESULTS BY XRF ANALYSIS

Lead Paint Testing Results by XRF Analysis
Former Powderhouse School
1060 Broadway
Somerville, Massachusetts
January 17, 2014

Location/Component	Substrate	Results (mg/cm^2)
First Floor		
Hallway		
Wall	Concrete	< 0.05
Door	Wood	< 0.05
Door Frame	Metal	< 0.05
Door	Metal	< 0.05
Fire Extinguisher Box	Metal	< 0.05
Fluorescent Light Holder	Metal	< 0.05
Student Bathroom		
Wall	Concrete	< 0.05
Door	Wood	< 0.05
Door Frame	Metal	< 0.05
Floor	Tile	< 0.05
Ceiling	Gypsum	< 0.05
Room 113		
Wall	Concrete	< 0.05
Window	Metal	< 0.05
Room 129C		
Wall	Concrete	< 0.05
Floor	Vinyl	< 0.05
Column	Concrete	< 0.05
Divider Wall	Wood	< 0.05
Ceiling	Metal	< 0.05
Cabinet Frame	Wood	< 0.05
Cabinet Door	Wood	< 0.05
Room 129A		
Wall	Concrete	< 0.05
Floor	Vinyl	< 0.05
Column	Concrete	< 0.05
Window	Metal	< 0.05
Electrical Panel	Metal	< 0.05
Cabinet Frame	Wood	< 0.05
Fluorescent Light Holder	Metal	< 0.05

Lead Paint Testing Results by XRF Analysis
Former Powderhouse School
1060 Broadway
Somerville, Massachusetts
January 17, 2014

Location/Component	Substrate	Results (mg/cm^2)
Faculty Bathroom		
Wall	Concrete	< 0.05
Door	Wood	< 0.05
Door Frame	Metal	< 0.05
Floor	Tile	< 0.05
Staircase		
Railing	Metal	1.3
Stair Treads	Concrete	< 0.05
Stringer	Concrete	< 0.05
Wall	Concrete	< 0.05
Window	Metal	< 0.05
Door	Metal	< 0.05
Door Frame	Metal	< 0.05
Column	Concrete	< 0.05
Handrail	Metal	1.8
Cafeteria		
Stage	Wood	< 0.05
Columns	Concrete	< 0.05
Door	Metal	< 0.05
Kitchen		
Wall	Concrete	< 0.05
Floor	Tile	< 0.05
Door Frame	Metal	< 0.05
Electrical Room		
Wall	Concrete	< 0.05
Electrical Breaker	Metal	< 0.05
Locker	Metal	< 0.05
Second Floor		
Room 214C		
Wall	Concrete	< 0.05
Floor	Vinyl	< 0.05
Column	Concrete	< 0.05
Divider Wall	Wood	< 0.05
Ceiling	Metal	< 0.05
Cabinet Frame	Wood	< 0.05
Door	Wood	< 0.05

Lead Paint Testing Results by XRF Analysis
Former Powderhouse School
1060 Broadway
Somerville, Massachusetts
January 17, 2014

Location/Component	Substrate	Results (mg/cm^2)
Door Frame	Metal	< 0.05
Electrical Panel	Metal	< 0.05
Storage Room		
Wall	Concrete	< 0.05
Floor	Concrete	< 0.05
Shelves	Metal	< 0.05
Pipe	Metal	< 0.05
Electrical Conduit	Metal	< 0.05
Custodial Closet		
Wall	Concrete	< 0.05
Shelf	Wood	< 0.05
Sink Base	Concrete	< 0.05
Room 223A		
Radiator	Metal	< 0.05
Wall	Concrete	< 0.05
Divider Wall	Wood	< 0.05
Divider Wall Frame	Metal	< 0.05
Column	Concrete	< 0.05
Window	Metal	< 0.05
Fluorescent Light Holder	Wood	< 0.05
Ceiling	Metal	< 0.05
Cabinet Door	Wood	< 0.05
Electrical Panel	Metal	< 0.05
Door Glass Side-lite Frame	Metal	< 0.05
Gymnasium Balcony/Entry		
Wall	Concrete	< 0.05
Column	Concrete	< 0.05
Door Frame	Metal	< 0.05
Solid Railing Half-Wall	Wood	< 0.05
Gymnasium		
Wall	Concrete	< 0.05
Floor	Wood	< 0.05
Bleachers	Wood	0.26
Interior Door	Metal	< 0.05
Exterior/Exit Door	Metal	2.9

Lead Paint Testing Results by XRF Analysis
Former Powderhouse School
1060 Broadway
Somerville, Massachusetts
January 17, 2014

Location/Component	Substrate	Results (mg/cm^2)
Main Entryway		
Solid Railing Half-Wall	Concrete	< 0.05
Ceiling	Concrete	0.11
Exterior/Exit Doors	Metal	< 0.05
Exterior/Exit Door Frame	Metal	< 0.05
Railing	Wood	< 0.05
Railing Supports	Metal	< 0.05
Third Floor		
Room 315C		
Radiator	Metal	< 0.05
Wall	Concrete	< 0.05
Floor	Vinyl	< 0.05
Door	Wood	< 0.05
Door Frame	Metal	< 0.05
Cabinet Frame	Metal	< 0.05
Electrical Panel	Metal	< 0.05
Door Glass Side-lite Frame	Metal	< 0.05
Column	Concrete	< 0.05
Rear Staircase		
Wall	Concrete	< 0.05
Door	Metal	< 0.05
Stair Treads	Concrete	< 0.05
Floor	Vinyl	< 0.05
Columns	Concrete	< 0.05
Door Frame	Metal	< 0.05
Door Glass Side-lite Frame	Metal	< 0.05
Railing	Metal	0.8
Handrail	Metal	1.1
Hallway		
Wall	Concrete	< 0.05
Door	Wood	< 0.05
Door	Metal	< 0.05
Door Frame	Metal	< 0.05
Fluorescent Light Holder	Metal	< 0.05

Lead Paint Testing Results by XRF
Former Powderhouse School
1060 Broadway
Somerville, Massachusetts
January 17, 2014

Location/Component	Substrate	Results (mg/cm^2)
Exterior		
Garage Door	Metal	0.17
Garage Bumpers	Metal	0.4
Post	Metal	0.3
Pipe	Metal	0.4

- <0.05 = less than the limit of quantification of the XRF.
- mg/cm^2 = milligrams of lead per square centimeter of sampled surface area.

APPENDIX C

INVENTORY OF OBSERVED POTENTIALLY HAZARDOUS BUILDING MATERIALS

Inventory of Observed Potentially Hazardous Equipment and Stored Items
Former Powderhouse School
1060 Broadway
Somerville, Massachusetts
January 16, 2014

Item	Size	Approximate Quantity
First Floor		
Fluorescent lamp	4' x 2'	574 each
	3' x 6'	696 each
	4' x 4'	7 each
	2' x 2'	12 each
CFL	N/A	10 each
Stored bulb	N/A	23 each
Refrigerator	N/A	1 each
Fire alarm panel	N/A	1 each
Switchgear (Westinghouse installed 3/72)	N/A	1 each
Capacitor Bank (Autovar. Cap. Bank #125MCSD4313)	N/A	1 each
Transformer (Westinghouse DT-3 Serial #71K4368)	N/A	1 each
Gas Meter	N/A	1 each
Paint	1 Gallon	9 each
Paint	5 Gallon	1 each
Sports floor cleaner	5 Gallon	3 each
Linoleum adhesive	5 Gallon	1 each
Pesticide	1 Gallon	1 each
Disinfectant concentrate	1 Gallon	1 each
Walk-in freezer	N/A	1 each
Trash compactor	N/A	1 each
Industrial refrigerator	N/A	1 each
Compressor	N/A	3 each

Inventory of Observed Potentially Hazardous Equipment and Stored Items
Former Powderhouse School
1060 Broadway
Somerville, Massachusetts
January 16, 2014

Item	Size	Approximate Quantity
Floor wax stripper	N/A	5 each
Cathode Ray Tube	N/A	1 each
Unknown	5 Gallon	5 each
Second Floor		
Fluorescent lamp	4' x 2'	376 each
	3' x 6'	1386 each
	3' x 2'	14 each
	2' x 2'	9 each
	4' x 1'	2 each
Smoke detectors	N/A	10 each
Sodium (?)	N/A	15 each
Third Floor		
Fluorescent lamp	4' x 2'	214 each
	3' x 6'	630 each
	2' x 2'	4 each
Smoke detectors	N/A	7 each
Gas water heater	N/A	3 each
Refrigeration oil	5 Gallon	1 each
Gas fixed air heaters	N/A	2 each
Compressor with oil reserve	N/A	1 each
Fan penetrating oil	Can	1 each

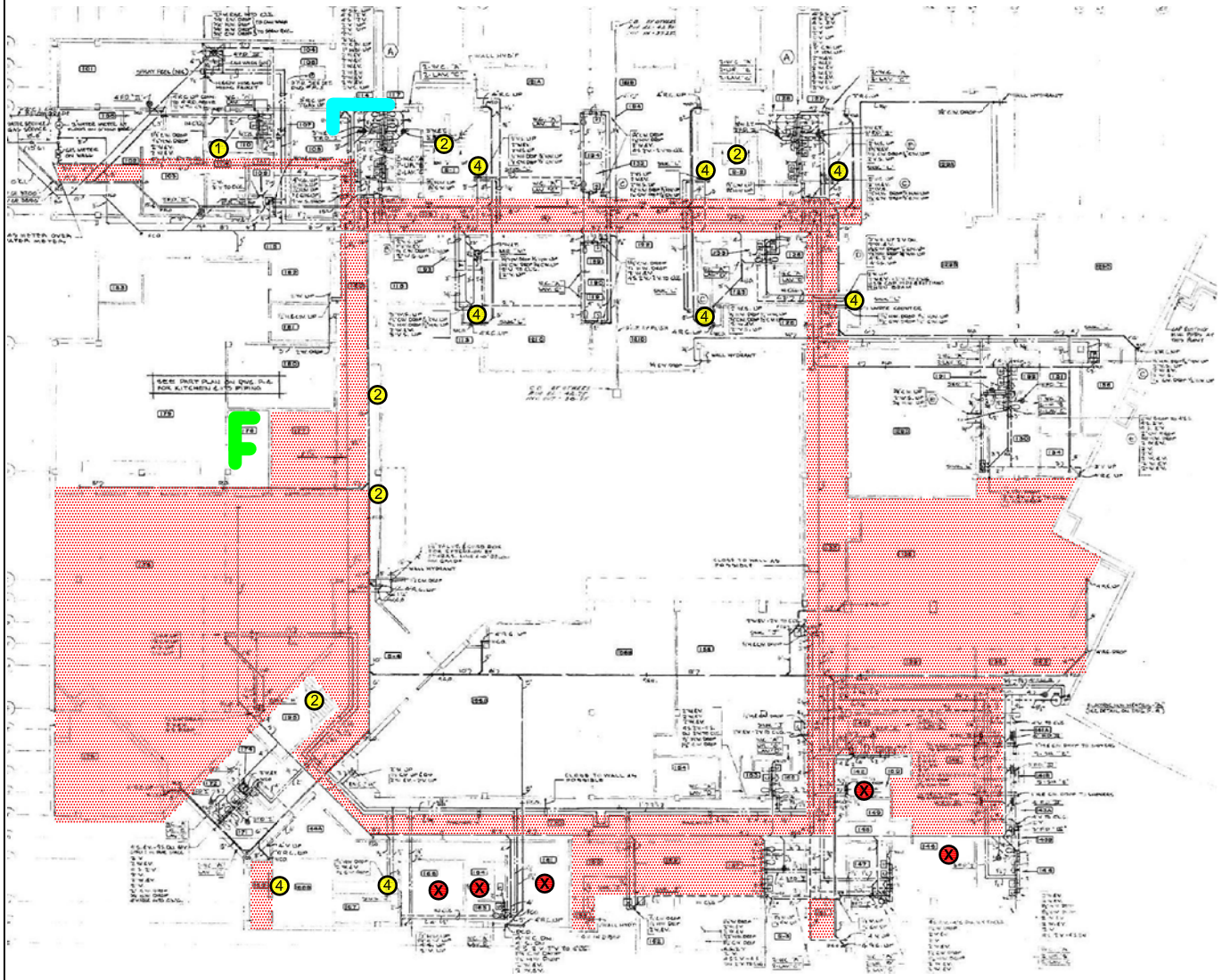
Inventory of Observed Potentially Hazardous Equipment and Stored Items
Former Powderhouse School
1060 Broadway
Somerville, Massachusetts
January 16, 2014

Roof		
HVAC units (high roof)	N/A	6 each
HVAC units (low roof)	N/A	4 each
Exterior		
Transformer (16-1461 585-114H)	N/A	1 each

Notes: N/A = Not Applicable

APPENDIX D

APPROXIMATE LOCATIONS OF IDENTIFIED AND ASSUMED ASBESTOS-CONTAINING MATERIALS



Key - Asbestos-Containing Materials

- Brown duct seam sealant
- 6" diameter pipe insulation
- 12" x 12" Brown floor tile and associated mastic
- (1) Radiator caulk compound
- (2) Coating on underside of cement stairs
- (3) Duct rope-like insulation/sealant
- (4) Sink basin coating (black and pink)
- (X) Inaccessible areas

ACM not shown on drawing - Located throughout building

Caulk on interior wire mesh windows (located at entrances to most classrooms and various hallway locations)

Interior door caulk (all interior doors)

Exterior louvre vent caulk; perimeter roofing composite materials and capstone waterproofing black sealant located on exterior

Black dampproofing inside perimeter CMU block walls (located in wall cavity of all perimeter walls, all elevations)

Skim coat on concrete columns throughout building

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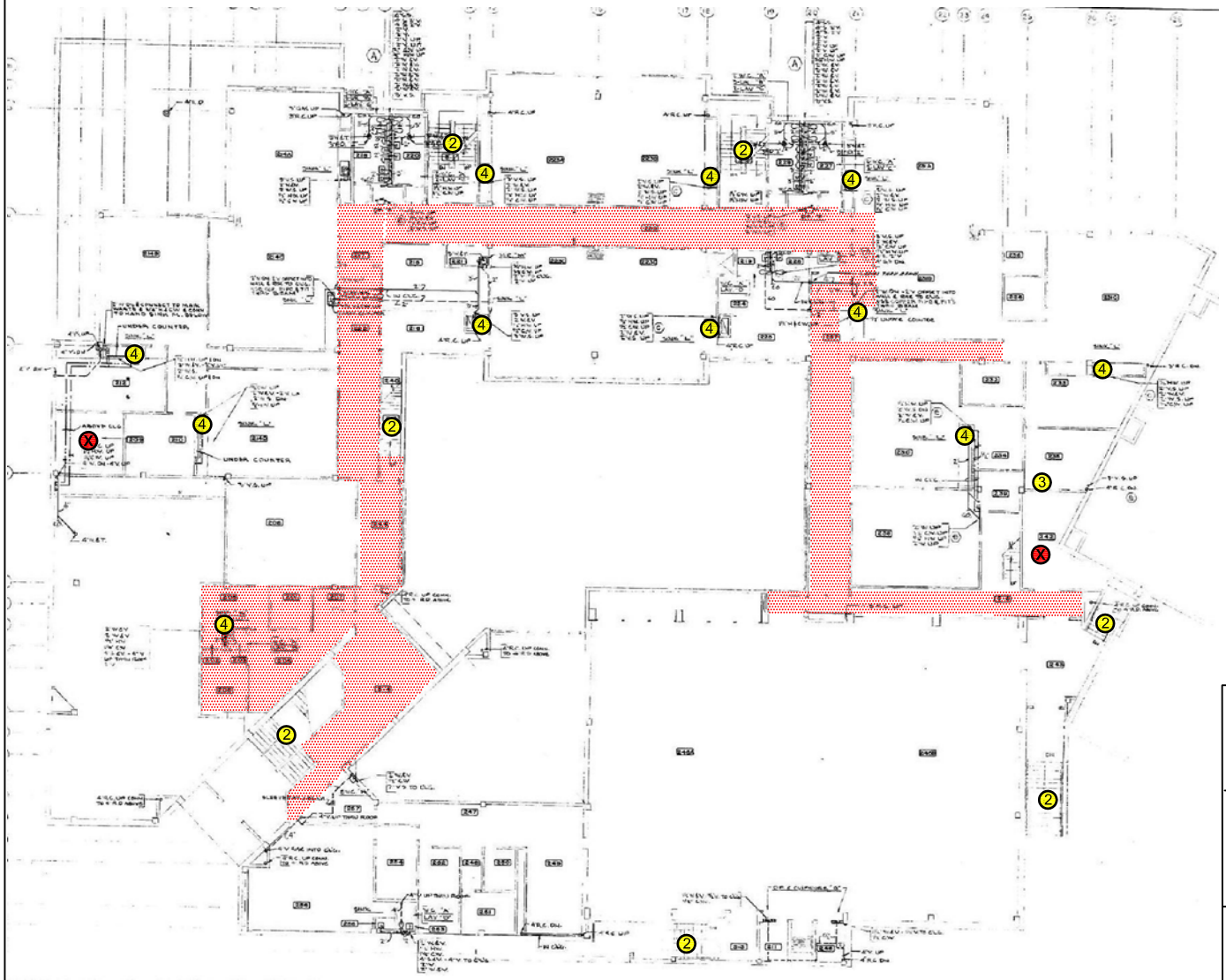
300 Wildwood Avenue, Woburn, MA 01801
Tel: 781.933.2555 * Fax 781.932.9402
email: mail@covinoinc.com

Client:	Site:
ADD, Inc. 311 Summer Street Boston, Massachusetts	Former Powderhouse School 1060 Broadway Somerville, Massachusetts

Approximate Locations of Identified and Assumed Asbestos-Containing Materials

January 8 - 16 and February 11 - 12, 2014

Covino Project 14.00046	NOT TO SCALE	
First Floor	Revised by: ALM	Date: 03.12.14



Key - Asbestos-Containing Materials

- Brown duct seam sealant
- 6" diameter pipe insulation
- 12" x 12" Brown floor tile and associated mastic

1. Radiator caulk compound
2. Coating on underside of cement stairs
3. Duct rope-like insulation/sealant
4. Sink basin coating (black and pink)
X. Inaccessible areas

ACM not shown on drawing - Located throughout building

Caulk on Interior wire mesh windows (located at entrances to most classrooms and various hallway locations)

Interior door caulk (all interior doors)

Exterior louvre vent caulk; perimeter roofing composite materials and capstone waterproofing black sealant located on exterior

Black dampproofing inside perimeter CMU block walls (located in wall cavity of all perimeter walls, all elevations)

Skim coat on concrete columns throughout building

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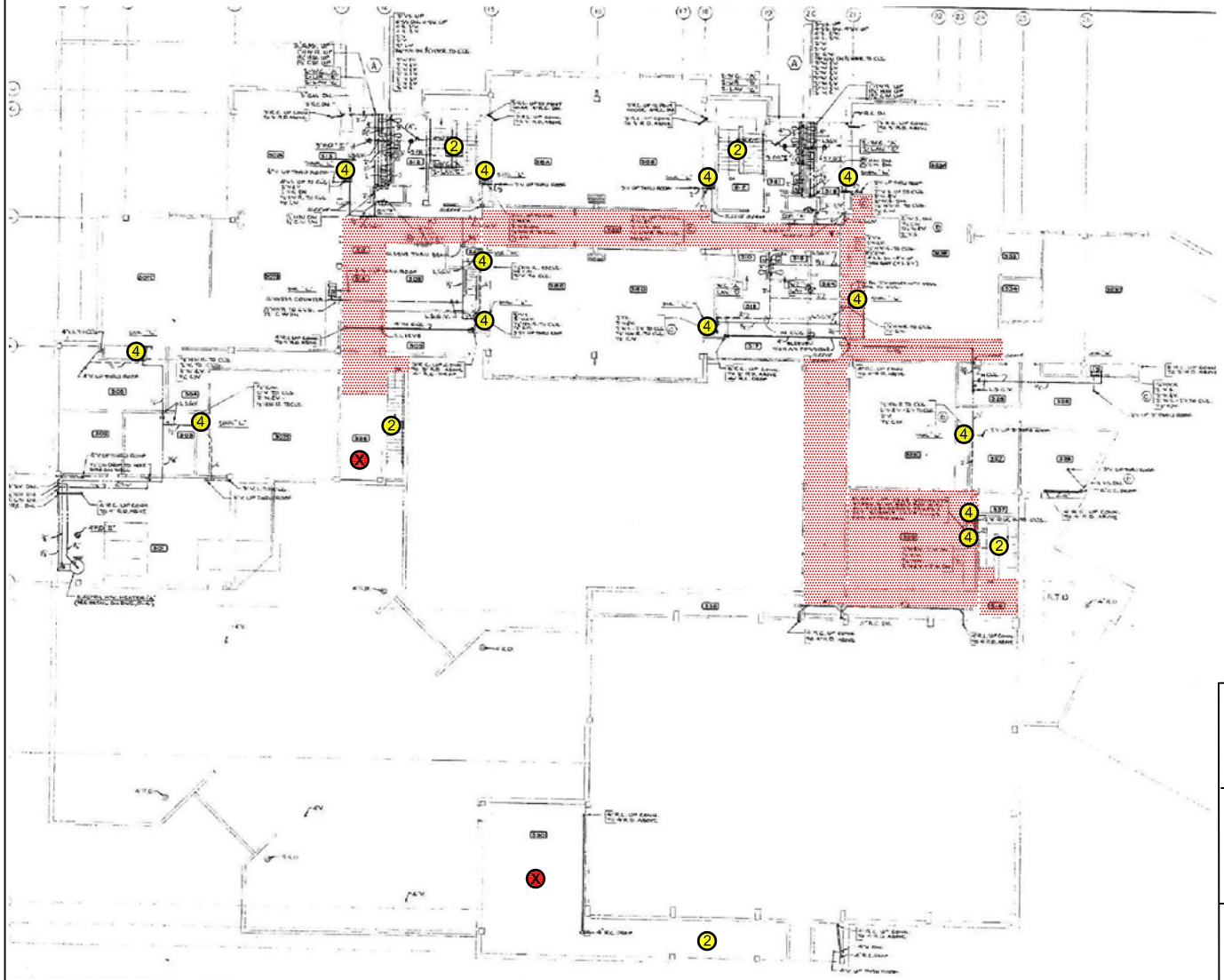
300 Wildwood Avenue, Woburn, MA 01801
Tel: 781.933.2555 * Fax 781.932.9402
email: mail@covinoinc.com

Client:	Site:
ADD, Inc. 311 Summer Street Boston, Massachusetts	Former Powderhouse School 1060 Broadway Somerville, Massachusetts

Approximate Locations of Identified and Assumed Asbestos-Containing Materials

January 8 - 16 and February 11 - 12, 2014

Covino Project 14.00046	NOT TO SCALE	
Second Floor	Revised by: ALM	Date: 03.12.14



Key - Asbestos-Containing Materials

- Brown duct seam sealant
- 6" diameter pipe insulation
- 12" x 12" Brown floor tile and associated mastic
- (1) Radiator caulk compound
- (2) Coating on underside of cement stairs
- (3) Duct rope-like insulation/sealant
- (4) Sink basin coating (black and pink)
- (X) Inaccessible areas

ACM not shown on drawing - Located throughout building

Caulk on interior wire mesh windows (located at entrances to most classrooms and various hallway locations)

Interior door caulk (all interior doors)

Exterior louvre vent caulk; perimeter roofing composite materials and capstone waterproofing black sealant located on exterior

Black dampproofing inside perimeter CMU block walls (located in wall cavity of all perimeter walls, all elevations)

Skim coat on concrete columns throughout building

COVINO ENVIRONMENTAL ASSOCIATES INC
300 Wildwood Avenue, Woburn, MA 01801
Tel: 781.933.2555 * Fax 781.932.9402
email: mail@covinoinc.com

Client:	Site:
ADD, Inc. 311 Summer Street Boston, Massachusetts	Former Powderhouse School 1060 Broadway Somerville, Massachusetts

Approximate Locations of Identified and Assumed Asbestos-Containing Materials

January 8 - 16 and February 11 - 12, 2014

Covino Project 14.00046	NOT TO SCALE	
Third Floor	Revised by: ALM	Date: 03.12.14

APPENDIX E

PCB BULK SAMPLE LABORATORY ANALYSIS REPORT

COVINO ENVIRONMENTAL ASSOCIATES INC
300 Wildwood Avenue, Woburn, MA 01801 • Tel: 781.933.2555 • Fax: 781.932.9402 • email:mail@covinoinc.com

Date:
eb-14 17:09

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Covino Environmental Associates, Inc.
300 Wildwood Avenue
Woburn, MA 01801
Attn: Kevin Craig

Project: Former Powder House School - Somerville, MA
Project #: 14.00046

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB84669-01	1	Caulking Compounds	11-Feb-14 09:35	14-Feb-14 16:05
SB84669-02	2	Caulking Compounds	11-Feb-14 09:55	14-Feb-14 16:05
SB84669-03	3	Caulking Compounds	11-Feb-14 10:15	14-Feb-14 16:05
SB84669-04	4	Caulking Compounds	11-Feb-14 10:50	14-Feb-14 16:05
SB84669-05	5	Caulking Compounds	11-Feb-14 11:00	14-Feb-14 16:05
SB84669-06	6	Caulking Compounds	11-Feb-14 11:20	14-Feb-14 16:05
SB84669-07	7	Caulking Compounds	11-Feb-14 11:45	14-Feb-14 16:05
SB84669-08	8	Caulking Compounds	11-Feb-14 12:20	14-Feb-14 16:05
SB84669-09	9	Caulking Compounds	11-Feb-14 13:05	14-Feb-14 16:05
SB84669-10	10	Caulking Compounds	11-Feb-14 13:25	14-Feb-14 16:05

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

NELAP ACCREDITED TNI LABORATORY

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 15 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

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Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received 5.7 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Samples:

SB84669-03 *3*

Difference between the two GC columns is greater than 40%.

Aroclor-1254

SB84669-04 *4*

Difference between the two GC columns is greater than 40%.

Aroclor-1248

SB84669-05 *5*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1248

SB84669-06 *6*

Difference between the two GC columns is greater than 40%.

Aroclor-1248

SB84669-08 *8*

The Reporting Limit has been raised to account for matrix interference.

Sample Acceptance Check Form

Client:	Covino Environmental Associates, Inc.
Project:	Former Powder House School - Somerville, MA / 14.00046
Work Order:	SB84669
Sample(s) received on:	2/14/2014
Received by:	Vickie Knowles

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☐	☑	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☑	☐	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☐	☑	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☐	☑	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
1 SB84669-01	14.00046	Caulking Compounds	11-Feb-14 09:35	14-Feb-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 182		µg/kg dry	182	136	1	SW846 8082A	18-Feb-14	20-Feb-14	BLM	1403612	
11104-28-2	Aroclor-1221	< 182		µg/kg dry	182	164	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 182		µg/kg dry	182	117	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 182		µg/kg dry	182	109	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 182		µg/kg dry	182	94.6	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 182		µg/kg dry	182	152	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 182		µg/kg dry	182	113	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 182		µg/kg dry	182	169	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 182		µg/kg dry	182	75.0	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	99.0		%			1	SM2540 G Mod.	21-Feb-14	21-Feb-14	DT	1403943	

182.

< 0.182

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
2 SB84669-02	14.00046	Caulking Compounds	11-Feb-14 09:55	14-Feb-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 159		µg/kg dry	159	119	1	SW846 8082A	18-Feb-14	20-Feb-14	BLM	1403612	
11104-28-2	Aroclor-1221	< 159		µg/kg dry	159	143	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 159		µg/kg dry	159	102	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 159		µg/kg dry	159	95.8	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	1,050		µg/kg dry	159	82.8	1	"	"	"	"	"	
11097-69-1	Aroclor-1254 [2C]	1,690		µg/kg dry	159	93.2	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 159		µg/kg dry	159	98.7	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 159		µg/kg dry	159	148	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 159		µg/kg dry	159	65.7	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	97.9		%			1	SM2540 G Mod.	21-Feb-14	21-Feb-14	DT	1403943	

50 ppm

1,690

1.69

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
3 SB84669-03	14.00046	Caulking Compounds	11-Feb-14 10:15	14-Feb-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 180		µg/kg dry	180	135	1	SW846 8082A	18-Feb-14	20-Feb-14	BLM	1403612	
11104-28-2	Aroclor-1221	< 180		µg/kg dry	180	163	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 180		µg/kg dry	180	116	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 180		µg/kg dry	180	109	1	"	"	"	"	"	
12672-29-6	Aroclor-1248 [2C]	839		µg/kg dry	180	79.2	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	180	P	µg/kg dry	180	150	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 180		µg/kg dry	180	112	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 180		µg/kg dry	180	168	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 180		µg/kg dry	180	74.4	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	98.5		%			1	SM2540 G Mod.	21-Feb-14	21-Feb-14	DT	1403943	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
4 SB84669-04	14.00046	Caulking Compounds	11-Feb-14 10:50	14-Feb-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 169		µg/kg dry	169	126	1	SW846 8082A	18-Feb-14	20-Feb-14	BLM	1403612	
11104-28-2	Aroclor-1221	< 169		µg/kg dry	169	152	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 169		µg/kg dry	169	109	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 169		µg/kg dry	169	102	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	685	P	µg/kg dry	169	87.9	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 169		µg/kg dry	169	141	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 169		µg/kg dry	169	105	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 169		µg/kg dry	169	158	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 169		µg/kg dry	169	69.8	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	98.3		%			1	SM2540 G Mod.	21-Feb-14	21-Feb-14	DT	1403944	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
5 SB84669-05	14.00046	Caulking Compounds	11-Feb-14 11:00	14-Feb-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 169		µg/kg dry	169	126	1	SW846 8082A	18-Feb-14	20-Feb-14	BLM	1403612	
11104-28-2	Aroclor-1221	< 169		µg/kg dry	169	152	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 169		µg/kg dry	169	108	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 169		µg/kg dry	169	102	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 338	R01	µg/kg dry	338	176	1	"	"	"	"	"	
11097-69-1	Aroclor-1254 [2C]	414		µg/kg dry	169	98.9	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 169		µg/kg dry	169	105	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 169		µg/kg dry	169	157	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 169		µg/kg dry	169	69.7	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	99.4		%			1	SM2540 G Mod.	21-Feb-14	21-Feb-14	DT	1403944	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
6 SB84669-06	14.00046	Caulking Compounds	11-Feb-14 11:20	14-Feb-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 177		µg/kg dry	177	132	1	SW846 8082A	18-Feb-14	20-Feb-14	BLM	1403612	
11104-28-2	Aroclor-1221	< 177		µg/kg dry	177	159	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 177		µg/kg dry	177	114	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 177		µg/kg dry	177	106	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	1,510	P	µg/kg dry	177	92.0	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	743		µg/kg dry	177	147	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 177		µg/kg dry	177	110	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 177		µg/kg dry	177	165	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 177		µg/kg dry	177	73.0	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	97.6		%			1	SM2540 G Mod.	21-Feb-14	21-Feb-14	DT	1403944	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
7 SB84669-07	14.00046	Caulking Compounds	11-Feb-14 11:45	14-Feb-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 169		µg/kg dry	169	126	1	SW846 8082A	18-Feb-14	20-Feb-14	BLM	1403612	
11104-28-2	Aroclor-1221	< 169		µg/kg dry	169	152	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 169		µg/kg dry	169	108	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 169		µg/kg dry	169	101	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	24,600		µg/kg dry	169	87.7	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	34,400		µg/kg dry	169	141	1	"	"	"	"	"	
11096-82-5	Aroclor-1260 [2C]	7,850		µg/kg dry	169	84.4	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 169		µg/kg dry	169	157	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 169		µg/kg dry	169	69.6	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	97.5		%			1	SM2540 G Mod.	21-Feb-14	21-Feb-14	DT	1403944	

34,400.

34.4 ppm

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
8 SB84669-08	14.00046	Caulking Compounds	11-Feb-14 12:20	14-Feb-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			R01										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 831		µg/kg dry	831	621	1	SW846 8082A	18-Feb-14	20-Feb-14	BLM	1403612	
11104-28-2	Aroclor-1221	< 831		µg/kg dry	831	749	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 831		µg/kg dry	831	534	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 831		µg/kg dry	831	500	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 831		µg/kg dry	831	432	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 831		µg/kg dry	831	693	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 831		µg/kg dry	831	515	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 831		µg/kg dry	831	774	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 831		µg/kg dry	831	343	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	98.6		%			1	SM2540 G Mod.	21-Feb-14	21-Feb-14	DT	1403944	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
9 SB84669-09	14.00046	Caulking Compounds	11-Feb-14 13:05	14-Feb-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 164		µg/kg dry	164	122	1	SW846 8082A	18-Feb-14	20-Feb-14	BLM	1403612	
11104-28-2	Aroclor-1221	< 164		µg/kg dry	164	147	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 164		µg/kg dry	164	105	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 164		µg/kg dry	164	98.4	1	"	"	"	"	"	
12672-29-6	Aroclor-1248 [2C]	1,340		µg/kg dry	164	71.8	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	2,800		µg/kg dry	164	136	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 164		µg/kg dry	164	101	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 164		µg/kg dry	164	152	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 164		µg/kg dry	164	67.5	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	98.3		%			1	SM2540 G Mod.	21-Feb-14	21-Feb-14	DT	1403944	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
10 SB84669-10	14.00046	Caulking Compounds	11-Feb-14 13:25	14-Feb-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 165		µg/kg dry	165	123	1	SW846 8082A	18-Feb-14	20-Feb-14	BLM	1403612	
11104-28-2	Aroclor-1221	< 165		µg/kg dry	165	148	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 165		µg/kg dry	165	106	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 165		µg/kg dry	165	99.1	1	"	"	"	"	"	
12672-29-6	Aroclor-1248 [2C]	2,530		µg/kg dry	165	72.3	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	684		µg/kg dry	165	137	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 165		µg/kg dry	165	102	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 165		µg/kg dry	165	153	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 165		µg/kg dry	165	68.0	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	98.3		%			1	SM2540 G Mod.	21-Feb-14	21-Feb-14	DT	1403944	

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1403612 - SW846 3540C										
Blank (1403612-BLK1)					Prepared: 18-Feb-14 Analyzed: 20-Feb-14					
Aroclor-1016	< 64.0		µg/kg wet	64.0						
Aroclor-1016 [2C]	< 64.0		µg/kg wet	64.0						
Aroclor-1221	< 64.0		µg/kg wet	64.0						
Aroclor-1221 [2C]	< 64.0		µg/kg wet	64.0						
Aroclor-1232	< 64.0		µg/kg wet	64.0						
Aroclor-1232 [2C]	< 64.0		µg/kg wet	64.0						
Aroclor-1242	< 64.0		µg/kg wet	64.0						
Aroclor-1242 [2C]	< 64.0		µg/kg wet	64.0						
Aroclor-1248	< 64.0		µg/kg wet	64.0						
Aroclor-1248 [2C]	< 64.0		µg/kg wet	64.0						
Aroclor-1254	< 64.0		µg/kg wet	64.0						
Aroclor-1254 [2C]	< 64.0		µg/kg wet	64.0						
Aroclor-1260	< 64.0		µg/kg wet	64.0						
Aroclor-1260 [2C]	< 64.0		µg/kg wet	64.0						
Aroclor-1262	< 64.0		µg/kg wet	64.0						
Aroclor-1262 [2C]	< 64.0		µg/kg wet	64.0						
Aroclor-1268	< 64.0		µg/kg wet	64.0						
Aroclor-1268 [2C]	< 64.0		µg/kg wet	64.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*51.2*		µg/kg wet		*64.0*		*80*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*51.2*		µg/kg wet		*64.0*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*32.0*		µg/kg wet		*64.0*		*50*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*41.6*		µg/kg wet		*64.0*		*65*	*30-150*		
LCS (1403612-BS1)					Prepared: 18-Feb-14 Analyzed: 20-Feb-14					
Aroclor-1016	**816**		µg/kg wet	63.5	794		103	40-140		
Aroclor-1016 [2C]	**715**		µg/kg wet	63.5	794		90	40-140		
Aroclor-1260	**604**		µg/kg wet	63.5	794		76	40-140		
Aroclor-1260 [2C]	**693**		µg/kg wet	63.5	794		87	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*66.7*		µg/kg wet		*63.5*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*69.9*		µg/kg wet		*63.5*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*44.5*		µg/kg wet		*63.5*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*57.2*		µg/kg wet		*63.5*		*90*	*30-150*		
LCS Dup (1403612-BSD1)					Prepared: 18-Feb-14 Analyzed: 20-Feb-14					
Aroclor-1016	**795**		µg/kg wet	61.6	770		103	40-140	0.4	30
Aroclor-1016 [2C]	**659**		µg/kg wet	61.6	770		86	40-140	5	30
Aroclor-1260	**585**		µg/kg wet	61.6	770		76	40-140	0	30
Aroclor-1260 [2C]	**699**		µg/kg wet	61.6	770		91	40-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*64.7*		µg/kg wet		*61.6*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*67.8*		µg/kg wet		*61.6*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*43.1*		µg/kg wet		*61.6*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*55.5*		µg/kg wet		*61.6*		*90*	*30-150*		

Notes and Definitions

P	Difference between the two GC columns is greater than 40%.
R01	The Reporting Limit has been raised to account for matrix interference.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk

CHAIN OF CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Page 1 of 1

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: ______
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: KEVIN CRAIG

Telephone #: (781) 706-7329

Project Mgr. KEVIN CRAIG

Invoice To: COVINO ENVIRONMENTAL ASSOC. INC.
300 WILDWOOD AVENUE
WOBURN MA 01801

P.O. No.: ______ RQN: ______

Project No.: 14.00046

Site Name: FORMER POWDERHOUSE SCHOOL

Location: SOMERVILLE MA State: MA

Sampler(s): KEN ROBERTS

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=______ 12=______

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=______ X2=______ X3=______
AII CAULKING COMPOUNDS

G=Grab C=Composite

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

MA DEP MCP CAM Report: Yes☐ No☒
CT DPH RCP Report: Yes☐ No☒

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other ______
State-specific reporting standards:

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Method 3540 8082 PCB (Soxhlet)						
SB85466-01	1	2/11/2014	09:35	G	EXT. DOOR					✓						
-02	2	|	09:55	G	GLASS DOOR					✓						
-03	3	|	10:15	G	INT. DOOR					✓						
-04	4	|	10:50	G	EXT. DOOR					✓						
-05	5	|	11:00	G	EXT. WINDOW					✓						
-06	6	|	11:20	G	EXT. VENT					✓						
-07	7	|	11:45	G	GLASS PANE					✓						
-08	8	|	12:20	G	GLASS PANEL					✓						
-09	9	|	13:05	G	GLASS WINDOW					✓						
-10	10	↓	13:25	G	EXT. DOOR					✓						

IR 01

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	2/14/14	1500	
[signature]	[signature]	2/14/14	1605	

☐ EDD Format ______

☒ E-mail to KCRAIG@COVINOINC.COM

Condition upon receipt: ☐ Ambient ☐ Iced ☒ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen