



Addendum #1

New Jersey Schools Development Authority
Office of Procurement
32 East Front Street
Trenton, NJ 08625
Phone: 609-858-2915

DATE: June 29, 2018

PROJECT #: EP-0113-A01
Design Consultant Services
Paterson – Public School #5
Roof Replacement, Masonry and Window Repairs Emergent Project

DESCRIPTION: Addendum #1

This addendum shall be considered part of the Design Consultant Services Request for Proposals (“RFP”) issued in connection with the referenced project. Should information contained in this Addendum conflict with the Design Consultant Services RFP this Addendum shall supersede the relevant information in the Design Consultant Services RFP.

A. CHANGES TO THE PROCUREMENT PROCESS:

- 1. Not applicable.

B. CHANGES TO THE PROCUREMENT DOCUMENTS:

NOTE: Additions are shown in **bold and underlined** text; deletions in *strikethrough and italics*.

1. Modifications to the RFP

- a. **MODIFY:** SECTION 3 – DELIVERY AND MAILING REQUIREMENTS of the RFP for this Procurement shall be modified as follows:

Responses to this RFP, consisting of a Technical Proposal (one unbound original, ~~five~~ **and six** bound copies ~~and one full size cover-to-cover copy in PDF format on electronic media (USB flash drive or comparable)~~) [End of quoted text]

2. Changes to the RFP Forms

- a. Not applicable.

3. Changes to the Agreement

- a. Not applicable.

C. BIDDER'S QUESTIONS, REQUESTS FOR INFORMATION AND RESPONSES:

1. Question: What is the estimated construction cost for this project?

Answer: The estimated construction cost has not been established at this time. An initial Construction Cost Estimate will be established by the Design Consultant during the Schematic Design Phase.

2. Question: Can you please advise if there are any drawing available for review, including CADD drawings?

Answer: AUTOCAD/electronic drawings are not available. A site plan, floor plans and building elevations are provided as Attachment 1.1 to this Addendum.

3. Question: In Appendix A Project Description and Special Conditions, page 1 of 6, 2.0 General, the last sentence of the first paragraph states that the project will be completed utilizing a Design Build approach. Is this incorrect?

Answer: Incorrect. The Appendix A Project Description and Special Conditions states on page 1 of 6, 2.0 General in the last sentence of the first paragraph that the project will be completed utilizing a Design-Bid-Build approach.

4. Question: It appears that the trees in front of the school that need to be removed as part of this project are located on school property, so can we assume that these trees will not be under the jurisdiction of the City of Paterson Department of public Works Parks and Shade Tree Division?

Answer: The trees at the front of the school are located on Paterson Public Schools property. The trees do not fall under the jurisdiction of the City of Paterson Department of Public Works.

5. Question: In Appendix C Design Consultant's Design and Construction Phase Services, 1.3.1.2. List's Building Survey, Inventory and Documentation and 1.3.1.5. Hazardous Materials and Universal Waste Survey Report, is the scope of these two

items is limited to only the school's exterior building envelop and does not include inside the school?

Answer: The scope of these two items (Appendix C Design Consultant's Design and Construction Phase Services, 1.3.1.2. List's Building Survey, Inventory and Documentation and 1.3.1.5. Hazardous Materials and Universal Waste Survey Report) is limited to the school's exterior building envelope only.

6. Question: Should we identify specialty testing consultants in our proposal?

Answer: Bidders are only required to identify the subconsultants required by the RFP, per page 3 of the RFP.

7. Question: During the pre-design effort, did the original A/E conduct any of the following tests to determine the scope specified by SDA for the roof that the awarded firm will be provided: a.) Roof Cuts, b.) Thermal Scans, c.) Flood Testing, d.) Slope Analysis

Answer: The previous A/E did not conduct roof cuts, flood testing or slope analysis tests. A thermal scan was performed. The Final Predesign Report, inclusive of testing results, will be provided to the successful bidder.

8. Question: During the pre-design effort, did the original A/E conduct any of the following tests to determine the scope specified by SDA for the extent of the parapet replacement: a.) Spray Testing / Thermal Imaging, b.) Masonry Probes

Answer: The previous A/E did not conduct spray testing/thermal imaging or masonry probes testing.

9. Question: During the pre-design effort, did the original A/E conduct any of the following tests to determine the scope specified by SDA for the extent of the brick face repair / lintel repair: a.) Spray Testing / Thermal Imaging, b.) Masonry Probes, c.) Rilem Testing d.) Determination of brick back-up.

Answer: The previous A/E did not conduct spray testing/thermal imaging, masonry probes or Rilem Testing. The exterior walls are constructed of several widths of brick with no cavity space or insulation as was prevalent in the era the school was built (circa 1939).

10. Question: Does the SDA have any historical construction documents for the facility? If so, can the SDA share these documents during the RFP process?

Answer: The SDA does not have any historical construction documents for PS #5.

11. Question: Did the previous firm that conducted the Predesign services for this project develop CADD drawings for the school façade and roof? If so, will the CADD be available to the firm awarded the project for their use?

Answer: AUTOCAD/electronic drawings were not developed for the school façade or roof.

12. Question: Does the SDA have any standards or standard CADD details we are required to use or follow for rehabilitation projects (ie: roofing, brick re-pointing)?

Answer: The SDA required standards for all SDA managed projects can be found in the “SDA Materials and Systems Standards”. The “SDA Materials and Systems Standards” can be found at the following location on the SDA website: <https://www.njsda.gov/NJSDA/Design/DesignStandards>. The SDA does not have any standard AUTOCAD details for use.

13. Question: Will this project require NJSHPO approval?

Answer: NJSHPO approval is not required for this project.

14. Question: In the scope of design services the RFP calls for removal of the existing (12) trees along the front façade of the school. During the walkthrough we noticed that these trees are close to an existing fence. Is the intent for the fence to salvage, remove, or remove and replace?

Answer: The intent is for the fence to remain in place during the tree removal.

15. Question: Are construction phase costs for hazmat abatement monitoring and inspections to be included? If so, how is this to be quantified if the scope of abatement is not determined until design phase testing is complete?

Answer: An allowance in the amount of \$200,000.00 for Testing, Inspection and Additional Unforeseen Design Services has been established for this project. Services under the allowance may include, but are not limited to: infrared scans, roof inspections, moisture probes and hazardous materials testing, including sample collection, laboratory analysis, rental of special equipment necessary for observation or sample collection, services and other costs associated with invasive or destructive investigations and special inspections as well as any unanticipated or unforeseen design services which are necessary to address the emergent condition. Design Consultant must receive written authorization from the SDA before the performance of any allowance services.

16. Question: What environmental reports does NJSDA have? 1. AHERA Asbestos Management Plan (Original with all 3 year reinspections) 2. Since AHERA only covers interior spaces, are there any other asbestos reports for roofs, facades, lintels, capstones, caulks, chimneys etc. 3. Lead-based paint inspection reports 4. Any other environmental reports, i.e. PCB's in caulks, mold testing, etc.

Answer: SDA does not have the AHERA Asbestos Management Plan. Limited inspections for asbestos, lead-based paint and polychlorinated biphenyls of the roof system and building exterior were performed. The Limited Hazardous Materials Inspection Report, dated August 28, 2017, is provided as Attachment 1.2 to this Addendum.

D. CHANGES TO PREVIOUS ADDENDA:

1. Not applicable.

E. ATTACHMENTS:

1. Attachment 1.1 – Public School #5 Site Plan, Floorplans and Elevations
2. Attachment 1.2 – Limited Hazardous Materials Inspection Report, dated August 28, 2017

Refer all questions to NJSDA Procurement Staff. Any bidder attempting to contact government officials (elected or appointed), including NJSDA Board members, NJSDA Staff (except for Procurement), Selection Committee members, NJSDA Consultants, and School District officials for information relating to this project or in an effort to influence the selection process may be immediately disqualified.

End of Addendum No. 1


NJSDA Date 6/29/18



Addendum #1

New Jersey Schools Development Authority
Office of Procurement
32 East Front Street
Trenton, NJ 08625
Phone: 609-858-2915

DATE: June 29, 2018

PROJECT #: EP-0113-A01
Design Consultant Services
Paterson – Public School #5
Roof Replacement, Masonry and Window Repairs Emergent Project

DESCRIPTION: Addendum #1

Acknowledgement of Receipt of Addendum

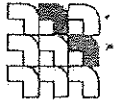
Consultant must acknowledge the receipt of the Addendum by signing in the space provided below and returning via scanned copy (Dkutch@njsda.gov). Signed acknowledgement must be received prior to the Bid Due Date. Acknowledgement of the Addendum must be made on the NJSDA Price Proposal Form. Please include a copy of this signed acknowledgement form in the Technical Proposal Submission.

Signature

Print Name

Company Name

Date



SITE-PLAN

SCALE:AS-NTS

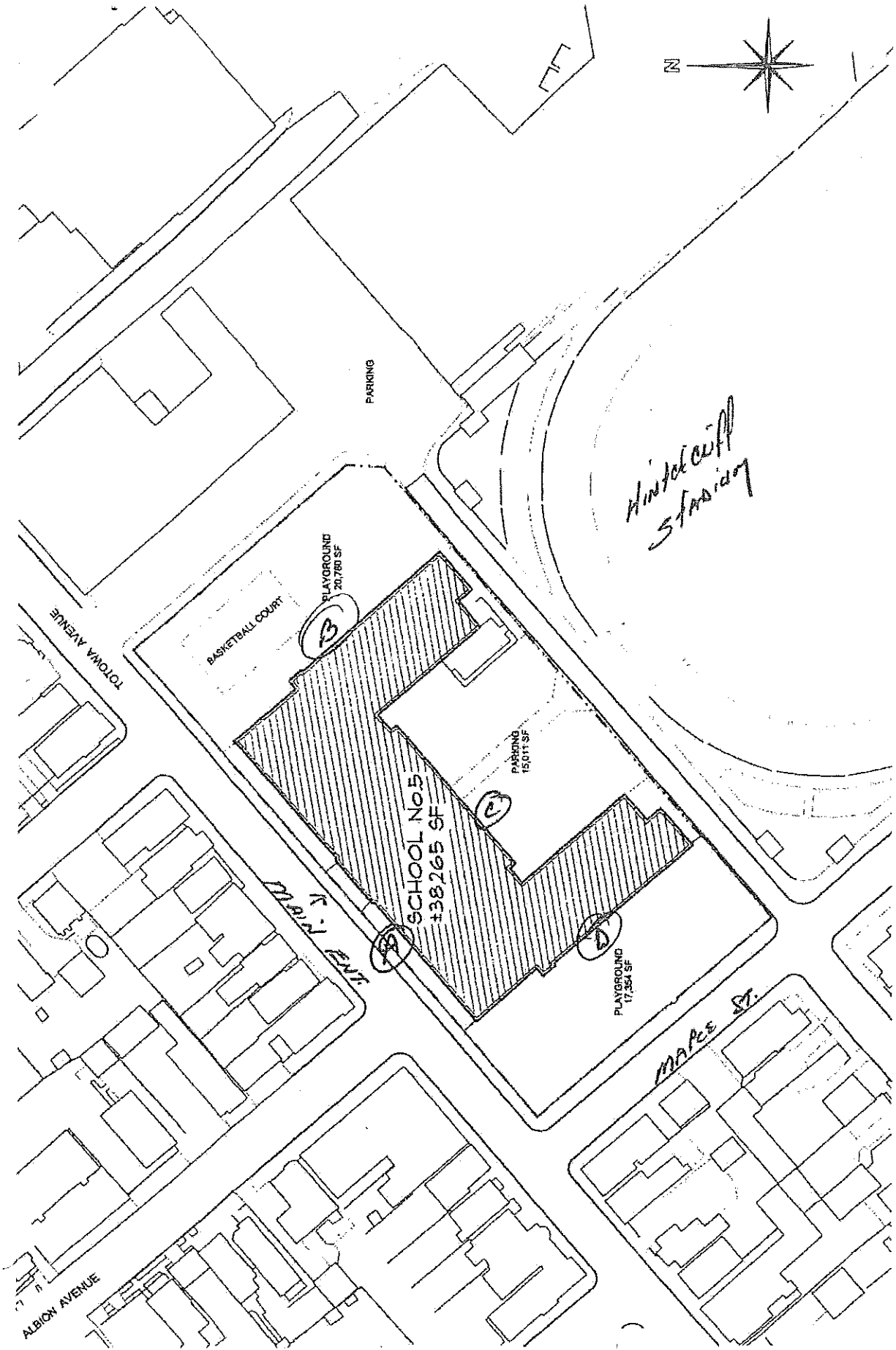
LOT AREA = 2.29 ACRES (99,733 SF)

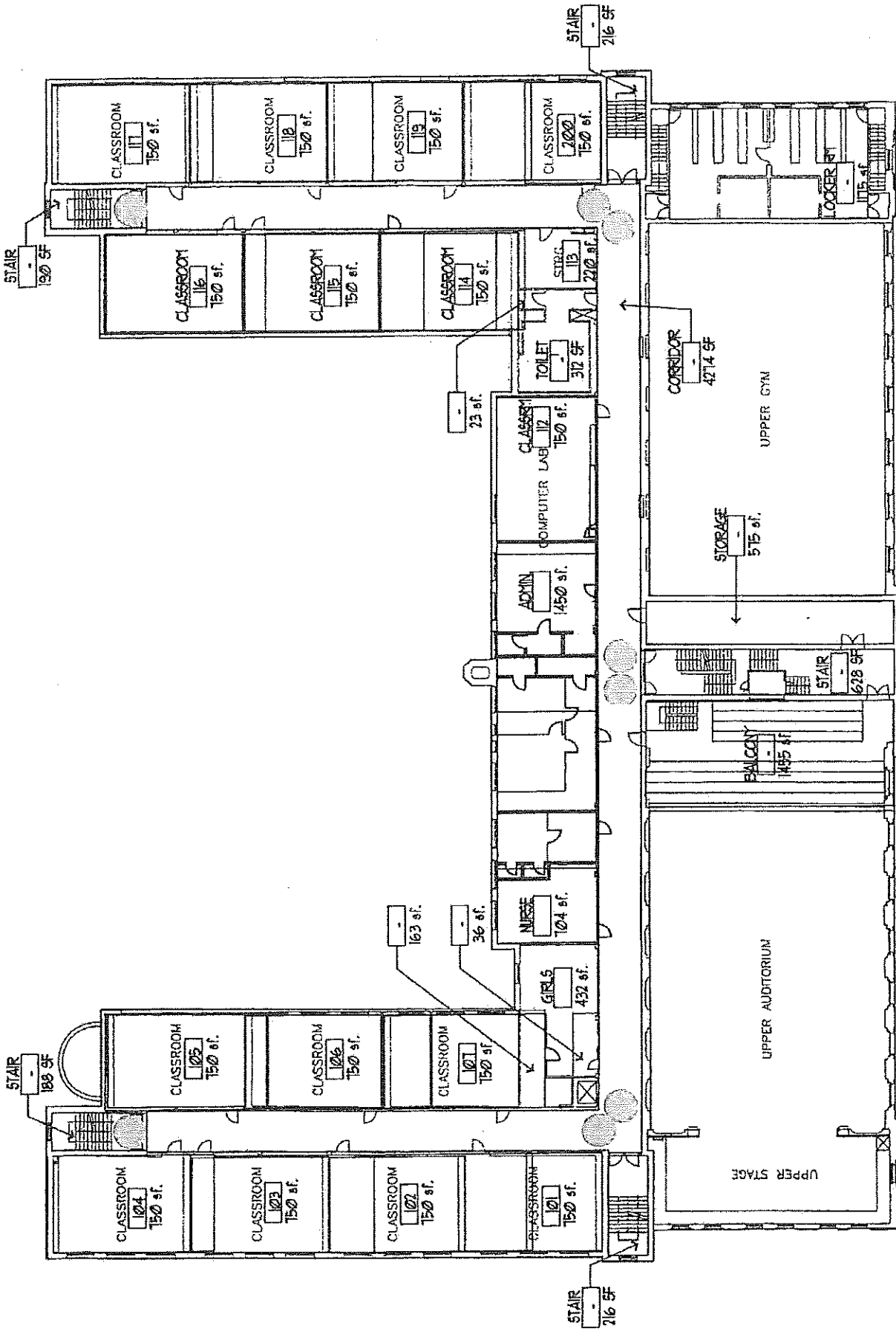
GROSS FLOOR AREA = 108,886 SF

SCHOOL_NO.5

PATERSON,NJ

JOB# 1030

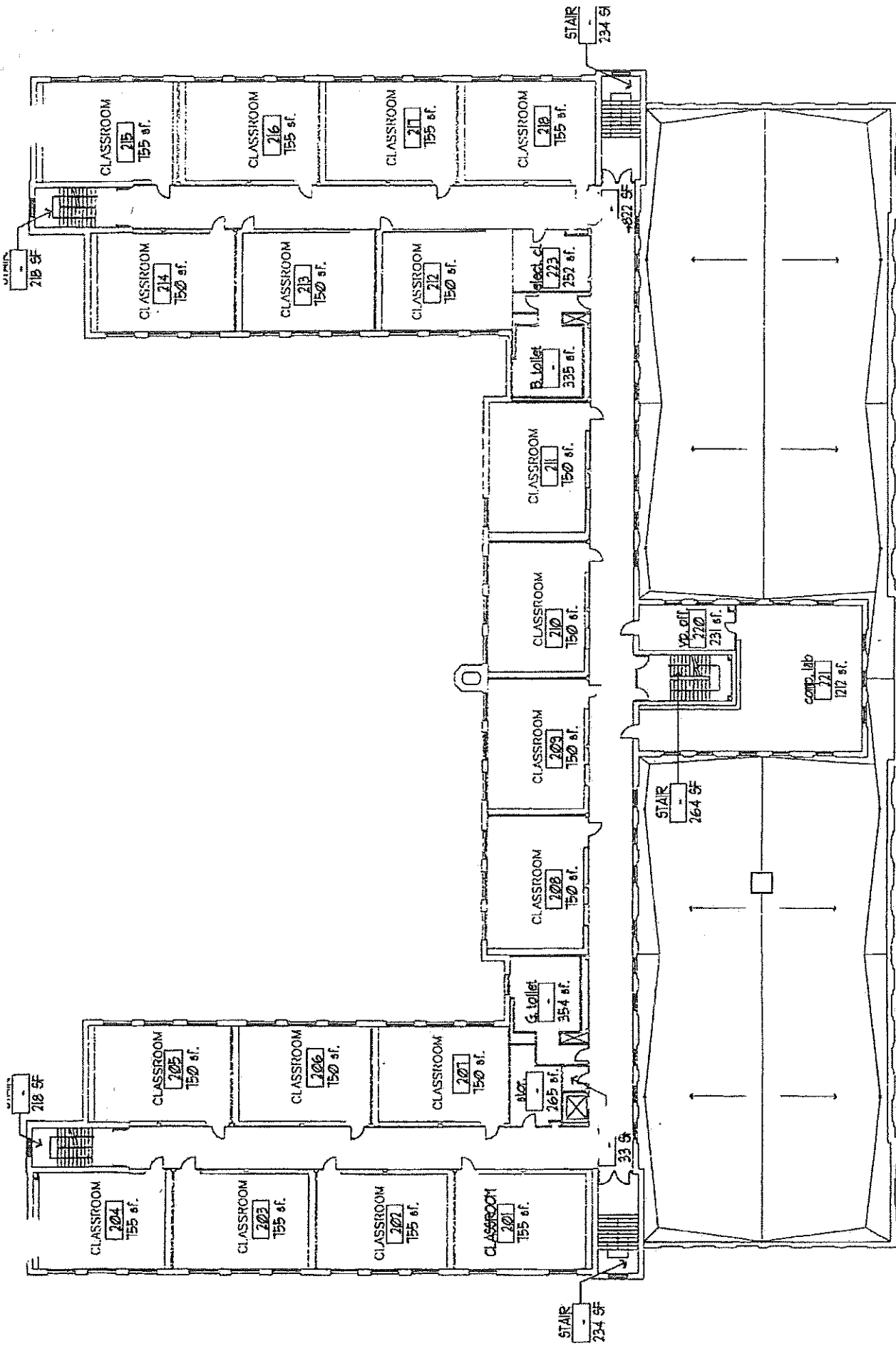




FIRST-FLOOR

SCALE: AS-NITS
 GROSS FLOOR AREA
 262160 SF

SCHOOL_NO.5
 PATERSON, NJ
 1030



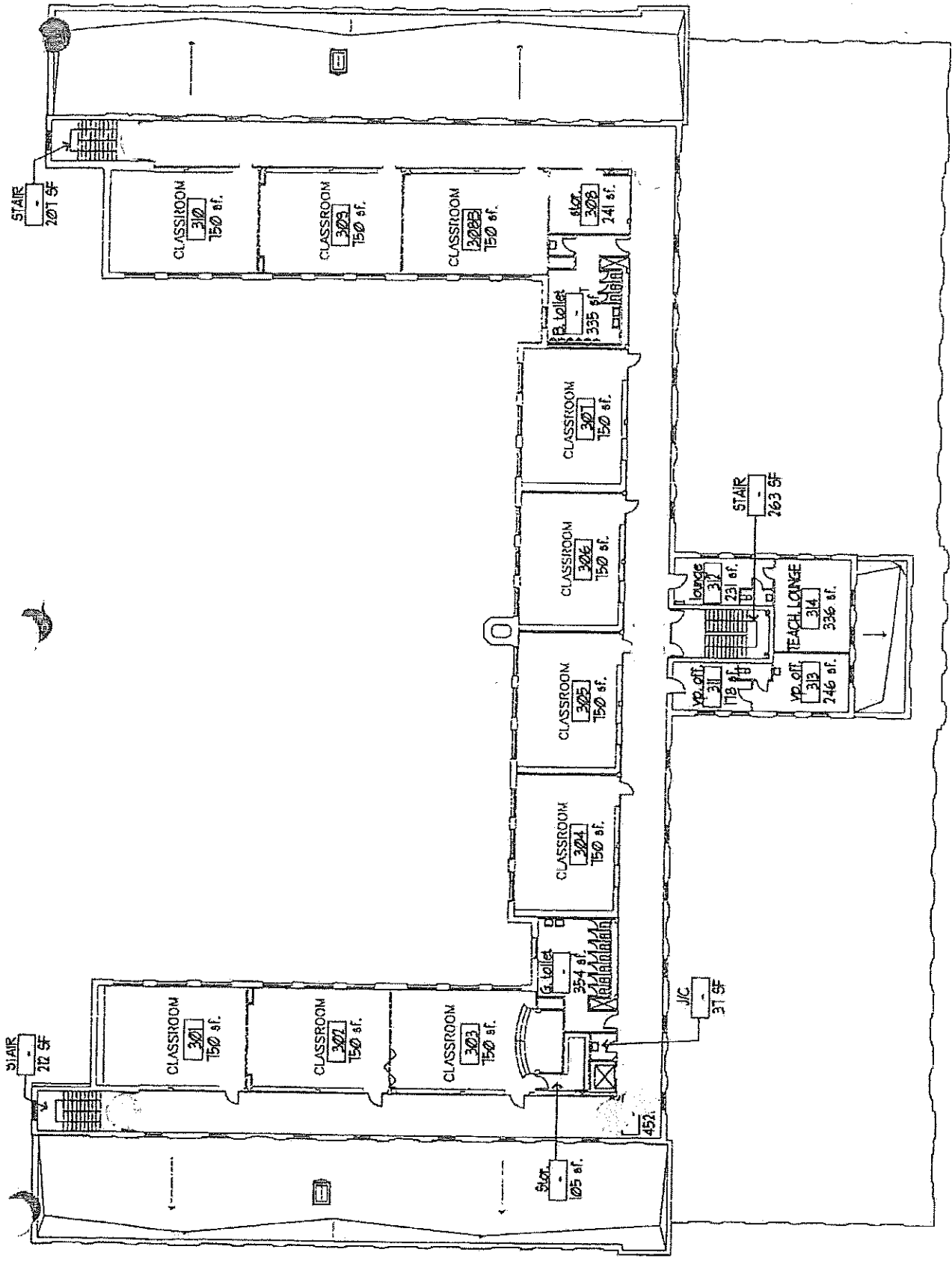
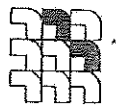
SCHOOL_NO.5
 PATERSON,NJ
 JOB# 1030

SECOND-FLOOR

SCALE:AS-N.TS
 GROSS FLOOR AREA

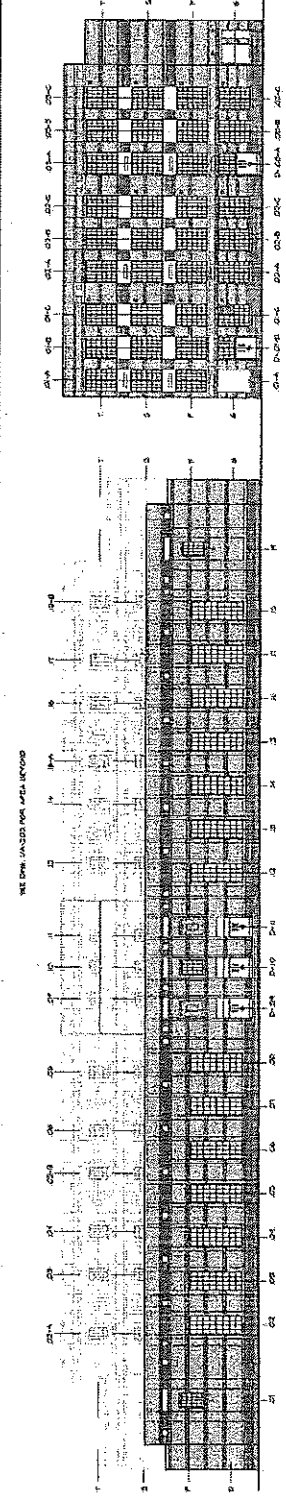
26795 SF





THIRD-FLOOR
SCALE: AS-N'TS
GROSS FLOOR AREA
11807 SF

SCHOOL NO. 5
PATERSON, NJ
JOB # 1030



1 WEST ELEVATION
SCALE: 1/8"=1'-0"

2 SOUTH COURTYARD ELEVATION
SCALE: 1/8"=1'-0"

4 EAST ELEVATION
SCALE: 1/8"=1'-0"

5 NORTH ELEVATION
SCALE: 1/8"=1'-0"

3 NORTH COURTYARD ELEVATION
SCALE: 1/8"=1'-0"

6 SOUTH ELEVATION
SCALE: 1/8"=1'-0"

STATE OF NEW JERSEY

CDB ASSOCIATES
ARCHITECTS
200 SOUTH 10TH AVENUE
PHILADELPHIA, PA 19106

CONSTRUCTION DOCUMENTS - KINDER RELEVANT AND REPLACEMENT
SCHOOL NO. 3
PATTERSON
PASSAIC COUNTY

NO. DATE

001	August 18, 2000

SCALE AS NOTED

ISSUING FIRM

OVERALL ELEVATION
SHEET NO. 03 OF 16

NOTE:
1. ALL DIMENSIONS ARE TO FACE UNLESS SPECIFIED OTHERWISE.
2. FINISHES ARE TO BE INDICATED ON SECTIONS AND DETAILS.
3. SEE GENERAL NOTES FOR FURTHER INFORMATION.

CONSTRUCTION DOCUMENTS - WINDOW SCHEDULE AND REPAIRMENT

SCHOOL NO. 5
PATTERSON
PATERSON, MIDDLE COUNTY

AN ASSOCIATES
ARCHITECTS
1000 ROUTE 208
MOUNTAIN VIEW, N.J. 07048

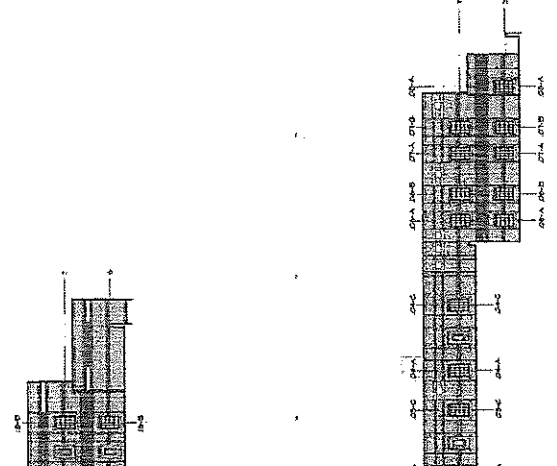
DATE: 03/01/2002
DRAWING NO.: 2002-03-001

SCALE: AS SHOWN
OVERALL OPTIONS
BELOW

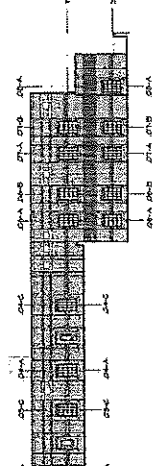
DATE: 03/01/2002
DRAWING NO.: 2002-03-001

STATE OF NEW JERSEY
DEPARTMENT OF TREASURY AND REVENUE
OFFICE OF REVENUE ADMINISTRATION

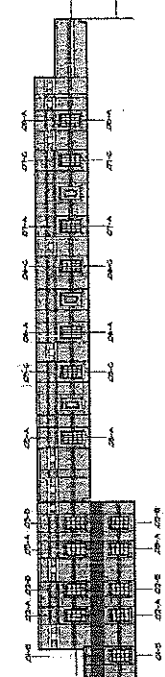
STATE OF NEW JERSEY
DEPARTMENT OF TREASURY AND REVENUE
OFFICE OF REVENUE ADMINISTRATION



1 WEST ELEVATION BEYOND
SCALE: 1/32" = 1'-0"
REV. 1/1/02



3 NORTH ELEVATION BEYOND
SCALE: 1/32" = 1'-0"
REV. 1/1/02



2 SOUTH ELEVATION BEYOND
SCALE: 1/32" = 1'-0"
REV. 1/1/02

NOTE:
1. ALL WINDOW UNITS SHALL BE INSTALLED IN ACCORDANCE WITH THE WINDOW SCHEDULE AND REPAIRMENT SCHEDULE ON PAGE 2002-03-001.

LIMITED HAZARDOUS MATERIALS INSPECTION REPORT

**ASBESTOS-CONTAINING MATERIAL
LEAD-BASED PAINT
POLYCHLORINATED BIPHENYLS**

**Paterson Public School No. 5
430 Totowa Avenue
Paterson, New Jersey 07502**

August 28, 2017

Prepared for:

**EI Associates
8 Ridgedale Avenue
Cedar Knolls, New Jersey 07927**

Project No. 16-0166



1805 Atlantic Avenue
Manasquan, New Jersey 08736
Tel: (732) 223-2225
Fax: (732) 223-3666
www.brinkenv.com

TABLE OF CONTENTS

1.0 INTRODUCTION.....1

2.0 BUILDING DESCRIPTION1

3.0 INSPECTION METHODOLOGY1

 3.1 Asbestos-Containing Materials 1

 3.2 Lead-Based Paint 1

 3.3 Polychlorinated Biphenyls 2

4.0 INSPECTION FINDINGS2

 4.1 Asbestos-Containing Materials 2

 4.2 Lead-based Paint 3

 4.3 Polychlorinated Biphenyls 3

5.0 RECOMMENDATIONS.....3

 5.1 Asbestos Containing Materials 3

 5.2 Polychlorinated Biphenyls 3

6.0 LIMITATIONS4

APPENDICES

Appendix A: Summary of Materials Sampled and Analytical Results – Suspect ACM

Appendix B: Identified ACM

Appendix C: Photographic Documentation – ACM

Appendix D: Laboratory Analysis Results – Suspect ACM

Appendix E: XRF Results

Appendix F: Summary of Materials Sampled and Analytical Results – PCBs

Appendix G: Laboratory Analysis Results – PCBs

Appendix H: Inspector Certifications

1.0 INTRODUCTION

Brinkerhoff Environmental Services, Inc. (Brinkerhoff) was contracted EI Associates, to perform a limited inspection for Asbestos, Lead-based Paint, and Polychlorinated Biphenyls of the roof system and building exterior at Paterson Public School No. 5 (the subject building) located at 430 Totowa Avenue, Paterson, New Jersey 07502. Brinkerhoff performed the limited inspection on August 17th, 2017. The purpose of the inspection was to identify asbestos-containing material (ACM), Lead-Based Paint (LBP), and Polychlorinated Biphenyls (PCBs) that may be disturbed during planned renovation activities of the roof and building exterior. Our inspection was limited to the scope of the planned renovation activities for the Paterson School No. 5 that included the roof system and building exterior.

2.0 BUILDING DESCRIPTION

The Paterson Public School No. 5 is a four-story structure constructed in approximately 1939. The roof is a built-up roof system supported by wood and metal trusses. Exterior walls consist of concrete and brick. Exterior doors and windows are metal.

3.0 INSPECTION METHODOLOGY

3.1 Asbestos-Containing Materials

Guidelines used for the asbestos inspection are established by the United States Environmental Protection Agency (USEPA) in the *Guidance for Controlling Asbestos Containing Materials in Buildings, Office of Pesticides and Toxic Substances*, DOC #560/5-85-024, and 40 Code of Federal Regulations (CFR) Part 763, Asbestos Hazard Emergency Response Act (AHERA). Field information was organized as per the AHERA concept of Homogeneous Area (HA). An HA is defined as a suspect material of similar age, appearance, and function. Each material was grouped together as a specific HA and then sampled accordingly.

Bulk samples of suspect building materials were analyzed by Polarized Light Microscopy (PLM) with dispersion staining for friable samples, as described in 40 CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAP) EPA600/R-93/116. Non-friable suspect materials determined to be negative for asbestos content by PLM were analyzed via Transmission Electron Microscopy (TEM) per 40 CFR Part 763 NESHAP EPA600/R-93/116. Bulk samples were submitted to International Asbestos Testing Laboratories (IATL) located at 9000 Commerce Parkway, Suite B, Mount Laurel, New Jersey. IATL is accredited to perform asbestos bulk sample analysis by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP).

3.2 Lead-Based Paint

Brinkerhoff's New Jersey-certified Lead-based Paint Inspector/Risk Assessor conducted a limited lead-based paint inspection in order to identify LBP-coated surfaces on the building's exterior decorative terracotta walls. A portable Niton XLp 300A Lead-based Paint Analyzer (Serial No. 92957) utilizing X-Ray Fluorescence (XRF) technology was used to perform the

limited lead-based paint inspection. The United States Department of Housing and Urban Development's *Guidelines for the Evaluation and Control of Lead Based Paint Hazards in Housing, Second Edition, June 2012* (HUD Guidelines) define lead-based paint as equal to or greater than one-point-zero (1.0) milligrams per centimeter squared (mg/cm²) or 0.5 percent (%) lead by weight.

For the purpose of this limited lead-based paint inspection, the sides of the subject building are identified as "A", "B", "C", and "D". The "A" wall corresponds to the street address side of the subject building and tested building components are labeled in a clockwise fashion from that point.

3.3 Polychlorinated Biphenyls

Brinkerhoff conducted an inspection for potential PCB containing building materials. The PCB inspection was limited to caulking and related materials associated with the roof system and building exterior. PCB caulk is defined as a PCB bulk product waste, and its disposal is subject to USEPA regulations under the Toxic Substances Control Act (TSCA). The USEPA regulates the disposal of caulk, as well as soil and other building materials contaminated with PCB from caulk, if the concentration of PCB is equal to or greater than 50 (≥ 50) parts per million (PPM).

Field information for building materials (i.e., caulking) was organized using the concept of HAs. Samples were obtained for analysis of various potential PCB-containing building materials located throughout the roof and building exterior of the subject building.

Bulk samples of PCBs were submitted to ALPHA Analytical (ALPHA), located at 8 Walkup Drive, Westborough, Massachusetts, for analysis via method USEPA 3540C/8082A. ALPHA is accredited to perform PCB bulk sample analysis by the National Environmental Laboratory Accreditation Conference (NELAC) under the National Environmental Laboratory Accreditation Program (NELAP). ALPHA's Westborough laboratory maintains NJ NELAP #MA935.

4.0 INSPECTION FINDINGS

4.1 Asbestos-Containing Materials

USEPA/AHERA-certified Asbestos Inspectors from Brinkerhoff performed an inspection of the subject building. Brinkerhoff identified a total of 16 building materials that were suspected to contain asbestos minerals. A summary of these suspect materials is presented in **Appendix A**.

Of the 16 suspect building materials identified, one (1) building material was determined to contain >1% asbestos. ACM that was confirmed by laboratory analysis and approximate quantification of those materials is summarized in **Appendix B**. Photographic documentation of ACM is provided in **Appendix C**. Laboratory analytical data of suspect ACM is presented in **Appendix D**.

Materials Containing Trace Amounts of Asbestos

Two (2) building materials were reported by the laboratory to contain asbestos at concentrations less than one percent (<1%) or contain “trace” amounts of asbestos (<0.25%). Those materials are not considered ACM, and the presence of trace amounts of asbestos fibers does not indicate the need for abatement. This is a common finding and may be caused by such conditions as cross contamination introduced during installation or contamination in binding materials (i.e., contaminated talc in caulk). These materials are included in **Appendix A** and have not been quantified.

4.2 Lead-based Paint

Brinkerhoff utilized a portable Niton XLp 300A Lead-based Paint Analyzer to perform a limited inspection for LBP. XRF readings were taken from accessible painted decorative terracotta wall surfaces that may be disturbed during renovation activities. A total of six (6) XRF readings were recorded, excluding calibration checks. A summary of XRF results is presented in **Appendix E**. The lead-based paint inspection results indicated no lead concentrations equal to or greater than one-point-zero (1.0) milligrams per centimeter squared (mg/cm²) on tested terracotta wall surfaces.

4.3 Polychlorinated Biphenyls

None of the materials tested for PCBs were determined to have concentrations of PCBs equal to or greater than 50 parts per million (≥ 50 PPM). A summary of materials tested for PCBs is provided in **Appendix F**. Laboratory analysis results for PCBs are presented in **Appendix G**.

5.0 RECOMMENDATIONS

5.1 Asbestos Containing Materials

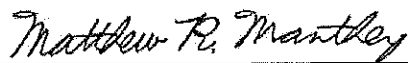
One (1) material was determined to contain >1% asbestos and are identified as ACM. For all materials determined to be ACM and that will be disturbed by renovation activities, asbestos abatement shall be performed in accordance with the applicable portions of the State of New Jersey Department of Labor and Workforce Development (NJDOLWD), New Jersey Administrative Code (N.J.A.C.) 12:120 and 5:23-8, by a contractor licensed by NJDOLWD for asbestos removal. The NJDOLWD, the New Jersey Department of Health, and the USEPA must be notified in writing prior to the commencement of any abatement activities.

6.0 LIMITATIONS

This Limited Hazardous Materials Inspection Report is based upon visual observations of accessible areas of the roof system and building exterior. The approximate quantities of ACM presented herein are based upon observations of readily accessible areas. It is possible that additional ACM, LBP, and PCBs containing material may exist in inaccessible areas, behind walls or in concealed spaces. Inaccessible areas may include interstitial sections inside walls, floors, ceilings, mechanical equipment, electrical cabinets and panels, underground pipe and equipment lines, tunnels, and/or their systems. Any ACM, LBP, or PCBs found during construction or renovation activities, either not addressed in this inspection report, or similar to the ACM, LBP, PCBs identified in this report should be presumed to be ACM, LBP, or PCB containing material until sampling and analysis documents confirm otherwise.

This report was prepared and is respectfully submitted by:

BRINKERHOFF ENVIRONMENTAL SERVICES, INC.



Matthew R. Mantley
USEPA/AHERA Asbestos Building Inspector
NJDOH Lead Inspector/Risk Assessor

August 28, 2017

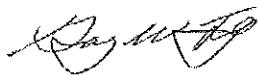
Date



Duane A. Shinton
USEPA/AHERA Asbestos Building Inspector

August 28, 2017

Date



Gary W. Fleming
Senior Manager, Hazardous Materials Division

August 28, 2017

Date

APPENDIX A

**SUMMARY OF MATERIAL SAMPLED AND ANALYTICAL RESULTS –
SUSPECT ACM**

Appendix A
430 Totowa Avenue, Paterson, New Jersey 07502
Summary of Materials Sampled and Analytical Results

Homogenous Area	Suspect Material Description	Sample Numbers	Analytical Results
01	Roofing Core	01A, 01B, 01C, 01D	<0.25% Tremolite; <0.25% Chrysotile
02	Exterior Door Caulk	02A, 02B	ND
03	Brick and Mortar	03A, 03B	ND
04	Exterior Window Caulk	04A, 04B	ND
05	Roofing Tar	05A, 05B	10% Chrysotile
06	Roof Flashing	06A, 06B	ND
07	Parapet Wall Caulk	07A, 07B	<0.25% Chrysotile

Legend: ND= None Detected, Results in bold contain >1% Asbestos.

APPENDIX B
IDENTIFIED ACM

Appendix B
430 Totowa Avenue, Paterson, New Jersey 07502
Identified Asbestos Containing Materials

Homogenous Area	Material Description	Material Location	Friability	Approximate Quantity of Material
05	Roofing Tar	Throughout Roof System Below Perimeter Parapet Walls	Non-Friable	3,200 SF

Legend: SF= Square Foot, LF= Linear Foot

APPENDIX C

PHOTOGRAPHIC DOCUMENTATION - ACM

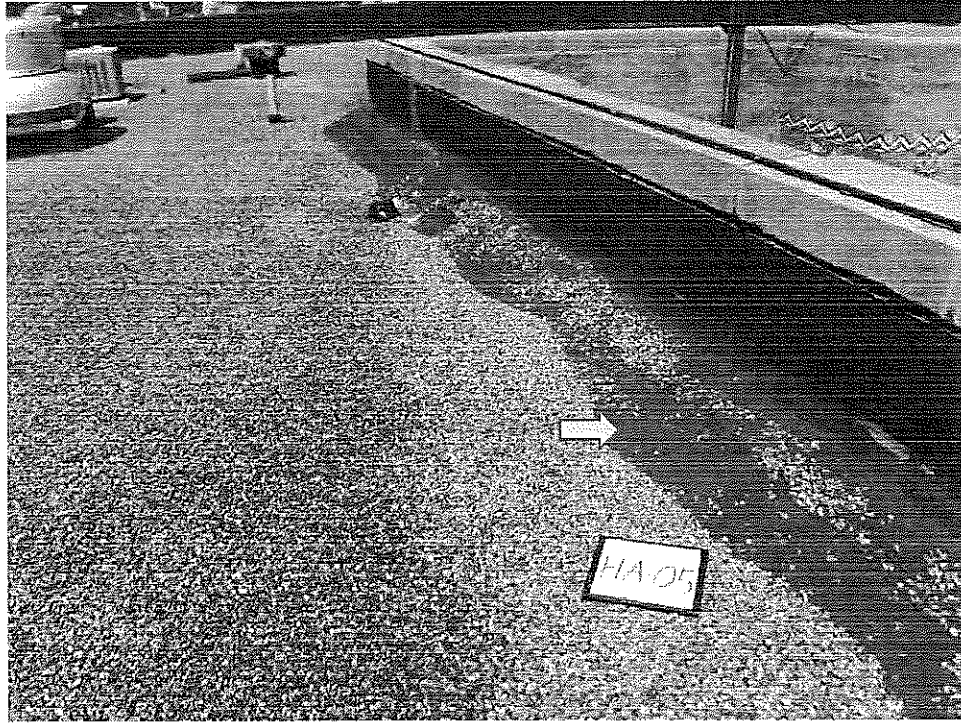


Photo: Roofing Tar

Location: Throughout Roof System
Below Perimeter Parapet Walls

430 Totowa Avenue,
Paterson, NJ

Prepared By: MM

BRINKERHOFF
ENVIRONMENTAL SERVICES, INC.

El Associates

DESIGN	16-0166
CHECKED	Figure
GF	P-1

APPENDIX D

LABORATORY ANALYSIS RESULTS – SUSPECT ACM

CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc,
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 8/24/2017
Report No.: 544403 - PLM
Project: School #5 430 Totowa Avenue, Paterson, NJ
Project No.: 16-0166

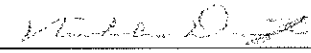
Client: BRI493

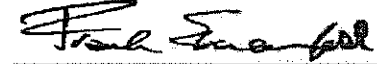
PLM BULK SAMPLE ANALYSIS SUMMARY

<p>Lab No.: 6319873 Client No.: 01A</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p>Description: Yellow Foam Facility:</p> <p><u>Percent Non-Asbestos Fibrous Material:</u> None Detected</p>	<p>Location: 3rd Floor</p> <p><u>Percent Non-Fibrous Material:</u> 100</p>
<p>Lab No.: 6319874 Client No.: 01B</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p>Description: Yellow Foam Facility:</p> <p><u>Percent Non-Asbestos Fibrous Material:</u> None Detected</p>	<p>Location: Stairwell Roof</p> <p><u>Percent Non-Fibrous Material:</u> 100</p>
<p>Lab No.: 6319875 Client No.: 01C</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p>Description: Yellow Foam Facility:</p> <p><u>Percent Non-Asbestos Fibrous Material:</u> None Detected</p>	<p>Location: 2nd Floor Front Roof</p> <p><u>Percent Non-Fibrous Material:</u> 100</p>

Analytical Method - US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis

Date Received: 8/19/2017
Date Analyzed: 08/22/2017

Signature: 
Analyst: Nick Daigle

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc,
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 8/24/2017
Report No.: 544403 - PLM
Project: School #5 430 Totowa Avenue, Paterson, NJ
Project No.: 16-0166

Client: BRI493

PLM BULK SAMPLE ANALYSIS SUMMARY

<p>Lab No.: 6319878(L2) Client No.: 02B</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p>Description: Grey/Tan Cementitious Facility:</p> <p><u>Percent Non-Asbestos Fibrous Material:</u> None Detected</p>	<p>Location: Exterior Door</p> <p><u>Percent Non-Fibrous Material:</u> 100</p>
--	--	---

<p>Lab No.: 6319879 Client No.: 03A</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p>Description: Yellow Brick Facility:</p> <p><u>Percent Non-Asbestos Fibrous Material:</u> None Detected</p>	<p>Location:</p> <p><u>Percent Non-Fibrous Material:</u> 100</p>
--	---	---

<p>Lab No.: 6319879(L2) Client No.: 03A</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p>Description: Red Brick Facility:</p> <p><u>Percent Non-Asbestos Fibrous Material:</u> None Detected</p>	<p>Location:</p> <p><u>Percent Non-Fibrous Material:</u> 100</p>
--	--	---


<p>Lab No.: 6319879(L3) Client No.: 03A</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p>Description: Grey Mortar Facility:</p> <p><u>Percent Non-Asbestos Fibrous Material:</u> None Detected</p>	<p>Location:</p> <p><u>Percent Non-Fibrous Material:</u> 100</p>
--	--	---

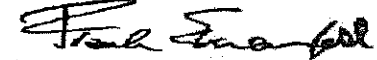
<p>Lab No.: 6319880 Client No.: 03B</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p>Description: Red Brick Facility:</p> <p><u>Percent Non-Asbestos Fibrous Material:</u> None Detected</p>	<p>Location:</p> <p><u>Percent Non-Fibrous Material:</u> 100</p>
--	--	---

<p>Lab No.: 6319880(L2) Client No.: 03B</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p>Description: Grey Mortar Facility:</p> <p><u>Percent Non-Asbestos Fibrous Material:</u> None Detected</p>	<p>Location:</p> <p><u>Percent Non-Fibrous Material:</u> 100</p>
--	--	---

Analytical Method - US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis

Date Received: 8/19/2017
Date Analyzed: 08/22/2017

Signature: 
Analyst: Nick Daigle

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 8/24/2017
Report No.: 544403 - PLM
Project: School #5 430 Totowa Avenue, Paterson, NJ
Project No.: 16-0166

Client: BRI493

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6319883
Client No.: 05A

Description: Black Tar
Facility:

Location:

Percent Asbestos:
10 Chrysotile

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
90

Lab No.: 6319884
Client No.: 05B

Description: Sample Not Analyzed
Facility:

Location:

Percent Asbestos:
Sample Not Analyzed

Percent Non-Asbestos Fibrous Material:
Sample Not Analyzed

Percent Non-Fibrous Material:

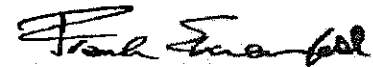
Not Analyzed/RTP

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

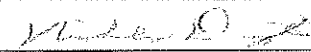
Date Received: 8/19/2017

Approved By:

Date Analyzed: 08/22/2017



Signature:



Frank E. Ehrenfeld, III

Analyst: Nick Daigle

Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 8/24/2017
Report No.: 544403 - PLM
Project: School #5 430 Totowa Avenue, Paterson, NJ
Project No.: 16-0166

Client: BRI493

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6319887(L2)
Client No.: 07A

Description: White Cementitious
Facility:


Location:

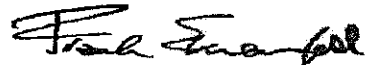
Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Analytical Method - US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 8/19/2017
Date Analyzed: 08/22/2017
Signature: 
Analyst: Nick Daigle

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 8/24/2017
Report No.: 544403 - PLM
Project: School #5 430 Totowa Avenue, Paterson, NJ
Project No.: 16-0166

Client: BRI493

Appendix to Analytical Report

Customer Contact: Jason Hooper
Analysis: US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager: cdavis@iatl.com
iATL Account Representative: Pete Lesniak
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk Building Materials
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NY-DOH No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)>

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 8/24/2017
Report No.: 544403 - PLM
Project: School #5 430 Totowa Avenue, Paterson, NJ
Project No.: 16-0166

Client: BRI493

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.123%.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gangue, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.
- 2) **Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.
- 3) **Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.
- 4) **Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.
- 5) **Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses

*With advance notice and confirmation by the laboratory.

**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 8/24/2017
Report No.: 544403 - PLM - TEM NOB
Project: School #5 430 Totowa Avenue, Paterson, NJ
Project No.: 16-0166

Client: BRI493

TEM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6319873(L2)
Client No.: 01A
Description: Brown Roof Material
% Asbestos Detected:
None Detected

Facility:
Location: 3rd Floor

% Non-Asbestos Fibrous Material:
None Detected

Organic Fraction: 48.4 %
Gravimetrically Reduced Subsample: 51.6 %

% Non-Fibrous Material:
51.6 Other

Lab No.: 6319873(L3)
Client No.: 01A
Description: Grey Tar Paper
% Asbestos Detected:
Trace Tremolite, Detected at <0.25%

Facility:
Location: 3rd Floor

% Non-Asbestos Fibrous Material:
None Detected

Organic Fraction: 87.7 %
Gravimetrically Reduced Subsample: 12.3 %

% Non-Fibrous Material:
12.3 Other

Lab No.: 6319873(L4)
Client No.: 01A
Description: Black Tar
% Asbestos Detected:
None Detected

Facility:
Location: 3rd Floor

% Non-Asbestos Fibrous Material:
Trace SiAl, Other Fiber

Organic Fraction: 91.7 %
Gravimetrically Reduced Subsample: 8.3 %

% Non-Fibrous Material:
8.3 Other

Lab No.: 6319874(L2)
Client No.: 01B
Description: Black Roof Material
% Asbestos Detected:
None Detected

Facility:
Location: Stairwell Roof

% Non-Asbestos Fibrous Material:
19.6 SiAl, Other Fiber

Organic Fraction: 72.0 %
Gravimetrically Reduced Subsample: 28.0 %

% Non-Fibrous Material:
8.4 Other

Lab No.: 6319874(L3)
Client No.: 01B
Description: Black Tar
% Asbestos Detected:
None Detected


Facility:
Location: Stairwell Roof

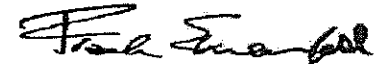
% Non-Asbestos Fibrous Material:
15.2 SiAl, Other Fiber

Organic Fraction: 49.5 %
Gravimetrically Reduced Subsample: 50.5 %

% Non-Fibrous Material:
35.4 Other

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 8/19/2017
Date Analyzed: 08/23/2017
Signature: 
Analyst: Rebecca Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 8/24/2017
Report No.: 544403 - PLM - TEM NOB
Project: School #5 430 Totowa Avenue, Paterson, NJ
Project No.: 16-0166

Client: BR1493

TEM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6319875(L2)
Client No.: 01C
Description: Brown Roof Material

% Asbestos Detected:
None Detected

Facility:
Location: 2nd Floor Front Roof

% Non-Asbestos Fibrous Material:
10.8 SiAl, Other Fiber

Organic Fraction: 64.0 %
Gravimetrically Reduced Subsample: 36.0 %

% Non-Fibrous Material:
25.2 Ti, Titanium Oxide
Other

Lab No.: 6319875(L3)
Client No.: 01C
Description: Grey Tar Paper

% Asbestos Detected:
None Detected

Facility:
Location: 2nd Floor Front Roof

% Non-Asbestos Fibrous Material:
0.1 SiAl, Other Fiber

Organic Fraction: 93.9 %
Gravimetrically Reduced Subsample: 6.1 %

% Non-Fibrous Material:
6 Ti, Titanium Oxide
Other

Lab No.: 6319875(L4)
Client No.: 01C
Description: Black Tar

% Asbestos Detected:
*Trace Chrysotile, Detected at
<0.25%*

Facility:
Location: 2nd Floor Front Roof

% Non-Asbestos Fibrous Material:
None Detected

Organic Fraction: 99.9 %
Gravimetrically Reduced Subsample: 0.1 %

% Non-Fibrous Material:
0.1 Other

Lab No.: 6319876
Client No.: 01D
Description: Brown Roof Material

% Asbestos Detected:
None Detected

Facility:
Location: 3rd Floor Lower Roof

% Non-Asbestos Fibrous Material:
None Detected

Organic Fraction: 98.4 %
Gravimetrically Reduced Subsample: 1.6 %

% Non-Fibrous Material:
1.6 Ti, Titanium Oxide
Other

Lab No.: 6319876(L2)
Client No.: 01D
Description: Black Roof Material

% Asbestos Detected:
None Detected


Facility:
Location: 3rd Floor Lower Roof

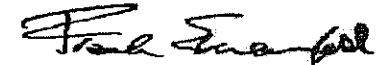
% Non-Asbestos Fibrous Material:
16.6 SiAl, Other Fiber

Organic Fraction: 72.3 %
Gravimetrically Reduced Subsample: 27.7 %

% Non-Fibrous Material:
11.1 Other

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 8/19/2017
Date Analyzed: 08/23/2017
Signature: 
Analyst: Rebecca Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 8/24/2017
Report No.: 544403 - PLM - TEM NOB
Project: School #5 430 Totowa Avenue, Paterson, NJ
Project No.: 16-0166

Client: BRI493

TEM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6319876(L3)
Client No.: 01D
Description: Black Tar
% Asbestos Detected:
None Detected

Facility:
Location: 3rd Floor Lower Roof
% Non-Asbestos Fibrous Material:
7.4 SiAl, Other Fiber

Organic Fraction: 75.2 %
Gravimetrically Reduced Subsample: 24.8 %
% Non-Fibrous Material:
17.4 Ti, Titanium Oxide
Other

Insufficient sample provided to verify results <100mg.

Lab No.: 6319877
Client No.: 02A
Description: Grey Caulk
% Asbestos Detected:
None Detected

Facility:
Location: Exterior Door
% Non-Asbestos Fibrous Material:
None Detected


Organic Fraction: 85.2 %
Gravimetrically Reduced Subsample: 14.8 %
% Non-Fibrous Material:
14.8 Other

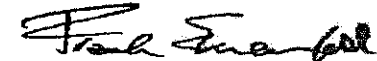
Lab No.: 6319878
Client No.: 02B
Description: Grey Caulk
% Asbestos Detected:
None Detected

Facility:
Location: Exterior Door
% Non-Asbestos Fibrous Material:
None Detected

Organic Fraction: 95.6 %
Gravimetrically Reduced Subsample: 4.4 %
% Non-Fibrous Material:
4.4 Other

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 8/19/2017
Date Analyzed: 08/23/2017
Signature: 
Analyst: Rebecca Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 8/24/2017
Report No.: 544403 - PLM - TEM NOB
Project: School #5 430 Totowa Avenue, Paterson, NJ
Project No.: 16-0166

Client: BRI493

TEM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6319881
Client No.: 04A
Description: White Caulk

Facility:
Location: Exterior

Organic Fraction: 93.9 %
Gravimetrically Reduced Subsample: 6.1 %

% Asbestos Detected:
None Detected

% Non-Asbestos Fibrous Material:
None Detected

% Non-Fibrous Material:
6.1 Other

Lab No.: 6319882
Client No.: 04B
Description: White Caulk

Facility:
Location: Exterior

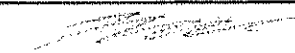
Organic Fraction: 82.6 %
Gravimetrically Reduced Subsample: 17.4 %

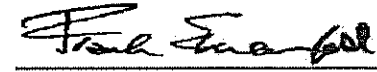
% Asbestos Detected:
None Detected

% Non-Asbestos Fibrous Material:
None Detected

% Non-Fibrous Material:
17.4 Other

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 8/19/2017
Date Analyzed: 08/23/2017
Signature: 
Analyst: Rebecca Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 8/24/2017
Report No.: 544403 - PLM - TEM NOB
Project: School #5 430 Totowa Avenue, Paterson, NJ
Project No.: 16-0166

Client: BRI493

TEM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6319885
Client No.: 06A
Description: Black Tar

Facility:
Location:

Organic Fraction: 67.7 %
Gravimetrically Reduced Subsample: 32.3 %

% Asbestos Detected:
None Detected

% Non-Asbestos Fibrous Material:
None Detected

% Non-Fibrous Material:
32.3 Other

Lab No.: 6319886
Client No.: 06B
Description: Black Tar

Facility:
Location:

Organic Fraction: 85.7 %
Gravimetrically Reduced Subsample: 14.3 %

% Asbestos Detected:
None Detected

% Non-Asbestos Fibrous Material:
8.6 SiAl, Other Fiber

% Non-Fibrous Material:
5.7 Other

Please refer to the Appendix of this report for further information regarding your analysis.

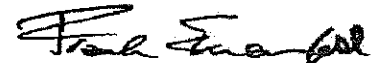
Date Received: 8/19/2017

Date Analyzed: 08/24/2017

Signature:

Analyst: Craig Liska

Approved By:



Frank E. Ehrenfeld, III

Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 8/24/2017
Report No.: 544403 - PLM - TEM NOB
Project: School #5 430 Totowa Avenue, Paterson, NJ
Project No.: 16-0166

Client: BRI493

TEM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6319887
Client No.: 07A
Description: White Caulk

Facility:
Location:


Organic Fraction: 62.9 %
Gravimetrically Reduced Subsample: 37.1 %

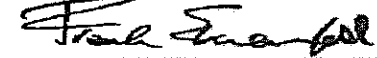
% Asbestos Detected:
None Detected

% Non-Asbestos Fibrous Material:
Trace SIAL, Other Fiber

% Non-Fibrous Material:
37.1 Other

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 8/19/2017
Date Analyzed: 08/23/2017
Signature: 
Analyst: Rebecca Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 8/24/2017
Report No.: 544403 - PLM - TEM NOB
Project: School #5 430 Totowa Avenue, Paterson, NJ
Project No.: 16-0166

Client: BRI493

TEM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6319888
Client No.: 07B
Description: White Caulk

Facility:
Location:

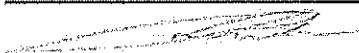
Organic Fraction: 49.3 %
Gravimetrically Reduced Subsample: 50.7 %

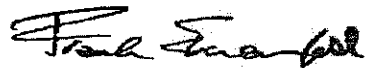
% Asbestos Detected:
Trace Chrysotile, Detected at
<0.25%

% Non-Asbestos Fibrous Material:
None Detected

% Non-Fibrous Material:
50.7 Other

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 8/19/2017
Date Analyzed: 08/24/2017
Signature: 
Analyst: Craig Liska

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 8/24/2017
Report No.: 544403 - PLM - TEM NOB
Project: School #5 430 Totowa Avenue, Paterson, NJ
Project No.: 16-0166

Client: BRI493

Appendix to Analytical Report:

Customer No.: BRI493
Customer: Brinkerhoff Environmental Services Inc.
Address: 1805 Atlantic Avenue
Customer Contact: Jason Hooper
Analysis: ELAP Section 198.4

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager: cdavis@iatl.com
iATL Account Representative: Pete Lesniak

Project Summary:

Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk material, Non-Friable Organically Bound material such as VSF, FT, M, RM, Tar, CB, Shingle, Tar Paper, Caulk, Glazing

Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by ELAP Section 198.4

Certification: NIST-NVLAP No. 101165-0
NY-DOH No. 11021
AIHA-LAP, LLC No. 100188

CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 8/24/2017
Report No.: 544403 - PLM - TEM NOB
Project: School #5 430 Totowa Avenue, Paterson, NJ
Project No.: 16-0166

Client: BRI493

All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

The "Gravimetrically Reduced Subsample" is the portion of the submitted sample remaining following the ashing and acid treatment processes. TEM analysis occurs on this portion of the sample.

Final results are calculated to represent the sample as submitted. Results are verifiable for only those operations and analyses performed in the laboratory.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

- (1)Note: Sample not analyzed.
- (2)Note: Sample not analyzed at request of client.
- (3)Note: Sample analysis terminated. Clearance criteria exceeded (average >70.0 s/mm²). Set fails by AHERA 40 CFR 763.
- (4)Note: Heavy loading (>0.1 s/cc) of non-asbestos particulate that might prohibit the required morphological, diffraction and elemental identification of asbestos. The absence of asbestos on the sample can not be concluded. Analysis for informational purposes only.
- (5)Note: Heavy loading ($>10\%$ per grid opening) non-fibrous particulate. Sample analysis terminated. Clearance criteria exceeded ($>10\%$). Sample voided by AHERA 40 CFR 763.
- (5A)Note: Heavy loading ($>25\%$ per grid opening) non-fibrous particulate. Sample analysis terminated. Clearance criteria exceeded ($>25\%$). Sample voided by NIOSH 7402.
- (6)Note: Sample turbidity >1.0 NTU. Therefore MDL $\gg 0.1$ MFL. Does not meet National Primary Drinking Water Standards.
- (7)Note: Sample integrity compromised. Received sample cassette with top open (40 CFR 763 c-e).
- (8)Note: Received sample cassettes with portion of filter missing. "PCM re-prep"
- (9)Note: Void - overloaded, unable to prep.
- (10)Note: Void - filter damaged.
- (11)Note: No volume supplied.
- (12)Note: Heavy loading (>0.1 s/cc) of non-asbestos / non-fibrous particulate.
- (13)Note: Method analytical sensitivity of <0.003 s/cc not attained due to volume of air sampled. NIOSH requires a minimum of 400L.
- (13A)Note: Volume does not meet AHERA requirements. (<1188 L)
- (14)Note: Geometric Mean = 0.xxxx Structures/cc
- (15)Note: Samples received on 0.8 micron PCM filters. Samples must be submitted on 0.45 micron filter cassettes per AHERA guidelines
- (18)Note: *Results are for informational purposes only. Samples received on 0.8um PCM cassettes. Per AHERA 40 CFR 763 guidelines samples must be obtained on a 0.45um cassette.
- (TEM NOB 1) Note: The above result represents only the analysis of NOB-residue submitted from the client.
- (TEM NOB 2) Note: Insufficient material (<100 mg) to verify results.



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054
 Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody

-Bulk Asbestos-

Contact Information *Brinkerhoff*

Client Company: *Environmental Services* Project Number: *16-0166*

Office Address: *1805 Atlantic Avenue* Project Name: *School #5 ⁽⁴²⁰⁾ 430 Tetonia Avenue, Paterson, NJ*

City, State, Zip: *Monmouth, NJ 08736* Primary Contact: *Gary Fleming*

Fax Number: *732-223-3666* Office Phone: *732-223-2125*

Email Address: *Hazmat Group* Cell Phone: _____

PLM Instructions:

PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993

PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982

PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985

PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002

PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010

TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009

PLM: Point Counting

PC: via ELAP 198.1

PC: 400 Points

PC: 800 Points *

PC: 1600 Points *

PLM: Analyze Until Positive (Positive Stop)

AUP: by Homogenous Area as Noted

AUP: by Material Type as Noted

PLM: NOB via 198.6

PLM: Friable via EPA 600 2.3

If <1% by PLM, to TEM via 198.4 *

If <1% by PLM, Hold for Instructions

PLM: Instructions for Multi-Layered Samples

Analyze and Report All Separable Layers per EPA 600

Report Composite for Drywall Systems per NESHAP

Report All Layers and Composite Where Applicable

Only Analyze and Report Specifically Noted Layer

PLM: Non-Building Material*** (Dust, Wipe, Tape)

Soil or Vermiculite Analysis

CARB 435

Special Instructions: *Friables by PLM; NOBs by TEM*

* Additional charge and turnaround may be required ** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory

Turnaround Time

Preliminary Results Requested Date: _____

Verbal Email Fax

10 Day 5 Day 3 Day 2 Day 1 Day* 12 Hour** 6 Hour** RUSH**

* End of next business day unless otherwise specified. ** Matrix Dependent. *** Please notify the lab before shipping***

Chain of Custody

Relinquished (Name/Organization): *Matthew Mandley* Date: *8/18/17* Time: *1:15 PM*

Received (Name / iATL): _____ Date: _____ Time: _____

Sample Login (Name / iATL): _____ Date: _____ Time: _____

Analysis (Name(s) / iATL): *MD 8/22/17* Date: *8-24-17* Time: *AUG 19 2017*

QA/QC Review (Name / iATL): _____ Date: _____ Time: _____

Archived / Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

LAB = BY PLM

TEM RS 8/23/17

Celebrating 25 years...one sample at a time
 www.iatl.com

ANALYZED TEM: *PLM* 8/23/17

Sample Log

Brinkerhoff -Bulk Asbestos- *16-0166*
Client: *Environmental Services* Project: *School #5-430 Totowa Avenue, Paterson, NJ*
Sampling Date/Time: *8/18/17*

Bulk Asbestos Sample Log			
Client Sample #	IATL #	Location/Description	Notes
<i>01A</i>	<i>6319873</i>	<i>Roofing Core (Daylight)- 3rd Floor Roof</i>	
<i>01B</i>	<i>6319874</i>	<i>Roofing Core - Stairwell Roof</i>	
<i>01C</i>	<i>6319875</i>	<i>Roofing Core -2nd Floor Front Roof</i>	
<i>01D</i>	<i>6319876</i>	<i>Roofing Core -3rd Floor Lower Roof</i>	
<i>02A</i>	<i>6319877</i>	<i>Exterior Door Caulk</i>	
<i>02B</i>	<i>6319878</i>	↓	
<i>03A</i>	<i>6319879</i>	<i>Brick+Mortar</i>	
<i>03B</i>	<i>6319880</i>	↓	
<i>04A</i>	<i>6319881</i>	<i>Exterior Window Caulk</i>	
<i>04B</i>	<i>6319882</i>	↓	
<i>05A</i>	<i>6319883</i>	<i>Roofing Tar</i>	
<i>05B</i>	<i>6319884</i>	↓	
<i>06A</i>	<i>6319885</i>	<i>Roof Flashing</i>	
<i>06B</i>	<i>6319886</i>	↓	
<i>07A</i>	<i>6319887</i>	<i>Parapet Wall Caulk</i>	
<i>07B</i>	<i>6319888</i>	↓	

APPENDIX E
XRF RESULTS

XRF Results - Paterson Public School #5
 430 Totowa Avenue, Paterson, NJ 07502

Location	Component	Substrate	Side	Condition	Color	Results	PbC
Shutter_Cal							1.29
			Calibrate	SRM_2573	Red	Positive	
			Calibrate	SRM_2573	Red	Negative	1.1
			Calibrate	SRM_2573	Red	Negative	0.9
Exterior	Wall	Terracota	C	Poor	Red	Negative	0.9
Exterior	Wall	Terracota	C	Poor	Yellow	Negative	-0.1
Exterior	Wall	Terracota	C	Poor	Yellow	Negative	0.02
Exterior	Wall	Terracota	D	Poor	Green	Negative	-0.04
Exterior	Wall	Terracota	B	Poor	Blue	Negative	0.01
Exterior	Wall	Terracota	B	Poor	Blue	Negative	0.06
			Calibrate	SRM_2573	Red	Negative	0.11
			Calibrate	SRM_2573	Red	Negative	0.9
			Calibrate	SRM_2573	Red	Negative	0.9
			Calibrate	SRM_2573	Red	Negative	0.9

APPENDIX F

SUMMARY OF MATERIALS SAMPLED AND ANALYTICAL RESULTS – PCBs

Paterson Public School No. 5
Summary of Materials Sampled and Analytical Results - PCBs

Suspect Material Description	HA/Sample Numbers	Total PCBs (mg/kg)
Exterior Door Caulk	02-PCB	ND
Exterior Window Caulk	04-PCB	ND
Parapet Wall Caulk	07-PCB	ND

Legend: PCB = Polychlorinated Biphenyl, mg/kg = milligram/kilogram, ND = None Detected

APPENDIX G

LABORATORY ANALYSIS RESULTS – PCBS



ANALYTICAL REPORT

Lab Number:	L1729226
Client:	Brinkerhoff Environmental Services, Inc. 1805 Atlantic Ave. Manasquan, NJ 08736
ATTN:	Gary Fleming
Phone:	(732) 223-2225
Project Name:	SCHOOL #5
Project Number:	16-0166
Report Date:	08/25/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAC00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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



Serial_No:08251716:17

Project Name: SCHOOL #5
Project Number: 16-0166

Lab Number: L1729226
Report Date: 08/25/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1729226-01	02-PCB	CAULK	430 TOTOWA AVENUE, PATERSON, NJ	08/17/17 16:00	08/19/17
L1729226-02	04-PCB	CAULK	430 TOTOWA AVENUE, PATERSON, NJ	08/17/17 16:31	08/19/17
L1729226-03	07-PCB	CAULK	430 TOTOWA AVENUE, PATERSON, NJ	08/17/17 17:11	08/19/17

Project Name: SCHOOL #5
 Project Number: 16-0166

Lab Number: L1729226
 Report Date: 08/25/17

**NJ DEP Data of Known Quality Protocols
 Conformance/Non-Conformance
 Summary Questionnaire**

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	NO
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature ($4 \pm 2^{\circ}$ C)?	NO
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	YES
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	YES
5b	Were these reporting limits met?	NO
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	NO

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".



Project Name: SCHOOL #5
Project Number: 16-0166

Lab Number: L1729226
Report Date: 08/25/17

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

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

HOLD POLICY

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

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

Project Name: SCHOOL #5
Project Number: 16-0166

Lab Number: L1729226
Report Date: 08/25/17

Case Narrative (continued)

Report Submission

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

DKQP Related Narratives

Sample Receipt

In reference to question 1a:

L1729226-01, -02 and -03: The samples were received in inappropriate containers for the PCBs analysis.

In reference to question 3:

The samples were received at the laboratory above the required temperature range. The samples were received at the laboratory in a cooler but were not on ice. The client was notified of the exceedance, and all requested analyses were performed.

PCBs

In reference to question 5b:

L1729226-01, -02 and -03: One or more of the target analytes did not achieve the requested regulatory limits.

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

Authorized Signature:



Amita Naik

Title: Technical Director/Representative

Date: 08/25/17

ORGANICS

PCBS



Project Name: SCHOOL #5
Project Number: 16-0166

Lab Number: L1729226
Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1729226-01
Client ID: 02-PCB
Sample Location: 430 TOTOWA AVENUE, PATERSON, NJ
Matrix: Caulk
Analytical Method: 1,8082A
Analytical Date: 08/25/17 12:05
Analyst: JW
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Date Collected: 08/17/17 16:00
Date Received: 08/19/17
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 08/23/17 18:00
Cleanup Method: EPA 3630
Cleanup Date: 08/25/17
Cleanup Method: EPA 3665A
Cleanup Date: 08/25/17
Cleanup Method: EPA 3660B
Cleanup Date: 08/25/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.615	0.175	1	A
Aroclor 1221	ND		mg/kg	0.615	0.180	1	A
Aroclor 1232	ND		mg/kg	0.615	0.137	1	A
Aroclor 1242	ND		mg/kg	0.308	0.110	1	A
Aroclor 1248	ND		mg/kg	0.615	0.173	1	A
Aroclor 1254	ND		mg/kg	0.615	0.126	1	A
Aroclor 1260	ND		mg/kg	0.615	0.138	1	A
Aroclor 1262	ND		mg/kg	0.615	0.127	1	A
Aroclor 1268	ND		mg/kg	0.308	0.109	1	A
PCBs, Total	ND		mg/kg	0.308	0.109	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	111		30-150	A
Decachlorobiphenyl	111		30-150	A
2,4,5,6-Tetrachloro-m-xylene	108		30-150	B
Decachlorobiphenyl	90		30-150	B



Project Name: SCHOOL #5
Project Number: 16-0166

Lab Number: L1729226
Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1729226-02
Client ID: 04-PCB
Sample Location: 430 TOTOWA AVENUE, PATERSON, NJ

Matrix: Caulk
Analytical Method: 1,8082A
Analytical Date: 08/25/17 12:17
Analyst: JW
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Date Collected: 08/17/17 16:31
Date Received: 08/19/17
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 08/23/17 18:00
Cleanup Method: EPA 3630
Cleanup Date: 08/25/17
Cleanup Method: EPA 3665A
Cleanup Date: 08/25/17
Cleanup Method: EPA 3660B
Cleanup Date: 08/25/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.641	0.182	1	A
Aroclor 1221	ND		mg/kg	0.641	0.188	1	A
Aroclor 1232	ND		mg/kg	0.641	0.143	1	A
Aroclor 1242	ND		mg/kg	0.320	0.115	1	A
Aroclor 1248	ND		mg/kg	0.641	0.180	1	A
Aroclor 1254	ND		mg/kg	0.641	0.131	1	A
Aroclor 1260	ND		mg/kg	0.641	0.144	1	A
Aroclor 1262	ND		mg/kg	0.641	0.132	1	A
Aroclor 1268	ND		mg/kg	0.320	0.113	1	A
PCBs, Total	ND		mg/kg	0.320	0.113	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	103		30-150	A
Decachlorobiphenyl	101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	101		30-150	B
Decachlorobiphenyl	72		30-150	B



Project Name: SCHOOL #5
Project Number: 16-0166

Lab Number: L1729226
Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1729226-03
Client ID: 07-PCB
Sample Location: 430 TOTOWA AVENUE, PATERSON, NJ

Matrix: Caulk
Analytical Method: 1,8082A
Analytical Date: 08/25/17 12:30
Analyst: JW
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Date Collected: 08/17/17 17:11
Date Received: 08/19/17
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 08/23/17 18:00
Cleanup Method: EPA 3630
Cleanup Date: 08/25/17
Cleanup Method: EPA 3665A
Cleanup Date: 08/25/17
Cleanup Method: EPA 3660B
Cleanup Date: 08/25/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.566	0.161	1	A
Aroclor 1221	ND		mg/kg	0.566	0.166	1	A
Aroclor 1232	ND		mg/kg	0.566	0.126	1	A
Aroclor 1242	ND		mg/kg	0.283	0.101	1	A
Aroclor 1248	ND		mg/kg	0.566	0.159	1	A
Aroclor 1254	ND		mg/kg	0.566	0.116	1	A
Aroclor 1260	ND		mg/kg	0.566	0.127	1	A
Aroclor 1262	ND		mg/kg	0.566	0.117	1	A
Aroclor 1268	ND		mg/kg	0.283	0.100	1	A
PCBs, Total	ND		mg/kg	0.283	0.100	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: SCHOOL #5
 Project Number: 16-0166

Lab Number: L1729226
 Report Date: 08/25/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 08/25/17 10:14
 Analyst: JW

Extraction Method: EPA 3540C
 Extraction Date: 08/23/17 18:00
 Cleanup Method: EPA 3630
 Cleanup Date: 08/25/17
 Cleanup Method: EPA 3665A
 Cleanup Date: 08/25/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 08/25/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG1034795-1						
Aroclor 1016	ND		mg/kg	0.660	0.187	A
Aroclor 1221	ND		mg/kg	0.660	0.193	A
Aroclor 1232	ND		mg/kg	0.660	0.147	A
Aroclor 1242	ND		mg/kg	0.330	0.118	A
Aroclor 1248	ND		mg/kg	0.660	0.185	A
Aroclor 1254	ND		mg/kg	0.660	0.135	A
Aroclor 1260	ND		mg/kg	0.660	0.148	A
Aroclor 1262	ND		mg/kg	0.660	0.136	A
Aroclor 1268	ND		mg/kg	0.330	0.116	A
PCBs, Total	ND		mg/kg	0.330	0.116	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	73		30-150	B



Lab Control Sample Analysis
Batch Quality Control

Project Name: SCHOOL #5
Project Number: 16-0166

Lab Number: L1729226
Report Date: 08/25/17

Parameter	LCS		LCSD		%Recovery		RPD		RPD Limits	Column
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits	RPD	Qual		
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1034795-2 WG1034795-3										
Aroclor 1016	84		74		40-140		13		30	A
Aroclor 1260	95		88		40-140		8		30	A

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		66		30-150	A
Decachlorobiphenyl	53		80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		65		30-150	B
Decachlorobiphenyl	63		61		30-150	B



Serial_No:08251716:17
 Lab Number: L1729226
 Report Date: 08/25/17

Project Name: SCHOOL #5
 Project Number: 16-0166

Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

Cooler Information
 Cooler A Custody Seal Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1729226-01A	Bag	A	NA		21.5	Y	Absent		NJ-8082-CAULK(14)
L1729226-02A	Bag	A	NA		21.5	Y	Absent		NJ-8082-CAULK(14)
L1729226-03A	Bag	A	NA		21.5	Y	Absent		NJ-8082-CAULK(14)



Project Name: SCHOOL #5
Project Number: 16-0166

Lab Number: L1729226
Report Date: 08/25/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCS/D	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: SCHOOL #5
 Project Number: 16-0166

Lab Number: L1729226
 Report Date: 08/25/17

Data Qualifiers

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

- C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I - The lower value for the two columns has been reported due to obvious interference.
- M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R - Analytical results are from sample re-analysis.
- RE - Analytical results are from sample re-extraction.
- S - Analytical results are from modified screening analysis.
- J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: SCHOOL #5
Project Number: 16-0166

Lab Number: L1729226
Report Date: 08/25/17

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc.
 Facility: Company-wide
 Department: Quality Assurance
 Title: Certificate/Approval Program Summary

ID No.:17873
 Revision 10
 Published Date: 1/16/2017 11:00:05 AM
 Page 1 of 1

Certification Information

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

Westborough Facility

EPA 624: m/p-xylene, o-xylene
 EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
 EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.
 EPA 300: DW: Bromide
 EPA 6860: NPW and SCM: Perchlorate
 EPA 9010: NPW and SCM: Amenable Cyanide Distillation
 EPA 9012B: NPW: Total Cyanide
 EPA 9050A: NPW: Specific Conductance
 SM3500: NPW: Ferrous Iron
 SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.
 SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS
 EPA 3005A NPW
 EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.
 EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
 Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO₃-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B
 EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.
 Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH₃-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO₃-F, EPA 353.2: Nitrate-N, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO₄-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.
 EPA 624: Volatile Halocarbons & Aromatics,
 EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
 EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.
 Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E.

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca, EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. EPA 245.1 Hg.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
 EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
 EPA 245.1 Hg.
 SM2340B

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

NEW JERSEY CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-852-9200 FAX: 508-856-9153		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12255: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>1</u> of <u>1</u>		Date Rec'd in Lab <u>8/19/17</u> ALPHA Job # <u>1729226</u>	
Project Name: <u>School #5</u> Project Location: <u>430 Totowa Avenue, Paterson, NJ</u> Project # <u>16-0168</u>		Project: <u>School #5</u> Project Name as Project #: <u>16-0168</u>		<input type="checkbox"/> Same as Client Info PO #		<input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQUS (1 File) <input type="checkbox"/> EQUS (4 File) <input type="checkbox"/> Other	
Client: <u>Brinkerhoff Environmental</u> Address: <u>1805 Atlantic Avenue, Manasquan, NJ</u> Phone: <u>732-223-2225</u> Fax: <u>732-223-3666</u> Email: <u>gfleming@brink.com</u>		Project Manager: <u>Gary Fleming</u> ALPHA Quote #: Turn Around:		<input checked="" type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJ IGW SPLP Leachate Criteria <input type="checkbox"/> Other		Is this site impacted by Petroleum? Yes <input type="checkbox"/> Petroleum Product	
These samples have been previously analyzed by Alpha For VOC, selection is REQUIRED: <input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2 <input type="checkbox"/> 1,4-Dioxane <input type="checkbox"/> 8011		Rush (only if pre approved) <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Due Date: <u>8/18/17</u> # of Days:		ANALYSIS <u>PCBS</u>		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments	
Sample ID <u>29226-01</u> <u>02-PCB</u> <u>04-PCB</u> <u>07-PCB</u>		Collection Date Time <u>8/17/17 4:00pm</u> <u>4:31pm</u> <u>5:17pm</u>		Sample Matrix <u>Soil</u> <u>Soil</u> <u>Soil</u>		Samplers Initials <u>MM</u> <u>MM</u> <u>MM</u>	
ALPHA Lab ID (Lab Use Only)		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Date/Time <u>8/19/17 10:37</u>	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Nb ₂ S ₂ O ₇ KIE = Zn AcNaOH O = Other		Relinquished By: <u>Matthew Mantley</u>		Date/Time <u>8/18/17</u>		Received By: <u>[Signature]</u>	
Form No: 01-14 HC (rev. 30-Sept-2013)		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)					

Please also send results to mmantley@brinkenv.com and cglowacki@brinkenv.com
 Page 18 of 19

Serial No: 0825171617

FedEx Express Package US Airbill

Tracking Number 8119 7660 6378

1 From Date

Sender's Name _____ Phone _____

Company _____

Address _____

City _____ State _____ ZIP _____

City _____ State _____ ZIP _____

2 Your Internal Billing Reference _____

3 To Recipient's Name _____

Company _____

Address _____

Address _____

City _____ State _____ ZIP _____



8119 7660 6378

SDR

FedEx Express

Monday Delivery

15'957 REV 708 HRD

Form ID No 0215

4 Express Package Service

Package up to 150 lbs. For packages over 150 lbs. call Express Freight Service.

FedEx 2D by AM. Signature required. Signature required. Signature required.

FedEx 2D by PM. Signature required. Signature required. Signature required.

FedEx Standard Overnight. Signature required. Signature required. Signature required.

5 Packaging

FedEx Envelope* FedEx Pak* FedEx Tube Other

6 Special Handling and Delivery Signature Options

Saturday Delivery Not available for FedEx Standard Overnight, FedEx 2D by AM, or FedEx Express Saver.

No Signature Required Direct Signature Indirect Signature

Signature Required Signature Required Signature Required

No Yes Yes Yes Yes Yes

7 Payment Bill To

Sender Recipient Third Party Credit Card Cash/Check

Total Packages _____ Total Weight _____

Enter FedEx Account No. or Credit Card No. below.

R1 B999 2 12:00 6378 08.19

ST 8

FedEx TRACKING 8119 7660 6378 0215

SATURDAY 12:00P PRIORITY OVERNIGHT

X0 BBFA

01581 MA-US

fedex.com 1.800.GoFedEx 1.800.463.3339

fedex.com 1.800.GoFedEx 1.800.463.3339

APPENDIX H
INSPECTOR CERTIFICATIONS

49789

National Asbestos & Environmental Training Institute

CERTIFICATE OF COMPLETION

ASBESTOS/HERA Accredited Per 40 CFR Part 763
Asbestos Accreditation under TSCA Title II

This is to certify that

Matthew R. Manthey

Successfully completed the course entitled

**1/2-Day New York State/EPA/AHERA Asbestos Building Inspector Annual Refresher on
June 1, 2017**

Examination Passed June 1, 2017

Expiration Date on June 1, 2018


Doris L. Adler
President, NAEIT

Per 10 NYCRR Part 73.2 (L) (1), DOH 2832 Certificate of Completion of Asbestos
Safety Training is the only official record of training for N.Y.S. students.

Language: English

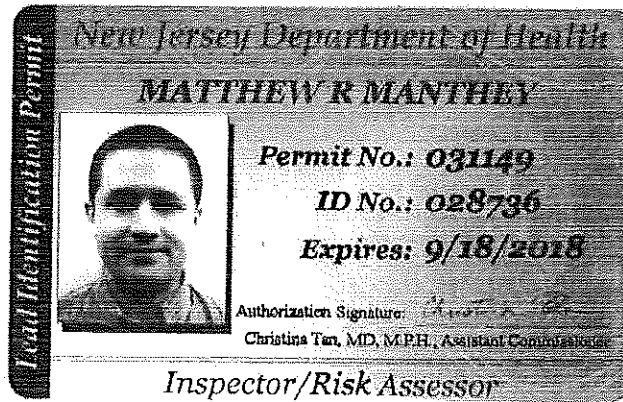
ABIH 1/2 CM POINT

3321 Doris Avenue, Building B, Ocean, NJ 07712

Phone (732) 531-5571

Fax (732) 531-5956

www.naeti.com



This PERMIT has been issued in accordance with N.J.A.C. 8:62. You MUST have this PERMIT with you any time you are performing work for which it is required. Failure to carry this PERMIT or altering or falsifying this PERMIT may result in a civil administrative PENALTY of up to \$1,000 per day for the first offense and up to \$5,000/day for each subsequent offense. Each day shall constitute an additional and separate offense.

To report a lost or stolen PERMIT, defects to a PERMIT, or to find out how to renew a PERMIT, contact the NJ DOH (see below).

E-mail: iep.program@doh.nj.gov Telephone: 609-826-4950
 Web: www.state.nj.us/health/eohap Fax: 609-826-4975
 Address: NJ DOH, CEOHS, EOHAP
 PO Box 372, Trenton, NJ 08625-0372

If this PERMIT is found abandoned, please send to the above address.

<u>Issued By</u>	<u>Card Number</u>	<u>Issue Date</u>
<u>D.A</u>	<u>031149-1</u>	<u>7/14/2016</u>

50245

National Asbestos & Environmental Training Institute

CERTIFICATE OF COMPLETION

AHERA/EPA Accredited Per 40 CFR Part 763
Asbestos Accreditation under TSCA Title II

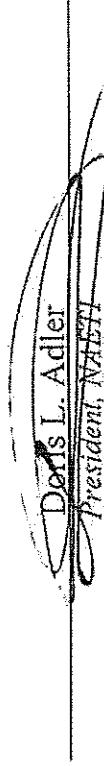
This is to certify that

Duane Shinton

Successfully completed the course entitled

**1/2-Day EPA/AHERA Asbestos Building Inspector Annual Refresher on
August 1, 2017**

Expiration Date on August 1, 2018


Doris L. Adler
President, NAEFI

Per 10 NYCRR Part 73.2 (L) (1), DOH 2832 Certificate of Completion of Asbestos
Safety Training is the only official record of training for N.Y.S. students.

Language: English

ABIH 1/2 CM POINT

3321 Doris Avenue, Building B, Ocean, NJ 07712

Phone (732) 531-5571

Fax (732) 531-5956

www.naefi.com