ADDENDUM #3

Project Name:
ISD Elem. School & Outreach Bld. Fire Alarm Replacement
DAS# 9381.00
RFB 938100-01
Addendum #3
Dated: March 04, 2024

This Addendum forms a part of the bidding and contract documents. This Addendum supersedes and supplements all portions of the original bidding and contract documents dated Feb. 02, 2024 with which it conflicts.

ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE BID FORM. FAILURE TO DO SO MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

1) CLARIFICATIONS

A. **BIDS DUE DATE REVISED**: Bids must be received no later than **10:00 am, Thursday, March 7, 2024**. Late bids will not be considered. Bids shall be submitted on IMPACS Electronic Procurement System. The Bid shall be accompanied by a Bid Security as set forth in the Instructions to Bidders in the amount of 5% of the total bid amount. Each bid shall be accompanied by a bid bond, cashier's check or a certified check drawn upon a solvent bank chartered under the laws of the United States of America.

B. Hazardous materials reports are provided for reference and are attached to this addendum. Hazardous materials abatement is by owner (State of Iowa).

C. Lead containing paint and lead based paint have been identified in the Outreach Building that may impact the construction of the fire alarm system components. The fire alarm contractor shall coordinate layout of devices, conduits, penetrations, pathways, and misc. fire alarm components with the construction manager and the States abatement contractor for removal of lead containing paint and lead based paint that would affect such items.

D. Asbestos containing material has been identified in the Elementary Building that may impact the construction of the fire alarm system components. The fire alarm contractor shall coordinate layout of devices, conduits, penetrations, pathways, and misc. fire alarm components with the construction manager and the States abatement contractor for removal of asbestos containing material that would affect such items.

E. The fire alarm contractor shall coordinate layout of devices, conduits, penetrations, pathways, and misc. fire alarm components with the construction manager. The intent is to coordinate the layout of the fire alarm system to reduce the hazardous materials contractor to four site visits.

2) PLANS

A. No Items

3) QUESTIONS AND CLARIFICATIONS

A. No items.

4) SUBSTITUTION REQUESTS

A. No items.

5) ATTACHMENTS

A. Revised Notice to Bidders

B. Hazardous Building. Materials Survey Report, ISD Outreach Bld. – Fire Alarm Replacement Project, Atlas Proj. ID : 204BS06748 (27 pages)

C. Hazardous Building. Materials Survey Report, Elementary School Bld. – Fire Alarm Replacement Project, Atlas Proj. ID : 204BS06743 (30 pages)

END OF ADDENDUM

HAZARDOUS BUILDING MATERIALS SURVEY REPORT

PREPARED FOR:

Samuels Group
2929 Westown Parkway, Suite 200
Des Moines, Iowa 50266

PROJECT LOCATION:

Iowa School for the Deaf – Outreach Building
Fire Alarm Replacement Project
3501 Harry Langdon Boulevard
Council Bluffs, Iowa

Project Date: January 26, 2024

Report Date: February 6, 2024

Atlas Project ID: 204BS06748

PREPARED BY:

Atlas Technical Consultants
4503 E 50th Street, Suite 800
Des Moines, IA 50317

February 6, 2024

Samuels Group
Mr. Jerry Dehnke
2929 Westown Parkway, Suite 200
Des Moines, Iowa 50266

Re: Hazardous Building Materials Survey Report
Iowa School for the Deaf – Outreach Building
Fire Alarm Replacement Project
Council Bluffs, Iowa
Atlas Project Number: 204BS06748

Atlas is pleased to submit the attached Hazardous Building Materials Survey Report for the above-referenced site. The survey was limited to surfaces and materials that would be impacted by planned fire alarm replacement activities. This report includes procedures, methodologies and analytical laboratory results.

Atlas appreciates the opportunity to perform these services for the IDAS and the Samuels Group, and we look forward to working with you in the future. If you need any assistance with the implementation of the recommendations contained in this report, please feel free to give us a call at (402)670-3842 and we will respond promptly to your needs.

Sincerely,

ATLAS TECHNICAL CONSULTANTS, LLC

Chase Bucknell
Iowa Inspector
(402) 697-9747

Steve Hudson, MS, CIH
Senior Project Manager
(402) 670-3842

T A B L E O F C O N T E N T S

ATLAS

H A Z A R D O U S B U I L D I N G M A T E R I A L S S U R V E Y R E P O R T

Iowa School for the Deaf – Outreach Building
Fire Alarm Replacement Project
3501 Harry Langdon Boulevard
Council Bluffs, Iowa
Atlas Project Number: 204BS06748

1.0 SCOPE OF SERVICES

The purpose of this project was to perform a survey for hazardous building materials that may be impacted by planned fire alarm replacement activities at the above-referenced property.

Atlas provided a representative hazardous materials survey in accordance with the referenced agreement and as outlined below:

1. Review any existing hazardous building material survey reports relating to the site, if available.
2. Identify suspect asbestos-containing materials (ACM), surface coatings potentially containing lead paint, and hazardous building materials within the planned work areas.
3. Collect and analyze bulk samples of suspect asbestos containing materials and collect paint chip samples from representative surface coatings potentially containing lead-based or lead-containing paint.
4. Provide laboratory analysis of collected samples.
5. Provide a report of findings with copies and interpretation of analytical results and identifying the locations of asbestos-containing materials, lead paint, and hazardous building materials.

2.0 GENERAL SITE CONDITIONS

The survey was conducted at the Outreach Building located at the Iowa School for the Deaf in Council Bluffs, Iowa. The survey area was limited to the areas to be disturbed as part of planned fire alarm replacement activities.

3.0 ASBESTOS SURVEY

On January 26, 2024, areas expected to be impacted by planned renovation activities were inspected for asbestos-containing building materials by inspector Jazhan Amill of Atlas. Mr. Amill has completed the requisite training for asbestos accreditation as inspector at a state approved training provider under TSCA Title II. Mr. Amil's State of Iowa Inspector number is #22-8633.

The planned renovation work areas were visually inspected for the presence of suspect asbestos-containing materials (ACM). Materials that were hidden, not accessible, or when sampled would damage the integrity of the structure, were not sampled as part of this survey. Materials visibly identified as non-asbestos (fibrous glass, foam rubber, wood, etc.) were not sampled. The asbestos survey consisted of three basic steps: **1)** a visual inspection of the proposed work areas; **2)** a determination of homogeneous areas with suspect surfacing, thermal system insulation, and miscellaneous materials; and **3)** sampling accessible, friable and non-friable, suspect materials.

3.1 Regulation Review

The U.S. EPA qualifies asbestos-containing materials (ACM) as materials with an asbestos content greater than 1%. The following definitions are taken from Section 61.141 of Subpart M, Part 61 of Title 40: Protection of Environment of the Code of Federal Regulations (CFR).

- "Category I non-friable asbestos-containing material (ACM)" is defined as asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1% asbestos as determined using the method specified in appendix E, subpart E, 40 CFR part 763, section 1, Polarized Light Microscopy (PLM).

- "Category II non-friable ACM" is defined as any material, excluding Category I non-friable ACM, containing more than 1% asbestos as determined using the methods specified in appendix E, subpart E, 40 CFR part 763, section 1, PLM that, when dry, ***cannot*** be crumbled, pulverized, or reduced to powder by hand pressure.

- "Friable asbestos material" is defined as any material containing more than 1% asbestos as determined using the methods specified in appendix E, subpart E, 40 CFR part 763, section 1, PLM that when dry, ***can*** be crumbled, pulverized, or reduced to powder by hand pressure. If the asbestos content is less than 10% as determined by a method other than point counting by PLM, verify the asbestos content by point counting using PLM.

3.2 Homogeneous Areas

Prior to sampling, homogeneous areas were identified in order to facilitate a sampling strategy. A homogeneous sampling area can be described as one or more areas with suspect material similar in appearance and texture that have the same installation date and function. The actual number of samples collected from each

homogeneous sampling area may vary, dependent upon material type and the professional judgment of the inspector.

3.3 Sampling Strategy

The sampling strategy incorporated AHERA requirements, quantities of suspect material, and the inspector's judgment to aid in the identification of suspect asbestos-containing materials. If the analytical results indicated that all the samples collected per homogeneous area did not contain asbestos, then the homogeneous area (material) was considered non-asbestos-containing. However, if the analytical results of one or more of the samples collected per homogeneous area indicated that asbestos was present in quantities greater than one percent asbestos (as defined by EPA), all of the homogeneous area (material) was treated as an asbestos-containing material regardless of any other analytical results. Materials which were visually determined to be non-asbestos (i.e. fibrous glass, foam rubber, etc.) by the accredited inspector were not required to be sampled. Actual collection of a bulk asbestos sample involves physically removing approximately one square inch (1 in^2) of material and placing it in an airtight sample container. Sample containers were marked with a unique identification number, which was documented in the field notes.

3.4 Suspect Asbestos-Containing Materials

The following table contains a list of the eighteen (18) identified suspect asbestos containing materials sampled:

TABLE 1: SUSPECT ASBESTOS MATERIALS

MATERIAL	LOCATION	SAMPLE NUMBER
2x2 White Small Fissured Ceiling Tile	Floor 1 - North Entrance & Lobby	1-3
Plaster Ceilings	Floor 1 - North Entrance, Restroom Hall & Storage Room	4-6
Drywall / Joint Compound on Walls	Floor 1 – North Entrance, South Restroom Hall Floor 2 – North Office	7-12
2x4 White Pinhole / Fissure Ceiling Tile	Floor 2 – Storage Room, Room 211	13-15
2x4 White Pinhole / Ridges Ceiling Tile	Floor 2 – North Office	16
Brown Wall Mastic	Floor 2 – North Office	17
2x4 White Pinhole Ceiling Tile	Floor 2 – South Office	18

The following table is a summary of the suspect asbestos-containing materials that have been determined, through laboratory analysis, to contain asbestos:

TABLE 2: ASBESTOS-CONTAINING MATERIALS				
MATERIAL	**LOCATION**	**SAMPLE NUMBER**	**APPROX. QUANTITY**	**ASBESTOS CONTENT**
No Asbestos Containing Materials were Identified				

3.5 Laboratory Analytical Results

Bulk samples were analyzed by EMSL Analytical, Inc. located at 200 Route 130 North, Cinnaminson, NJ. Polarized Light Microscope analysis, utilizing dispersion staining techniques (ref.: EPA Method 600/M4-82-020), was performed to determine the asbestos content of the bulk samples collected at the site. This laboratory is currently a proficient participant in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Analytical Testing Program; a quality assurance program for polarized light microscopy analysis. Any material that contains greater than one percent asbestos is considered an ACM and must be handled according to Occupational Safety and Health Administration (OSHA), EPA, and all applicable state and local regulations.

Laboratory test results are provided in Appendix A.

4.0 LEAD PAINT SURVEY

On January 26, 2024, the Iowa School for the Deaf was inspected for lead paint by Mr. Steve Hudson and Mr. Jazhan Amill of Atlas. The purpose of the survey was to identify locations and concentrations of lead in paints and coatings on interior building components that may be disturbed as part of planned fire alarm replacement activities.

4.1 Inspection

The lead survey was performed in general accordance with the U.S. Housing and Urban Development Chapter 7 of the *Guidelines for the evaluation and Control of Lead-Based Paint Hazards in Housing* (1997 Revision). Survey criteria included the inspection and sampling of the representative painted surfaces on the interior of the building.

Regulatory limits from the Housing and Urban Development (HUD) and the Environmental Protection Agency (EPA) establishes that lead-based paint (LBP)

by definition is paint that contains more than 0.5% of lead in paint. OSHA's "Lead in Construction Standard" (29 CFR 1926.1101) addresses any concentration of lead in paint ("lead-containing paint").

Prior to demolition or renovation activities, all contractors involved should be notified regarding the presence of painted components under the guidelines of the OSHA Lead in Construction standard 29 CFR 1926.62. Care should be exercised in acknowledging that the OSHA 29 CFR 1926.62 has no LBP threshold definition and is concerned with exposures generated by LBP disturbances, which may include materials containing less than 0.5% lead by weight. The OSHA regulations are based strictly on airborne lead concentrations; therefore, the measured lead concentration of the paint and the method of paint disturbance will both factor into the potential airborne hazard.

OSHA requires the contractor to inform its employees of potential lead hazards, based upon the work being performed. The purpose of OSHA's Lead Construction Standard is to reduce the exposure to lead for all construction workers. It is for this reason that Atlas recommends contractors be informed of the presence of lead. OSHA's standard includes an 8-hour time weighted average (TWA) of 50 micrograms of lead per cubic meter of air (mg/m^3) and an action level (regardless of respirator use) of 30 mg/m^3.

Prior to disposal of debris that contains materials that have been found to contain lead, conduct a Toxicity Characteristic Leaching Procedures (TCLP) on representative solid wastes. This will determine if the debris requires a hazardous waste disposal site. A TCLP was not collected as part of this current inspection.

4.2 Lead Paint Testing

A total of eight (8) surface coatings were tested to determine the concentration of lead. The sampling generally involved the collection of the paint on the surface down to the substrate over an area of approximately 2 to 3 square inches. A summary of the tested paints is provided in the table below. In order for a surface coating to be considered a lead-based paint, the paint must contain lead in concentrations greater than 0.5% by weight. A detectable concentration of lead in the surface coating below 0.5% by weight is considered a lead-containing paint. The full copy of the lead analytical results is included in Appendix A.

Lead Paint Sampling Summary				
Sample ID	**Sample Location**	**Representative Material**	**Paint Color**	**Lead Content %**
P-1	Basement – Ceiling	Concrete	White	<0.015
P-2	Basement – Walls & Columns	Concrete	Yellow	<0.017
P-3	1st Floor – Ceiling North Entrance	Plaster	White	0.054

Lead Paint Sampling Summary				
Sample ID	**Sample Location**	**Representative Material**	**Paint Color**	**Lead Content %**
P-4	1st Floor – Wall - South Restroom Hall	Plaster	White	0.16
P-5	1st Floor- Wall - South Restroom Hall	Drywall	Blue	<0.014
P-6	2nd Floor – Wall - North Office Area	Drywall	Grey	0.075
P-7	2nd Floor – Wall – North Office Area	Plaster	Aqua	0.10
P-8	2nd Floor – Wall – South Office Area	Drywall	Grey	<0.015

- Lead-based paint was not identified in any of the surface coatings tested.
- Lead-containing paint was identified in 4 of the 8 surface coatings tested.

This evaluation report can help the Owner develop a plan for renovating the building by having concentrations of lead in the paint identified. It is our understanding that the information in this report will be provided to the contractors so that appropriate precautions can be made to minimize worker exposure to lead. If surface coatings with lead containing paint are handled improperly, exposure could occur to workers and future occupants of the facility.

5.0 HAZARDOUS MATERIALS ASSESSMENT

Atlas completed a visual inspection of rooms / areas throughout the intended work areas to identify hazardous wastes or universal wastes that may be impacted by planned renovation activities. The survey included a visual inspection of: light fixtures and other equipment for the presence of Polychlorinated Biphenyls (PCBs); light bulbs, thermostats, switches, and other equipment for the presence of mercury; refrigerants, batteries, and devices with potential radioactive materials.

TABLE 3: HAZARDOUS BUILDING MATERIALS		
Category	**Material**	**Estimated Quantity**
Poly-Chlorinated Biphenyl (PCBs)	Transformers	N/A
	Transistors	N/A
	Light Ballasts	N/A
Mercury	Thermostats	N/A
	Switches/Relays	N/A
	Fluorescent Light Tubes	N/A
	High Intensity Discharge lights	N/A

TABLE 3: HAZARDOUS BUILDING MATERIALS		
Category	**Material**	**Estimated Quantity**
	Thermometers/ Manometers	N/A
Batteries	Smoke Detectors	58
	Emergency Lighting Systems	N/A
	Exit Signs	10
	Flashing Fire Alarms	12
Chlorofluorocarbons (CFCs) or Hydro Chlorofluorocarbons (HCFCs)	Refrigerators/Freezers/Chillers	N/A
Low Level Radioactive Sources (LLR)	Smoke/Fire Alarms	N/A

Hazardous materials or universal wastes identified in Table 1 shall be removed as part of the renovation contractor's scope of work and disposed of according to US EPA Toxic Substances Control Act (TSCA) and the State of Iowa regulations.

6.0 CONCLUSIONS

The following conclusions are summarized as follows:

- No asbestos containing materials were identified.
- Lead-based paint was not identified in the surface coatings tested.
- Lead-containing paint was identified in 4 of the 8 surface coatings tested.

7.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions, and recommendations expressed in this report are based solely on conditions noted during the January 26, 2024, Atlas hazardous building materials survey of the Outreach Building located at the Iowa School for the Deaf in Council Bluffs, Iowa.

Atlas did not perform destructive sampling -- it was not within Atlas's scope of work to remove surface materials to investigate portions of the structure or materials that may lay beneath the surface -- thus, any materials that could not be visually identified on the surface were not inspected and would not be noted in this report. Atlas's selection of sample locations and frequency of sampling was based on the

inspector's assumption that like materials in the same area are homogeneous in content.

The report is designed to aid the building owner, architect, construction manager, general contractor, and potential abatement contractor in locating hazardous building materials. Under no circumstances is the report to be utilized as a bidding document or as a project specification document since it does not have all the components required to serve as a Project Design document or an Abatement Work plan.

Our professional services have been performed, our findings obtained, and our conclusions and recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This statement is in lieu of other statements either expressed or implied. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

This report is intended for the sole use of the IDAS and Samuels Group. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

APPENDIX A

ASBESTOS TEST RESULTS

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order:	042401855
Customer ID:	ATC55
Customer PO:	
Project ID:	

Attention:	Steve Hudson	**Phone:**	(402) 697-9747
	Atlas Technical	**Fax:**	(402) 597-8532
	11117 Mockingbird Drive	**Received Date:**	01/29/2024 11:00 AM
	Omaha, NE 68137	**Analysis Date:**	01/31/2024
		Collected Date:	01/26/2024

Project: 204BS06748 / Iowa DAS / Asbestos Testing / Outreach Building

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1 *042401855-0001*	Floor 1 - North Entrance - 2'x2' White Small Fissured Ceiling Tile	Tan Fibrous Homogeneous	40% Cellulose 20% Min. Wool	40% Non-fibrous (Other)	None Detected
2 *042401855-0002*	Floor 1 - North Entrance Hall - 2'x2' White Small Fissured Ceiling Tile	Tan Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
3 *042401855-0003*	Floor 1 - Lobby - 2'x2' White Small Fissured Ceiling Tile	Gray/White Fibrous Homogeneous	55% Cellulose 10% Min. Wool	35% Non-fibrous (Other)	None Detected
4-Plaster *042401855-0004*	Floor 1 - North Entrance - Plaster Ceiling	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4-Skim Coat *042401855-0004A*	Floor 1 - North Entrance - Plaster Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
5-Plaster *042401855-0005*	Floor 1 - North Restroom Hall - Plaster Ceiling	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
5-Skim Coat *042401855-0005A*	Floor 1 - North Restroom Hall - Plaster Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
6-Plaster *042401855-0006*	Floor 2 - Storage Rom - Plaster Ceiling	Gray Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
6-Skim Coat *042401855-0006A*	Floor 2 - Storage Rom - Plaster Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
7 *042401855-0007*	Floor 1 - North Entrance - Drywall	Brown/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
8 *042401855-0008*	Floor 1 - North Entrance - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
9 *042401855-0009*	Floor 1 - South Resrtoom Hall - Drywall	Brown/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
10 *042401855-0010*	Floor 1 - South Resrtoom Hall - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11 *042401855-0011*	Floor 2 - North Office - Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
12-Joint Compound *042401855-0012*	Floor 2 - North Office - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 02/01/2024 07:43:09

EMSL Analytical, Inc.
200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order:	042401855
Customer ID:	ATC55
Customer PO:	
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
12-Joint Compound 2 *042401855-0012A*	Floor 2 - North Office - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13 *042401855-0013*	Floor 2 - Storage Room - 2'x4' White Pinhole/Fissure Ceiling Tile	Tan Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
14 *042401855-0014*	Floor 2 - Storage Room - 2'x4' White Pinhole/Fissure Ceiling Tile	Tan Non-Fibrous Homogeneous	55% Cellulose 20% Min. Wool	25% Non-fibrous (Other)	None Detected
15 *042401855-0015*	Floor 2 - Rm 211 - 2'x4' White Pinhole/Fissure Ceiling Tile	Gray/White Fibrous Homogeneous	45% Cellulose 30% Min. Wool	25% Non-fibrous (Other)	None Detected
16 *042401855-0016*	Floor 2 - North Office Area - 2'x4' White Pinhole/Ridges Ceiling Tile	Tan Fibrous Homogeneous	40% Cellulose 20% Min. Wool	40% Non-fibrous (Other)	None Detected
17 *042401855-0017*	Floor 2 - North Office Area - Brown Wall Mastic behind Drywall	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18 *042401855-0018*	Floor 2 - South Office Area - 2'x4' White Pinhole Ceiling Tile	Tan/White Fibrous Homogeneous	45% Cellulose 35% Min. Wool	20% Non-fibrous (Other)	None Detected

Analyst(s)

Alex Francois (12)
Megan Bosch (10)

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 “Interim Method”) but augmented with procedures outlined in the 1993 (”final”) version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA LAP, LLC-IHLAP Lab 100194, PA ID# 68-00367, LA #04127

Initial report from: 02/01/2024 07:43:09

OrderID: 042401855

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only: 042401855

EMSL Analytical, Inc.
6340 Castleplace Dr.
Indianapolis, IN 46250
PHONE: (317) 803-2997
EMAIL: indianapolislab@emsl.c

If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization.

Customer Information

Customer ID:	
Company Name:	Atlas Technical Consultants, LLC
Contact Name:	Steve Hudson
Street Address:	11117 Mockingbird Drive
City, State, Zip:	Omaha NE 6813 Country: US
Phone:	14026703842
Email(s) for Report:	steve.hudson@oneatlas.com

Billing Information

Billing ID:	
Company Name:	Atlas Technical Consultants, LLC
Billing Contact:	Steve Hudson
Street Address:	11117 Mockingbird Drive
City, State, Zip:	Omaha NE 68137 Country: US
Phone:	14026703842
Email(s) for Invoice:	

Project Information

Project Name/No: 2048S06748
Purchase Order:
EMSL LIMS Project ID: (If applicable, EMSL will provide)
US State where samples collected: NE IA
State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)
Sampled By Name: STEVE Hudson
Sampled By Signature:
No. of Samples in Shipment

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 4-4.5 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

TEM Air 3-6 Hour, please call ahead to schedule. 32 Hour TAT available for select tests only; samples must be submitted by 11:30 am.

Test Selection

PCM Air
- ☐ NIOSH 7400
- ☐ NIOSH 7400 w/ 8hr. TWA

PLM - Bulk (reporting limit)
- ☒ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)
- ☐ POINT COUNT
  - ☐ 400 (<0.25%) ☐ 1,000 (<0.1%)
- POINT COUNT w/ GRAVIMETRIC
  - ☐ 400 (<0.25%) ☐ 1,000 (<0.1%)
- ☐ NIOSH 9002 (<1%)
- ☐ NYS 198.1 (Friable - NY)
- ☐ NYS 198.6 NOB (Non-Friable - NY)
- ☐ NYS 198.8 (Vermiculite SM-V)

TEM - Air
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312*

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (Non-Friable-NY)
- ☐ TEM EPA 600/R-93/116 w Milling Prep (0.1%)

Other Test (please specify)

TEM - Settled Dust
- ☐ Microvac - ASTM D5755
- ☐ Wipe - ASTM D6480
- ☐ Qualitative via Filtration Prep
- ☐ Qualitative via Drop Mount Prep

Soil - Rock - Vermiculite (reporting limit)*
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM Qualitative via Filtration Prep
- ☐ TEM Qualitative via Drop Mount Prep

*Please call with your project-specific requirements.

☐ Positive Stop - Clearly Identified Homogeneous Areas (HA) | Filter Pore Size (Air Samples) ☐ 0.8um ☐ 0.45um

RECEIVED EMSL CINCINNATI OH 2024 JAN 27 PM 4:46

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
	SEE ATTACHED		

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time: 1/26/24	Received by: FX	Date/Time 1/27/24 11:00
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - COC-05 Asbestos R15 4/23/2021

☒ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

Page 1 of 18

042401855

ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORM Page ___ of _

ATLAS

11117 Mockingbird Drive
Omaha, NE 68137

Phone (402) 697-9747
Fax (402) 597-8532

RECEIVED EMSL CINNAMINSON NJ 2024 JAN 27 A 10:56

Project Information

Client: TOWA DAS	Project Description: ASBESTOS TESTING	Project Manager: SRH Inspector: STEVE HUDSON
Date: 1/26/24	Site Location: OUTREACH BUILDING	ATLAS PROJECT NUMBER: 204BSO6748

BULK SAMPLE LOCATION

Sample #	Material Description	Floor	Sample Location	Quantity
1	2'x2' ceiling tile, white small fissured	1	North Entrance	
2	⊥	1	North Restroom Hall	
3	⊥	1	Lobby	
4	Plaster Ceiling	1	North Entrance	
5	⊥	1	North Restroom Hall	
6	⊥	2	Storage Room	
7	Drywall	1	North Entrance	
8	Joint Compound	1	⊥	
9	Drywall	1	South Restroom Hall	
10	Joint Compound	1	⊥	
11	Drywall	2	North Office	
12	Joint Compound	2	North Office	

042401855

ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORM Page ___ of _

ATLAS
11117 Mockingbird Drive
Omaha, NE 68137
Phone (402) 697-9747
Fax (402) 597-8532

Project Information

Client:	Project Description:	Project Manager: Inspector:
IOWA DAS	ASBESTOS TESTING	
Date: 1/26/24	Site Location: Outreach Building	ATLAS PROJECT NUMBER: 204BS06748

BULK SAMPLE LOCATION

Sample #	Material Description	Floor	Sample Location	Quantity
13	2'x4' CEILING TILE white pinhole/fissure	2	STORAGE ROOM	
14	"	2	"	
15	"	2	RM 211	
16	2'x4' CEILING TILE white pinhole/ridges	2	NORTH OFFICE AREA	
17	BROWN WALL MASTIC behind drywall	2	"	
18	2'x4' CEILING TILE white pinhole	2	SOUTH OFFICE AREA	

RECEIVED
EMSL
CINNAMINSON, NJ
2024 JAN 27 A 10:46

APPENDIX B

LEAD PAINT TEST RESULTS

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012406654
LIMS Reference ID: AC06654
EMSL Customer ID: ATC55

Attention: Allison Nichols
Atlas Technical [ATC55]
11117 Mockingbird Drive
Omaha, NE 68137
(402) 697-9747
Allison.Williams@oneatlas.com

Project Name: 204BS06748
Customer PO:
EMSL Sales Rep: Anthony DeRosa
Received: 01/29/2024 09:00
Reported: 01/30/2024 18:16

Analytical Results

Analyte	Results	RL	Weight(g)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: P-1/White Concrete Basement Ceiling Throughout									**Date Sampled: 01/26/24**
Matrix: Chips									**LIMS Reference ID: AC06654-01**
Lead	<0.015 % wt	0.015 % wt	0.265	01/29/24 LP	SW-846 3050B	01/30/24 pmx	SW846-7000B		1
	Sample Comments:								
Client Sample ID: P-2/Yellow Concrete Basement Walls and Columns									**Date Sampled: 01/26/24**
Matrix: Chips									**LIMS Reference ID: AC06654-02**
Lead	<0.017 % wt	0.017 % wt	0.234	01/29/24 LP	SW-846 3050B	01/30/24 pmx	SW846-7000B		1
	Sample Comments:								
Client Sample ID: P-3/White Plaster 1st Floor Ceiling, North Entrance									**Date Sampled: 01/26/24**
Matrix: Chips									**LIMS Reference ID: AC06654-03**
Lead	0.054 % wt	0.021 % wt	0.1931	01/29/24 LP	SW-846 3050B	01/30/24 pmx	SW846-7000B		1
	Sample Comments:								
Client Sample ID: P-4/White Plaster 1st Floor Wall, South Restroom Hall									**Date Sampled: 01/26/24**
Matrix: Chips									**LIMS Reference ID: AC06654-04**
Lead	0.16 % wt	0.016 % wt	0.2501	01/29/24 LP	SW-846 3050B	01/30/24 pmx	SW846-7000B		1
	Sample Comments:								
Client Sample ID: P-5/Blue Drywall 1st Floor Wall, South Restroom Hall									**Date Sampled: 01/26/24**
Matrix: Chips									**LIMS Reference ID: AC06654-05**
Lead	<0.014 % wt	0.014 % wt	0.2837	01/29/24 LP	SW-846 3050B	01/30/24 pmx	SW846-7000B		1
	Sample Comments:								
Client Sample ID: P-6/Grey Drywall 2nd Floor Wall, North Office Area									**Date Sampled: 01/26/24**
Matrix: Chips									**LIMS Reference ID: AC06654-06**
Lead	0.075 % wt	0.046 % wt	0.0861	01/29/24 LP	SW-846 3050B	01/30/24 pmx	SW846-7000B		1
	Sample Comments:								
Client Sample ID: P-7/Aqua Plaster 2nd Floor Wall, North Office Area									**Date Sampled: 01/26/24**
Matrix: Chips									**LIMS Reference ID: AC06654-07**
Lead	0.10 % wt	0.015 % wt	0.2605	01/29/24 LP	SW-846 3050B	01/30/24 pmx	SW846-7000B		1
	Sample Comments:								
Client Sample ID: P-8/Grey Drywall 2nd Floor Wall, South Office Area									**Date Sampled: 01/26/24**
Matrix: Chips									**LIMS Reference ID: AC06654-08**
Lead	<0.015 % wt	0.015 % wt	0.2659	01/29/24 LP	SW-846 3050B	01/30/24 pmx	SW846-7000B		1
	Sample Comments:								

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012406654
LIMS Reference ID: AC06654
EMSL Customer ID: ATC55

Attention: Allison Nichols
Atlas Technical [ATC55]
11117 Mockingbird Drive
Omaha, NE 68137
(402) 697-9747
Allison.Williams@oneatlas.com

Project Name: 204BS06748

Customer PO:
EMSL Sales Rep: Anthony DeRosa
Received: 01/29/2024 09:00
Reported: 01/30/2024 18:16

Certified Analyses included in this Report

Analyte	Certifications
SW846-7000B in Chips	
Lead	AIHA LAP

List of Certifications

Code	Description	Number	Expires
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
NYSDOH	New York State Department of Health	10872	04/01/2024
California ELAP	California Water Boards	1877	06/30/2024
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2023
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024

Please see the specific Field of Testing (FOT) on www.emsl.com <http://www.emsl.com> for a complete listing of parameters for which EMSL is certified.

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012406654
LIMS Reference ID: AC06654
EMSL Customer ID: ATC55

Attention: Allison Nichols
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11117 Mockingbird Drive
Omaha, NE 68137
(402) 697-9747
Allison.Williams@oneatlas.com

Project Name: 204BS06748

Customer PO:
EMSL Sales Rep: Anthony DeRosa
Received: 01/29/2024 09:00
Reported: 01/30/2024 18:16

Notes and Definitions

Item	Definition
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit

For paint chips, the RL is 0.008% by wt. (equiv. to 80 mg/kg, or ppm) based upon a minimum sample weight of 0.25 grams.

For soils, the RL is 40 mg/kg (ppm) based upon a minimum sample weight of 0.5 grams.

For dust wipes, the RL is 10 µg/wipe; reporting units of µg/sq. ft. are not validated by the lab based upon data provided by non-lab personnel.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

Owen McKenna Laboratory Manager or other approved signatory

EMSL maintains liability limited to coast of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. QC sample results are within quality control criteria and met method specifications unless otherwise noted.

Analysis following EMSL SOP for the Determination of Environmental Lead by FLAA. The laboratory has a reporting limit of 0.008% by wt., based upon a minimum sample weight of 0.25g submitted to the lab, and is not responsible for any result or reporting limit provided in mg/cm2 since it is dependent upon an area value provided by non-lab personnel. A "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty and definitions of modifications are available upon request. Results in this report are not blank corrected unless specified.

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead Chain of Custody

EMSL Order Number / Lab Use Only

AC06654

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
EMAIL: c@emsl.com

Customer Information		Billing Information	
Customer ID:		Billing ID:	
Company Name:	Atlas Technical	Company Name:	Atlas Technical
Contact Name:	Allison Nichols	Billing Contact:	Allison Nichols
Street Address:	11117 Mockingbird Drive	Street Address:	11117 Mockingbird Drive
City, State, Zip:	Omaha NE 68137	Country: US	City, State, Zip: Omaha NE 68137 Country: US
Phone:	402-697-9747		Phone: 402-697-9747
Email(s) for Report:	~~Allison.Nichols~~@oneatlas.com & Steve.Hudson		Email(s) for Invoice:

Project Information

Project Name/No:	20485 06748	Purchase Order:	
EMSL LIMS Project ID: (If applicable, EMSL will provide)		US State where samples collected: ~~NE~~ IA	State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)
Sampled By Name:	STEVE HUDSON	Sampled By Signature:	No. of Samples in Shipment: 8

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION
CHIPS ☒ % by wt. ☐ ppm (mg/kg) ☐ mg/cm²	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	☒
*Reporting Limit based on a minimum 0.25g sample weight	SW 846-6010D*	ICP-OES	0.0004% (4ppm)	☐
AIR	NIOSH 7082	Flame Atomic Absorption	4µg/filter	☐
	NIOSH 7300M / NIOSH 7303M	ICP-OES	0.5µg/filter	☐
	NIOSH 7300M / NIOSH 7303M	ICP-MS	0.05µg/filter	☐
WIPE ☐ ASTM ☐ NON-ASTM	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	☐
*If no box is checked, non-ASTM Wipe is assumed	SW 846-6010D*	ICP-OES	1.0µg/wipe	☐
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
Wastewater	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
Unpreserved ☐ / Preserved with HNO3 ☐ PH<2	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
Unpreserved ☐ / Preserved with HNO3 ☐ PH<2	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
Other:				☐

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
	SEE ATTACHED		

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time: 1/26/24 5pm	Received by: FX	Date/Time 1/27/24 1:00
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - COC-25 Lead R16 4/19/2021

*6010C Available Upon Request

☒ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

AC06654

PAINT CHIP SAMPLE LOG SHEET

ATLAS
11117 Mockingbird Drive
Omaha, NE 68137
Phone (402) 697-9747

Project Information

Client:	Project Description:	Project Manager: SRA Inspector:
IOWA DAS	LEAD TESTING	STEVE HUDSON
Date: 1/26/24	Site Location: IOWA SCHOOL FOR DEAF OUTREACH BUILDING	ATLAS PROJECT NUMBER: 204BS06748

Sample #	Paint Color	Substrate	Sample Location	Quantity
P-1	White	concrete	BASEMENT - CEILING THROUGHOUT	
P-2	Yellow	Concrete	BASEMENT - WALLS & COLUMNS	
P-3	white	plaster	1ST FLOOR - CEILING - N. ENTRANCE	
P-4	white	plaster	| - WALL - SOUTH RESTROOM HALL	
P-5	blue	drywall	_| - WALL - |	
P-6	Grey	drywall	2ND FLOOR - WALL - NORTH OFFICE AREA	
P-7	Aqua	plaster	| - WALL |	
P-8	Grey	drywall	_| - WALL SOUTH OFFICE AREA	

APPENDIX C

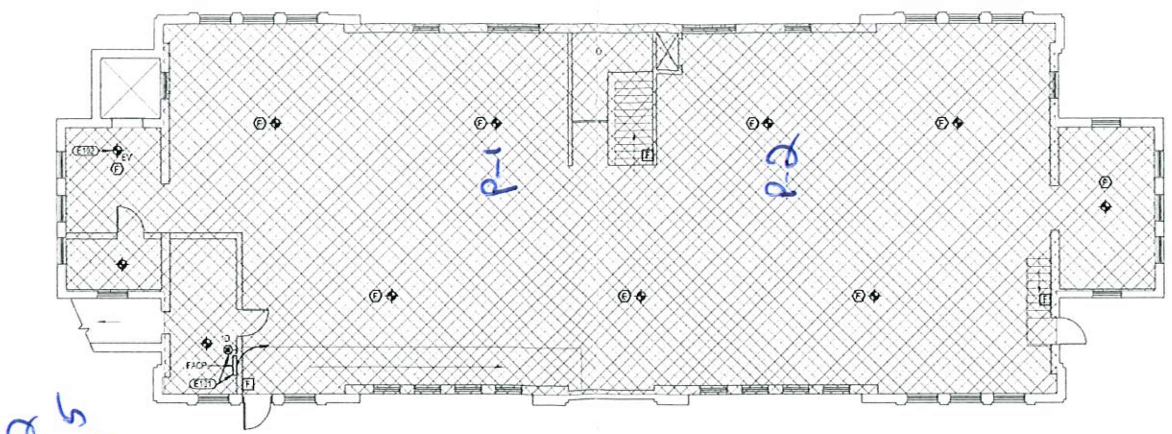
ASBESTOS SAMPLE LOCATIONS

KEYNOTES

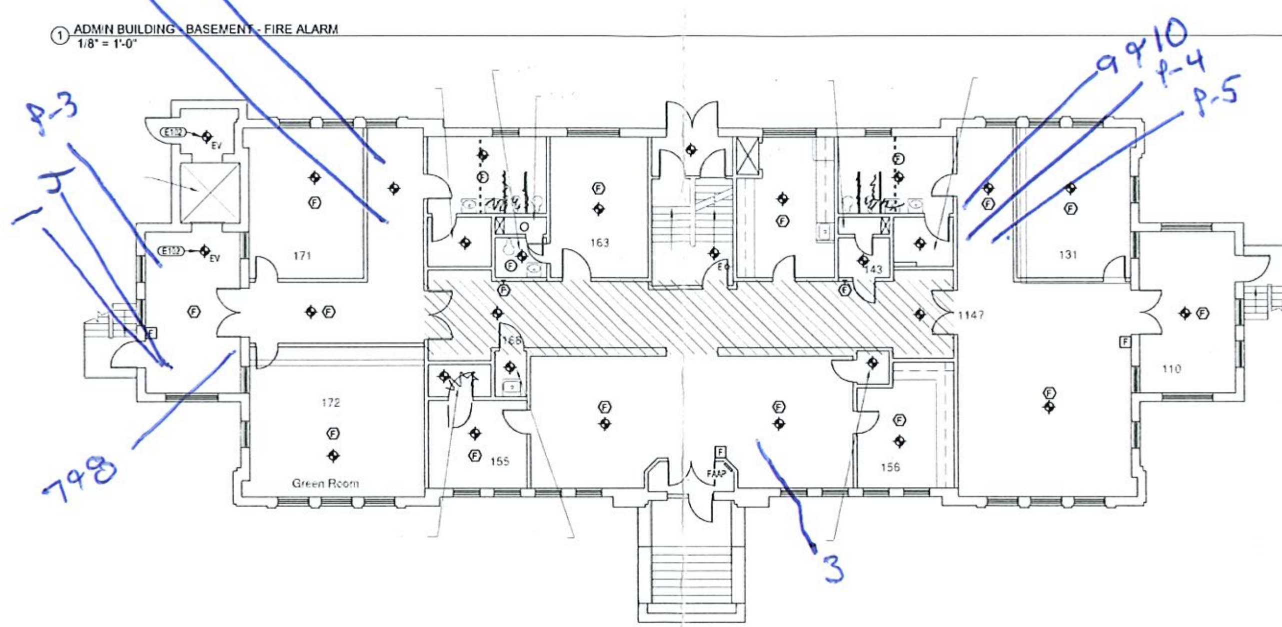
E101 PROVIDE ONE CAT 6 DATA CABLE FROM FIRE ALARM CONTROL PANEL TO IT NETWORK FOR CONNECTION TO IP DIALER. COORDINATE DIALER CONNECTIONS AND NETWORK CONFIGURATIONS WITH OWNER'S IT REPRESENTATIVE.

E102 EV DENOTES CONNECTION TO ELEVATOR RECALL SYSTEM. PROGRAM FIRE ALARM SYSTEM TO INITIATE ELEVATOR RECALL UPON SMOKE DETECTION. DETECTORS AT LANDINGS SHALL CAUSE THE ELEVATOR TO RETURN TO AN ALTERNATE LEVEL. DESIGNATED AND ALTERNATE LEVELS TO BE DETERMINED BY THE ELEVATOR INSPECTOR AND FIRE MARSHAL.

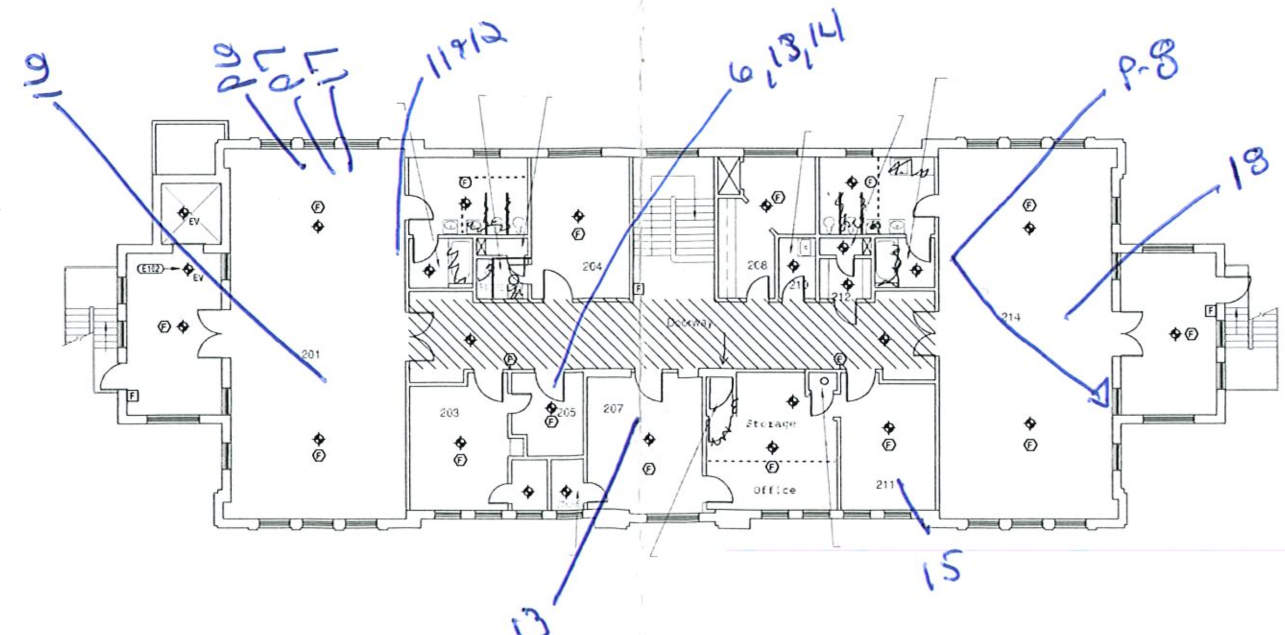
Z←



1 ADMIN BUILDING - BASEMENT - FIRE ALARM
1/8" = 1'-0"



2 ADMIN BUILDING - FIRST FLOOR - FIRE ALARM
1/8" = 1'-0"



3 ADMIN BUILDING - SECOND FLOOR - FIRE ALARM
1/8" = 1'-0"

SAMPLE LOCATION SKETCH
1/26/2024

morrissey engineering inc.

MARK | REVISION | DATE

ADMIN BUILDING - FIRE ALARM PLANS

IOWA SCHOOL FOR THE DEAF
FIRE ALARM REPLACEMENT

Progress Print
NOT TO BE USED FOR CONSTRUCTION
10/27/2023
date
morrissey engineering, inc.

agency approval

date	10/27/2023
project number	23266
designed by	JRH
drawn by	DGM
sheet number	E101

APPENDIX D

STAFF ACCREDITATIONS

JAZHAN AMILL

DOB: 03-31-1978

Issued: 06-05-2023

This person is licensed to perform asbestos work in the State of Iowa. ID card is intended for official use only and must be present on jobsite.

License Type	Number	Expires
INSPECTOR	23-10351	05-04-2024
MANAGEMENT PLANNER	23-10352	05-04-2024

DIVISION OF IOWA LABOR

Asbestos

Larry Johnson, Jr.
Labor Commissioner

HAZARDOUS BUILDING MATERIALS SURVEY REPORT

PREPARED FOR:

Samuels Group
2929 Westown Parkway, Suite 200
West Des Moines, Iowa 50309

PROJECT LOCATION:

Elementary School Building – Fire Alarm Replacement Project
Iowa School for the Deaf
Council Bluffs, Iowa

Project Date: February 2, 2024

Report Date: February 20, 2024

Atlas Project ID: 204BS06743

PREPARED BY:

Atlas Technical Consultants
4503 E 50th Street, Suite 800
Des Moines, IA 50317

February 20, 2024

Samuels Group
Mr. Jerry Dehnke
2929 Westown Parkway, Suite 200
West Des Moines, Iowa 50309

Re: Hazardous Building Materials Survey Report
Elementary School Building – Fire Alarm Replacement Project
Iowa School for the Deaf
Council Bluffs, Iowa
Atlas Project Number: 204BS06743

Atlas is pleased to submit the attached Hazardous Building Materials Survey Report for the above-referenced site. This report includes procedures, methodologies and analytical laboratory results.

Atlas appreciates the opportunity to perform these services for the IDAS and the Samuels Group, and we look forward to working with you in the future. If you need any assistance with the implementation of the recommendations contained in this report, please feel free to give us a call at (402) 670-3842 and we will respond promptly to your needs.

Sincerely,

ATLAS TECHNICAL CONSULTANTS, LLC

Prepared By:

Trevor Parks, CSMI
Environmental Scientist
(402)-697-9747

Reviewed By:

Steve Hudson, MS, CIH, CIEC
Sr. Project Manager
(402) 670-3842

T A B L E O F C O N T E N T S

ATLAS

HAZARDOUS BUILDING MATERIALS SURVEY REPORT

Elementary School Building
Iowa School for the Deaf
Council Bluffs, Iowa 51503
Atlas Project Number: 204BS06743

1.0 SCOPE OF SERVICES

The purpose of this project was to perform a survey for hazardous building materials that may be impacted by planned fire alarm replacement activities at the above-referenced property.

Atlas provided a representative hazardous materials survey in accordance with the referenced agreement and as outlined below:

1. Review any existing hazardous building material survey reports relating to the site, if available.
2. Identify suspect asbestos-containing materials (ACM), surface coatings potentially containing lead paint, and hazardous building materials within the planned fire alarm replacement work areas.
3. Collect and analyze bulk samples of suspect asbestos containing materials and collect paint chip samples from representative surface coatings potentially containing lead-based or lead-containing paint.
4. Provide laboratory analysis of collected samples.
5. Provide a report of findings with copies and interpretation of analytical results and identifying the locations of asbestos-containing materials, lead paint, and hazardous building materials.

2.0 GENERAL SITE CONDITIONS

The survey was conducted at the Elementary School Building located at the Iowa School for the Deaf in Council Bluffs, Iowa. The survey area was limited to the areas to be disturbed as part of planned fire alarm replacement activities.

3.0 ASBESTOS SURVEY

On February 2, 2024, the basement, first, and second floors of the Elementary School Building were inspected for asbestos-containing building materials by inspector Chase Bucknell of Atlas. Mr. Bucknell has completed the requisite training for asbestos accreditation as inspectors at a state approved training provider under TSCA Title II. Mr. Bucknell's State of Iowa Inspector number is 23-9762.

The planned renovation work areas were visually inspected for the presence of suspect asbestos-containing materials (ACM). Materials that were hidden, not accessible, or when sampled would damage the integrity of the structure, were not sampled as part of this survey. Materials visibly identified as non-asbestos (fibrous glass, foam rubber, wood, etc.) were not sampled. The asbestos survey consisted of three basic steps: **1)** a visual inspection of the proposed work areas; **2)** a determination of homogeneous areas with suspect surfacing, thermal system insulation, and miscellaneous materials; and **3)** sampling accessible, friable and non-friable, suspect materials.

3.1 Regulation Review

The U.S. EPA qualifies asbestos-containing materials (ACM) as materials with an asbestos content greater than 1%. The following definitions are taken from Section 61.141 of Subpart M, Part 61 of Title 40: Protection of Environment of the Code of Federal Regulations (CFR).

- "Category I non-friable asbestos-containing material (ACM)" is defined as asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1% asbestos as determined using the method specified in appendix E, subpart E, 40 CFR part 763, section 1, Polarized Light Microscopy (PLM).

- "Category II non-friable ACM" is defined as any material, excluding Category I non-friable ACM, containing more than 1% asbestos as determined using the methods specified in appendix E, subpart E, 40 CFR part 763, section 1, PLM that, when dry, ***cannot*** be crumbled, pulverized, or reduced to powder by hand pressure.

- "Friable asbestos material" is defined as any material containing more than 1% asbestos as determined using the methods specified in appendix E, subpart E, 40 CFR part 763, section 1, PLM that when dry, ***can*** be crumbled, pulverized, or reduced to powder by hand pressure. If the asbestos content is less than 10% as determined by a method other than point counting by PLM, verify the asbestos content by point counting using PLM.

3.2 Homogeneous Areas

Prior to sampling, homogeneous areas were identified in order to facilitate a sampling strategy. A homogeneous sampling area can be described as one or more areas with suspect material similar in appearance and texture that have the same installation date and function. The actual number of samples collected from each

homogeneous sampling area may vary, dependent upon material type and the professional judgment of the inspector.

3.3 Sampling Strategy

The sampling strategy incorporated AHERA requirements, quantities of suspect material, and the inspector's judgment to aid in the identification of suspect asbestos-containing materials. If the analytical results indicated that all the samples collected per homogeneous area did not contain asbestos, then the homogeneous area (material) was considered non-asbestos-containing. However, if the analytical results of one or more of the samples collected per homogeneous area indicated that asbestos was present in quantities greater than one percent asbestos (as defined by EPA), all of the homogeneous area (material) was treated as an asbestos-containing material regardless of any other analytical results. Materials which were visually determined to be non-asbestos (i.e. fibrous glass, foam rubber, etc.) by the accredited inspector were not required to be sampled. Actual collection of a bulk asbestos sample involves physically removing approximately one square inch (1 in^2) of material and placing it in an airtight sample container. Sample containers were marked with a unique identification number, which was documented in the field notes.

3.4 Suspect Asbestos-Containing Materials

The following table contains a list of the twenty (20) identified suspect asbestos containing materials sampled:

TABLE 1: SUSPECT ASBESTOS MATERIALS

MATERIAL	LOCATION	SAMPLE NUMBER
Hockey Puck Brown Glue	Hallway Outside Room 121	1
Pinhole Fissure 2' x 4' Ceiling Tiles	Hallway Outside Room 121	2
Pinhole Fissure 2' x 4' Ceiling Tiles	Hallway Outside Room 103	3
Pinhole Fissure 2' x 4' Ceiling Tiles	Hallway Outside Room 203	4
12" x 12" Ceiling Tiles	Hallway Outside Room 121	5
12" x 12" Ceiling Tiles	Hallway Outside Room 103	6
12" x 12" Ceiling Tiles	Hallway Outside Room 202	7
Plaster	Hallway Outside Room 121	8
Plaster	Hallway Outside Room 103	9
Plaster	Bathroom By Room 114	10
Pinhole 2' x 4' Ceiling Tiles	Hallway Outside Room 103	11
Pinhole 2' x 4' Ceiling Tiles	Hallway Outside Room 203	12

TABLE 1: SUSPECT ASBESTOS MATERIALS		
MATERIAL	**LOCATION**	**SAMPLE NUMBER**
Pinhole 2' x 4' Ceiling Tiles	Hallway Outside Room 213	13
Ceiling Texture (white)	Stairway/Exit by Room 103	14
Ceiling Texture (white)	Staircase by Room 202	15
Ceiling Texture (white)	Staircase by Room 217	16
Drywall and Joint Compound	Room 203	17
Drywall and Joint Compound	Room 213	18
Drywall and Joint Compound	Room 114	19
Grout Concrete	Basement Stair Case	20

The following table is a summary of the suspect asbestos-containing materials that have been determined, through laboratory analysis, to contain asbestos:

TABLE 2: ASBESTOS-CONTAINING MATERIALS				
MATERIAL	**LOCATION**	**SAMPLE NUMBER**	**APPROX. QUANTITY**	**ASBESTOS CONTENT**
Brown Adhesive Pucks Under 12x12 Ceiling Tiles	1st Floor - Outside Room 121	1	1st Floor	3% Chrysotile
Joint Compound	2nd Floor - Room 213	18	2nd Floor	3% Chrysotile
Joint Compound	1st Floor - Room 114	19	1st Floor	3% Chrysotile
SF = Square Feet, LF = Linear Feet MF = Mechanical Fittings				

3.5 Laboratory Analytical Results

Bulk samples were analyzed by EMSL Analytical, Inc. located at 200 Route 130 North, Cinnaminson, NJ. Polarized Light Microscope analysis, utilizing dispersion staining techniques (ref.: EPA Method 600/M4-82-020), was performed to determine the asbestos content of the bulk samples collected at the site. This laboratory is currently a proficient participant in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Analytical Testing Program; a quality assurance program for polarized light microscopy analysis. Any material that contains greater than one percent asbestos is considered an ACM and must be handled according to Occupational Safety and Health Administration (OSHA), EPA,

and all applicable state and local regulations.

Laboratory test results are provided in Appendix A.

4.0 LEAD PAINT SURVEY

On February 2, 2024, the Elementary School Building was inspected for lead paint by Tim Jacobsen of Atlas. The purpose of the survey was to identify locations and concentrations of lead in paints and coatings on interior building components that may be disturbed as part of planned fire alarm replacement activities.

4.1 Inspection

The lead survey was performed in general accordance with the U.S. Housing and Urban Development Chapter 7 of the *Guidelines for the evaluation and Control of Lead-Based Paint Hazards in Housing* (1997 Revision). Survey criteria included the inspection and sampling of the representative painted surfaces on the interior of the building.

Regulatory limits from the Housing and Urban Development (HUD) and the Environmental Protection Agency (EPA) establishes that lead-based paint (LBP) by definition is paint that contains more than 0.5% of lead in paint. OSHA's "Lead in Construction Standard" (29 CFR 1926.1101) addresses any concentration of lead in paint ("lead-containing paint").

Prior to demolition or renovation activities, all contractors involved should be notified regarding the presence of painted components under the guidelines of the OSHA Lead in Construction standard 29 CFR 1926.62. Care should be exercised in acknowledging that the OSHA 29 CFR 1926.62 has no LBP threshold definition and is concerned with exposures generated by LBP disturbances, which may include materials containing less than 0.5% lead by weight. The OSHA regulations are based strictly on airborne lead concentrations; therefore, the measured lead concentration of the paint and the method of paint disturbance will both factor into the potential airborne hazard.

OSHA requires the contractor to inform its employees of potential lead hazards, based upon the work being performed. The purpose of OSHA's Lead Construction Standard is to reduce the exposure to lead for all construction workers. It is for this reason that Atlas recommends contractors be informed of the presence of lead. OSHA's standard includes an 8-hour time weighted average (TWA) of 50 micrograms of lead per cubic meter of air (mg/m^3) and an action level (regardless of respirator use) of 30 mg/m^3.

Prior to disposal of debris that contains materials that have been found to contain lead, conduct a Toxicity Characteristic Leaching Procedures (TCLP) on representative solid wastes. This will determine if the debris requires a hazardous

waste disposal site. A TCLP was not collected as part of this current inspection.

4.2 Lead Paint Testing

A total of seven (7) surface coatings were tested to determine the concentration of lead. The sampling generally involved the collection of the paint on the surface down to the substrate over an area of approximately 2 to 3 square inches. A summary of the tested paints is provided in the table below. In order for a surface coating to be considered a lead-based paint, the paint must contain lead in concentrations greater than 0.5% by weight. A detectable concentration of lead in the surface coating below 0.5% by weight is considered a lead-containing paint. The full copy of the lead analytical results is included in Appendix B.

- Lead-based paint was not identified in any of the surface coatings tested.

This evaluation report can help the Owner develop a plan for renovating the building by having concentrations of lead in the paint identified. It is our understanding that the information in this report will be provided to the contractors so that appropriate precautions can be made to minimize worker exposure to lead. If surface coatings with lead containing paint are handled improperly, exposure could occur to workers and future occupants of the facility.

5.0 HAZARDOUS MATERIALS ASSESSMENT

Atlas completed a visual inspection of rooms / areas throughout the intended work areas to identify hazardous wastes or universal wastes that may be impacted by planned renovation activities. The survey included a visual inspection of: light fixtures and other equipment for the presence of Polychlorinated Biphenyls (PCBs); light bulbs, thermostats, switches, and other equipment for the presence of mercury; refrigerants, batteries, and devices with potential radioactive materials.

TABLE 3: HAZARDOUS BUILDING MATERIALS

Category	Material	Estimated Quantity
Poly-Chlorinated Biphenyl (PCBs)	Transformers	N/A
	Transistors	N/A
	Light Ballasts	N/A
Mercury	Thermostats	N/A
	Switches/Relays	N/A
	Fluorescent Light Tubes	N/A
	High Intensity Discharge lights	N/A
	Thermometers/ Manometers	N/A

TABLE 3: HAZARDOUS BUILDING MATERIALS		
Category	**Material**	**Estimated Quantity**
Batteries	Smoke Detectors	76
	Emergency Lighting Systems	1
	Exit Signs	9
	Flashing Fire Alarms	37
Chlorofluorocarbons (CFCs) or Hydro Chlorofluorocarbons (HCFCs)	Refrigerators/Freezers/Chillers	N/A
Low Level Radioactive Sources (LLR)	Smoke/Fire Alarms	76

Hazardous materials or universal wastes identified in Table 3 shall be removed as part of the renovation contractor's scope of work and disposed of according to US EPA Toxic Substances Control Act (TSCA) and the State of Iowa regulations.

6.0 CONCLUSIONS

The following conclusions are summarized as follows:

- Asbestos was identified in the adhesive pucks behind the 12x12 ceiling tiles on the 1st floor, and joint compound on the 2nd floor and 1st floor.
- Lead-based paint was not identified in the suspect surface coatings tested.

7.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions, and recommendations expressed in this report are based solely on conditions noted during the February 2, 2024, Atlas hazardous building materials survey of the Elementary School Building located at the Iowa School for the Deaf in Council Bluffs, Iowa. The survey was limited to surfaces to be impacted by planned fire alarm replacement activities.

Atlas did not perform destructive sampling -- it was not within Atlas's scope of work to remove surface materials to investigate portions of the structure or materials that may lay beneath the surface -- thus, any materials that could not be visually identified on the surface were not inspected and would not be noted in this report. Atlas's selection of sample locations and frequency of sampling was based on the

inspector's assumption that like materials in the same area are homogeneous in content.

The report is designed to aid the building owner, architect, construction manager, general contractor, and potential abatement contractor in locating hazardous building materials. Under no circumstances is the report to be utilized as a bidding document or as a project specification document since it does not have all the components required to serve as a Project Design document or an Abatement Work plan.

Our professional services have been performed, our findings obtained, and our conclusions and recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This statement is in lieu of other statements either expressed or implied. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

This report is intended for the sole use of the IDAS and Samuels Group. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

APPENDIX A

ASBESTOS TEST RESULTS

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order:	042402299
Customer ID:	ATC55
Customer PO:	
Project ID:	

Attention:	Steve Hudson	**Phone:**	(402) 697-9747
	Atlas Technical	**Fax:**	(402) 597-8532
	11117 Mockingbird Drive	**Received Date:**	02/03/2024 11:00 AM
	Omaha, NE 68137	**Analysis Date:**	02/05/2024 - 02/07/2024
		Collected Date:	02/02/2024

Project: 204BS06743 / Limited Asb. Survey - School of Deaf - State of Iowa

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1 *042402299-0001*	1st Floor Hallway Outside Room 121 - Hockey Puck Brown Glue - Above Ceiling Tiles	Brown Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
2 *042402299-0002*	1st Floor Hallway Outside Room 121 - 2x4 Pinhole Fissure Ceiling Tiles	Tan/White Fibrous Homogeneous	50% Cellulose 20% Min. Wool	30% Non-fibrous (Other)	None Detected
3 *042402299-0003*	1st Floor Hallway Outside Room 103 - 2x4 Pinhole Fissure Ceiling Tiles	Tan/White Fibrous Homogeneous	50% Cellulose 25% Min. Wool	25% Non-fibrous (Other)	None Detected
4 *042402299-0004*	2nd Floor Hallway Outside Room 203 - 2x4 Pinhole Fissure Ceiling Tiles	Tan/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
5 *042402299-0005*	1st Floor Hallway Outside Room 121 - 12x12 Ceiling Tiles - Above Drop Ceiling Tiles	Brown/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
6 *042402299-0006*	1st Floor Hallway Outside Room 103 - 12x12 Ceiling Tiles - Above Drop Ceiling Tiles	Brown/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
7 *042402299-0007*	2nd Floor Hallway Outside Room 202 - 12x12 Ceiling Tiles - Above Drop Ceiling Tiles	Brown/White Fibrous Homogeneous	92% Cellulose	8% Non-fibrous (Other)	None Detected
8 *042402299-0008*	1st Floor Hallway Outside Room 121 - Plaster	White Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
9 *042402299-0009*	1st Floor Hallway Outside Room 103 - Plaster	White Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
10-Plaster *042402299-0010*	1st Floor Bathroom by Room 114 - Plaster	Gray/White Non-Fibrous Homogeneous		5% Perlite 95% Non-fibrous (Other)	None Detected
10-Skim Coat *042402299-0010A*	1st Floor Bathroom by Room 114 - Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11 *042402299-0011*	1st Floor Hallway Outside Room 103 - 2x4 Pinhole Ceiling Tiles	Tan/White Fibrous Homogeneous	50% Cellulose 20% Min. Wool	30% Non-fibrous (Other)	None Detected

Initial report from: 02/07/2024 11:51:16

EMSL Analytical, Inc.
200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order:	042402299
Customer ID:	ATC55
Customer PO:	
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
12 *042402299-0012*	2nd Floor Hallway Outside Room 203 - 2x4 Pinhole Ceiling Tiles	Gray/Tan/White Fibrous Homogeneous	55% Cellulose 20% Min. Wool	25% Non-fibrous (Other)	None Detected
13 *042402299-0013*	2nd Floor Hallway Outside Room 213 - 2x4 Pinhole Ceiling Tiles	Gray/Tan/White Fibrous Homogeneous	55% Cellulose 25% Min. Wool	20% Non-fibrous (Other)	None Detected
14 *042402299-0014*	1st Floor Stairway / Exit by Room 103 - White Ceiling Texture	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15 *042402299-0015*	2nd Floor Staircase by Room 202 - White Ceiling Texture	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16 *042402299-0016*	2nd Floor Staircase by Room 217 - White Ceiling Texture	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17-Drywall *042402299-0017*	2nd Floor Room 203 - Drywall	Brown/White Fibrous Homogeneous	12% Cellulose	88% Non-fibrous (Other)	None Detected
17-Joint Compound *042402299-0017A*	2nd Floor Room 203 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18-Drywall *042402299-0018*	2nd Floor Room 213 - Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
18-Joint Compound *042402299-0018A*	2nd Floor Room 213 - Joint Compound	Tan Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
18--Joint Compound 2 *042402299-0018B*	2nd Floor Room 213 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
19-Drywall *042402299-0019*	1st Floor Room 114 - Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
19-Joint Compound *042402299-0019A*	1st Floor Room 114 - Joint Compound	Tan Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
19-Joint Compound 2 *042402299-0019B*	1st Floor Room 114 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
20 *042402299-0020*	Basement Staircase - Concrete Grout	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 02/07/2024 11:51:16

EMSL Analytical, Inc.
200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order:	042402299
Customer ID:	ATC55
Customer PO:	
Project ID:	

Analyst(s)

Timothy Trost (15)
Michelle Quach (11)

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 “Interim Method”) but augmented with procedures outlined in the 1993 (”final”) version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA LAP, LLC-IHLAP Lab 100194, PA ID# 68-00367, LA #04127

Initial report from: 02/07/2024 11:51:16

OrderID: 042402299

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Materials - Chain of Custody

EMSL Order Number / Lab Use Only: 042402299

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
EMAIL: c@emsl.com

Customer Information		Billing Information	
Customer ID:		Billing ID:	
Company Name:	Atlas Technical (ATC 55)	Company Name:	Atlas Technical
Contact Name:	Steve Hudson	Billing Contact:	Steve Hudson
Street Address:	11117 Mockingbird Drive	Street Address:	11117 Mockingbird Drive
City, State, Zip:	Omaha NE 68137	City, State, Zip:	Omaha NE
Country:	US	Country:	US
Phone:	402-697-9747	Phone:	402-697-9747
Email(s) for Report:	steve.hudson@oneatlas.com & chase.bucknell@oneatlas.com	Email(s) for Invoice:	steve.hudson@oneatlas.com

Project Information

Project Name/No: 204BS06743 - State of Iowa - School deaf

Purchase Order:

EMSL LIMS Project ID: (If applicable, EMSL will provide)

US State where samples collected: NE

State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)

Sampled By Name: Chase Bucknell

Sampled By Signature: Chase Bucknell

Date Sampled: 2/2/23

No. of Samples in Shipment: 20

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

Test Selection

PLM - Bulk (reporting limit)

- ☑ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)
- ☐ POINT COUNT
  - ☐ 400 (<0.25%) ☐ 1,000 (<0.1%)
- ☐ POINT COUNT w/ GRAVIMETRIC
  - ☐ 400 (<0.25%) ☐ 1,000 (<0.1%)
- ☐ NIOSH 9002 (<1%)
- ☐ NYS 198.1 (Friable - NY)
- ☐ NYS 198.6 NOB (Non-Friable - NY)
- ☐ NYS 198.8 (Vermiculite SM-V)

TEM - Bulk

- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (Non-Friable - NY)
- ☐ TEM EPA 600/R-93/116 w Milling Prep (0.1%)

Other Tests (please specify)

- ☐ Report DRYWALL / JOINT COMPOUND composite results as COMPOSITE RESULT ONLY
- ☐ Positive Stop - Clearly Identified Homogeneous Areas (HA)

Sample Number	HA Number	Sample Location	Material Description
		SEE ATTACHED	

RECEIVED EMSL CINNAMINSON, NJ 2024 FEB -3 A 11:03

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Method of Shipment: FedEx		Sample Condition Upon Receipt:	
Relinquished by: Chase Bucknell	Date/Time: 17:00 2/2/23	Received by:	Date/Time
Relinquished by:	Date/Time:	Received by: DNB-FX	Date/Time: 2-3-24 11A

Controlled Document - Asbestos Bulk R7 9/14/2021

☑ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

OrderID: 042402299

ASBESTOS BULK SAMPLE FORM 042402299

Page ___ of _

ATLAS
11117 Mockingbird Drive
Omaha, NE 68137
Phone (402) 697-9747
Fax (402) 597-8532

Project Information

Client:	Project Description: Limited Asb. Survey	Project Manager: Inspector: Chase B
Date: 2/2/24	Site Location: school of deaf	ATLAS PROJECT NUMBER: 204BS0 6743

Sample #	Material Description	~~Floor~~	Sample Location	~~Quantity~~ floor
1	Hockey puck brown glue above ceiling tiles	1st floor	Hallway outside room 121	1st floor
2	Pinhole -fissure- 2x4 ceiling tiles			
3			Hallway outside room 103	1st floor
4		1st floor	Hallway outside room 203	2nd floor
5	12x12 ceiling tiles above drop ceiling tiles	Bsmnt	Hallway outside room 121	1st floor
6			Hallway outside room 103	
7			Hallway outside room 202	2nd floor
8	Plaster	Bsmnt	Hallway outside room 121	1st floor
9			Hallway outside room ~~203~~ 103	
10		Bsmnt	Bathroom by room 114	
11	2x4 pinhole ceiling tiles	Bsmnt	Hallway outside room 103	
12		1st floor	Hallway outside room 203	2nd floor
13			Hallway outside room 213	

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11

OrderID: 042402299

ASBESTOS BULK SAMPLE FORM

042402299

Page ___ of _

ATLAS
11117 Mockingbird Drive
Omaha, NE 68137
Phone (402) 697-9747
Fax (402) 597-8532

Project Information

Client:	Project Description:	Project Manager: Inspector:
Date:	Site Location:	ATLAS PROJECT NUMBER: 204BS0

Sample #	Material Description	Floor	Sample Location	~~Quantity~~ floor
14	white ceiling texture	Bsmt	Stairway/exit by room 103	1st floor
15	↓	1st floor	Staircase by room 202	2nd floor
16	↓	↓	Staircase by room 217	↓
17	Drywall + joint compound	1st floor	Room 203	↓
18	↓	↓	Room 213	↓
19	↓	Bsmt	Room 114	1st floor
20	~~Bsmt~~ Grout Concrete	Bsmnt	Bsmnt staircase	Bsmnt

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2024 FEB -3 A 11:03

APPENDIX B

LEAD PAINT TEST RESULTS

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
DRAFT REPORT

EMSL Order ID: 012407129
LIMS Reference ID: AC07129
EMSL Customer ID: ATC55

Attention: Tim Jacobsen
Atlas Technical [ATC55]
11117 Mockingbird Drive
Omaha, NE 68137
(402) 697-9747
tim.jacobsen@oneatlas.com

Project Name: 204BS06743 Elementary Building

Customer PO:
EMSL Sales Rep: DRAFT REPORT
Received: 02/05/2024 09:00
Reported: 02/08/2024 10:55

Analytical Results

Analyte	Results	RL	Weight(g)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: 1/Light Blue/Beige Paint-Concrete Block Wall-Library									**Date Sampled: 02/02/24**
Matrix: Chips									**LIMS Reference ID: AC07129-01RE1**
Lead	<0.009 % wt	0.009 % wt	0.2197	02/07/24 SDC	SW-846 3050B	02/07/24 MAC	SW846-7000B		1
	Sample Comments:								
Client Sample ID: 2/Light Blue Paint-Concrete Block Wall-Room 113									**Date Sampled: 02/02/24**
Matrix: Chips									**LIMS Reference ID: AC07129-02**
Lead	<0.008 % wt	0.008 % wt	0.2598	02/06/24 LP	SW-846 3050B	02/07/24 MC1	SW846-7000B	Pb4	1
	Sample Comments:								
Client Sample ID: 3/Blue/Yellow Paint-Concrete Block Wall-Room 108									**Date Sampled: 02/02/24**
Matrix: Chips									**LIMS Reference ID: AC07129-03RE1**
Lead	<0.009 % wt	0.009 % wt	0.2203	02/07/24 SDC	SW-846 3050B	02/07/24 MAC	SW846-7000B		1
	Sample Comments:								
Client Sample ID: 4/White Ceiling Paint-1st Floor Center Stairwell									**Date Sampled: 02/02/24**
Matrix: Chips									**LIMS Reference ID: AC07129-04**
Lead	<0.012 % wt	0.012 % wt	0.1608	02/06/24 LP	SW-846 3050B	02/07/24 MC1	SW846-7000B	Pb4	1
	Sample Comments:								
Client Sample ID: 5/Cream-Plaster Ceiling-1st Floor Room 114 Restroom									**Date Sampled: 02/02/24**
Matrix: Chips									**LIMS Reference ID: AC07129-05**
Lead	<0.010 % wt	0.010 % wt	0.1976	02/06/24 LP	SW-846 3050B	02/07/24 MC1	SW846-7000B	Pb4	1
	Sample Comments:								
Client Sample ID: 6/Cream/Yellow-Concrete Wall-2nd Floor Janitor's Closet									**Date Sampled: 02/02/24**
Matrix: Chips									**LIMS Reference ID: AC07129-06**
Lead	<0.008 % wt	0.008 % wt	0.2418	02/06/24 LP	SW-846 3050B	02/07/24 MC1	SW846-7000B	Pb4	1
	Sample Comments:								
Client Sample ID: 7/Cream Paint-Plaster Ceiling-2nd Floor Janitor's Closet									**Date Sampled: 02/02/24**
Matrix: Chips									**LIMS Reference ID: AC07129-07RE1**
Lead	<0.021 % wt	0.021 % wt	0.0974	02/07/24 SDC	SW-846 3050B	02/07/24 MAC	SW846-7000B		1
	Sample Comments:								

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
DRAFT REPORT

EMSL Order ID: 012407129
LIMS Reference ID: AC07129
EMSL Customer ID: ATC55

Attention: Tim Jacobsen
Atlas Technical [ATC55]
11117 Mockingbird Drive
Omaha, NE 68137
(402) 697-9747
tim.jacobsen@oneatlas.com

Project Name: 204BS06743 Elementary Building

Customer PO:
EMSL Sales Rep: DRAFT REPORT
Received: 02/05/2024 09:00
Reported: 02/08/2024 10:55

Certified Analyses included in this Report

Analyte	Certifications
SW846-7000B in Chips	
Lead	AIHA LAP

List of Certifications

Code	Description	Number	Expires
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
NYSDOH	New York State Department of Health	10872	04/01/2024
California ELAP	California Water Boards	1877	06/30/2024
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2023
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024

Please see the specific Field of Testing (FOT) on www.emsl.com <http://www.emsl.com> for a complete listing of parameters for which EMSL is certified.

DRAFT

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
DRAFT REPORT

EMSL Order ID: 012407129
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Attention: Tim Jacobsen
Atlas Technical [ATC55]
11117 Mockingbird Drive
Omaha, NE 68137
(402) 697-9747
tim.jacobsen@oneatlas.com

Project Name: 204BS06743 Elementary Building

Customer PO:
EMSL Sales Rep: DRAFT REPORT
Received: 02/05/2024 09:00
Reported: 02/08/2024 10:55

Notes and Definitions

Item	Definition
C	>4x RL
D	Analyte was reported from a dilution run.
Pb4	The QC sample duplicate RPD and MS recovery result for Lead was outside of the method control limits.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit

For paint chips, the RL is 0.008% by wt. (equiv. to 80 mg/kg, or ppm) based upon a minimum sample weight of 0.25 grams.

For soils, the RL is 40 mg/kg (ppm) based upon a minimum sample weight of 0.5 grams.

For dust wipes, the RL is 10 µg/wipe; reporting units of µg/sq. ft. are not validated by the lab based upon data provided by non-lab personnel.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

Owen McKenna Laboratory Manager or other approved signatory

EMSL maintains liability limited to coast of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. QC sample results are within quality control criteria and met method specifications unless otherwise noted.

Analysis following EMSL SOP for the Determination of Environmental Lead by FLAA. The laboratory has a reporting limit of 0.008% by wt., based upon a minimum sample weight of 0.25g submitted to the lab, and is not responsible for any result or reporting limit provided in mg/cm2 since it is dependent upon an area value provided by non-lab personnel. A "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty and definitions of modifications are available upon request. Results in this report are not blank corrected unless specified.

EMSL ANALYTICAL, INC.
LABORATORY · PRODUCTS · TRAINING

Lead Chain of Custody

EMSL Order Number / Lab Use Only

AC07129

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
EMAIL: c@emsl.com

Customer Information		Billing Information	
Customer ID:	ATC55	Billing ID:	
Company Name:	Atlas Technical Consultants LLC	Company Name:	Atlas Technical Consultants LLC
Contact Name:	Tim Jacobsen	Billing Contact:	Tim Jacobsen
Street Address:	11117 Mockingbird Dr	Street Address:	11117 Mockingbird Drive
City, State, Zip:	Omaha NE 68137	Country: US	Omaha NE 68137 Country: US
Phone:	4023208396	Phone:	4023208396
Email(s) for Report:	tim.jacobsen@oneatlas.com	Email(s) for Invoice:	

Project Information

Project Name/No: 204B506743 Elementary Building

Purchase Order:

EMSL LIMS Project ID: (If applicable, EMSL will provide)

US State where samples collected: IA

State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)

Sampled By Name: Tim Jacobsen

Sampled By Signature:

No. of Samples in Shipment

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION
CHIPS ☒ % by wt. ☐ ppm (mg/kg) ☐ mg/cm²	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	☒
*Reporting Limit based on a minimum 0.25g sample weight	SW 846-6010D*	ICP-OES	0.0004% (4ppm)	☐
AIR	NIOSH 7082	Flame Atomic Absorption	4µg/filter	☐
	NIOSH 7300M / NIOSH 7303M	ICP-OES	0.5µg/filter	☐
	NIOSH 7300M / NIOSH 7303M	ICP-MS	0.05µg/filter	☐
WIPE ☑ ASTM ☐ NON-ASTM	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	☐
*If no box is checked, non-ASTM Wipe is assumed	SW 846-6010D*	ICP-OES	1.0µg/wipe	☐
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
Wastewater	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
Unpreserved ☐ / Preserved with HNO3 ☐ PH<2	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
Unpreserved ☐ / Preserved with HNO3 ☐ PH<2	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
Other:				☐

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
1	Light blue/Beige Paint - concrete block wall	Library	
2	Light blue paint - concrete block wall	Room 113	
3	Blue/Yellow paint - concrete block wall	Room 108	
4 White	Ceiling Paint -	1st Floor center stairwell	
5	Cream - Plaster ceiling - 1st Fl Room	114 Restroom	

Method of Shipment: FEDEX

Sample Condition Upon Receipt:

Relinquished by:	Date/Time: 2/2/2024 4PM	Received by: CL EFX	Date/Time 2/5/24 9am
Relinquished by:	Date/Time:	Received by:	Date/Time

*6010C Available Upon Request

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

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Lead Chain of Custody

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PHONE: 1-800-220-3675
EMAIL: c@emsl.com

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
6	Cream/Yellow - concrete wall - 2nd floor Janitor's Closet		
7	Cream paint - plaster ceiling 2nd Floor Janitor's closet		

Method of Shipment: Fedex		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time: 2/5/2024 4pm	Received by:	Date/Time
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - COC-25 Lead R16 4/19/2021

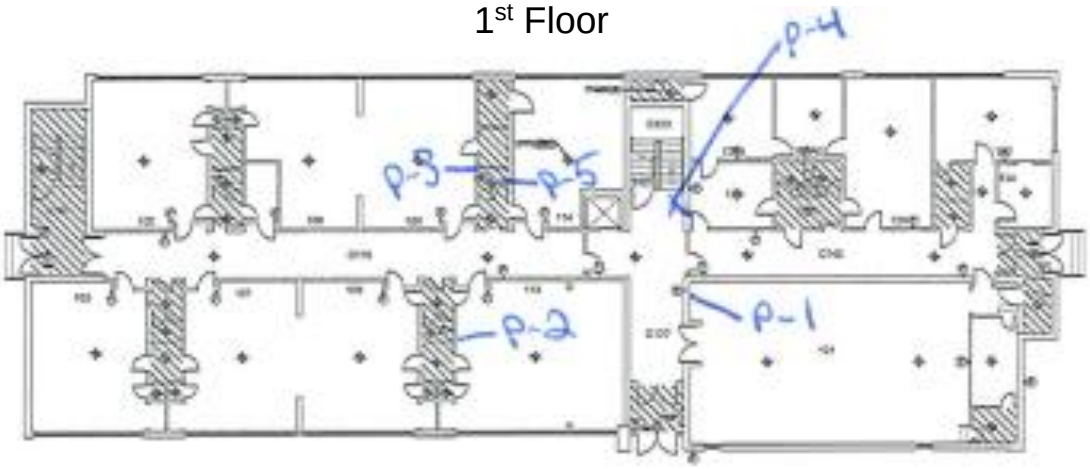
☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

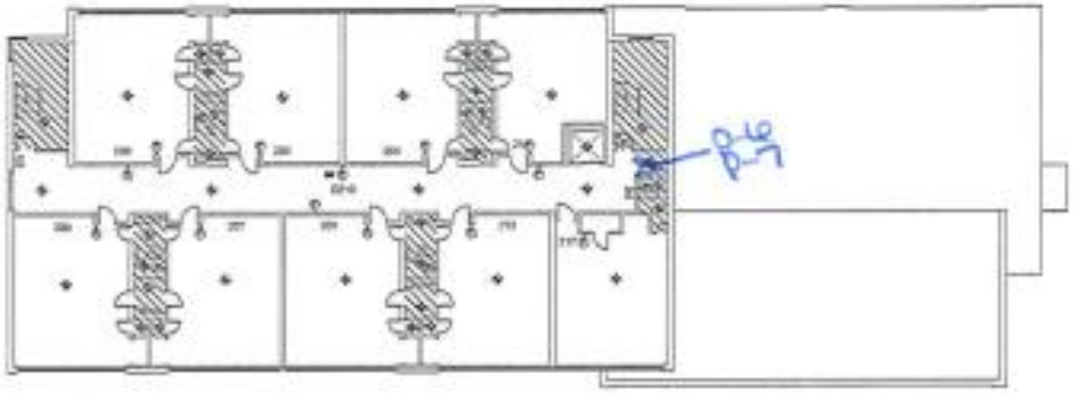
APPENDIX C

SAMPLE LOCATIONS

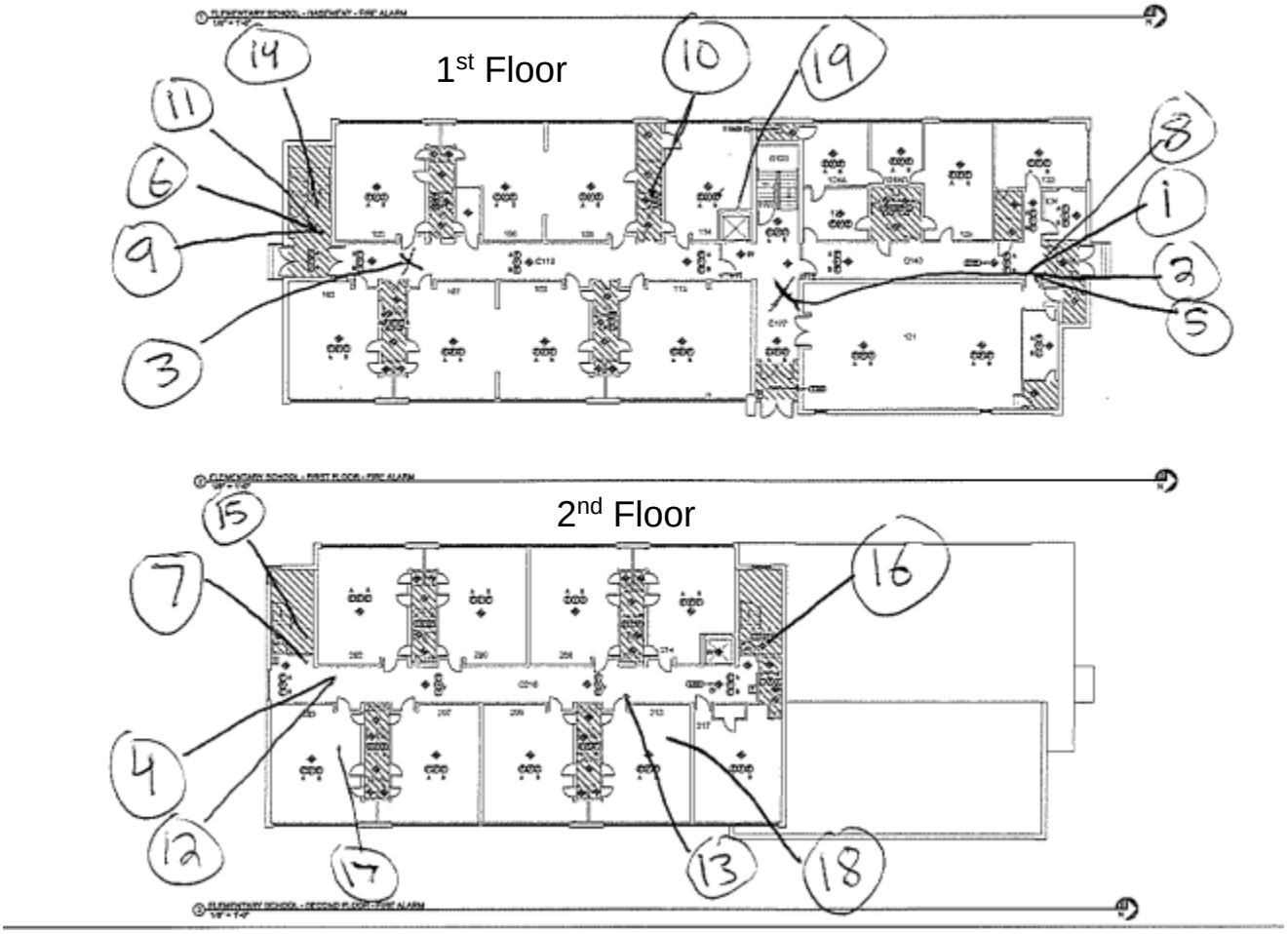
1st Floor



2nd Floor



Project No. 204BS06743	Date: February 12, 2024	ATLAS 11117 Mockingbird Drive Omaha, NE 68137 PH. (402) 697-9747	**Impacted Material Locations**
Project Manager: Steve Hudson, MS, CIE, CIEC			Iowa School for the Deaf – Elementary School Building 3501 Harry Langdon Boulevard Council Bluffs, Iowa
Name: Lead Sample Locations Sketch			



Project No. 204BS06743	Date: February 12, 2024	ATLAS 11117 Mockingbird Drive Omaha, NE 68137 PH. (402) 697-9747	**Impacted Material Locations**
Project Manager: Steve Hudson, MS, CIE, CIEC			Iowa School for the Deaf – Elementary School Building 3501 Harry Langdon Boulevard Council Bluffs, Iowa
Name: Lead Sample Locations Sketch			

APPENDIX D

STAFF ACCREDITATIONS

February 2, 2024

Tim S Jacobsen
11117 Mockingbird Drive
Omaha, NE 68137

Dear Tim S Jacobsen

The department has reviewed the information you submitted and determined that you have met the requirements for certification in the state of Iowa as a Lead Inspector/Risk Assessor. Your certification number is: LEAD-INSP10070.

Your certification will expire on February 19, 2027. By that date, you must renew your certification in order to perform any lead professional certification activities. To renew your certification, you will need to have completed the appropriate refresher course. Refresher courses are valid if taken within 3-years from the date that you renew.

Please keep a copy of your certification on your person or in an easily retrievable area at the work site. If you submitted your application online or with a valid email address, the certification is being provided to you electronically. You may choose to either print these documents or have them available on your phone or other electronic device for display if requested.

You can find the certification requirements and work practice standards for all lead professionals in Iowa Administrative Code 641 - Chapter 70, which is at: http://www.idph.iowa.gov/LPP under "Resources". You **must** be currently certified to perform work that requires certification.

Bureau of Environmental Health Services
Lead Professional Certification
Phone: 800-972-2026
E-mail: Lead.Bureau@idph.iowa.gov

IOWA DEPARTMENT OF PUBLIC HEALTH

Tim S Jacobsen

Lead Inspector/Risk Assessor

Certification Number: LEAD-INSP10070

Expiration Date: February 19, 2027

TIM JACOBSEN

DOB: 07-08-1977

Issued: 01-16-2024

This person is licensed to perform asbestos work in the State of Iowa. ID card is intended for official use only and must be present on jobsite.

License Type	Number	Expires
INSPECTOR	24-11139	01-03-2025
MANAGEMENT PLANNER	24-11140	01-03-2025
PROJECT DESIGNER	24-11141	01-04-2025

DIVISION OF IOWA LABOR

Asbestos

Larry Johnson, Jr.
Labor Commissioner