

**Van Buren Public Schools Savage and Tyler Elementary School
Secured Entry Renovation**

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Secured Entry Renovation**

Addendum No. 1

October 21, 2024

This Addendum and all attachments shall hereby be and become a part of the Contract Documents the same as if originally bound therein. The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum. Bidders are responsible for becoming familiar with every item of this Addendum.

Each bidder shall acknowledge receipt of this addendum on their Bid Proposal form. Any questions regarding this addendum should be submitted via Building Connected project Messages or via email to Mark Davenport Project Manager mark@davenportbrothers.com

Bid documents are available on Building Connected at the following link, including all addendum attachments:

<https://app.buildingconnected.com/public/586e447faea7a50f00fa5702>

ADDENDUM INFORMATION:

1. Changes are made regarding Asbestos' Abatement
 - a. In this bid package the bid package 02-01 Demolition Note D4, on Drawing 1.A1.1 for Savage and Tyler School
Under Notes States, remove doors, storefront framing, glazing, sill, sealant, anchors, wood blocking, and associated soffit / ceiling elements as required for installation of new work.
This is shown in Asbestos Abatement Specification as Note D10 at Room 35 resources and 36 Intervention's Room's both Savage and Tyler Schools.
The work above will not be included in demolition Bid Category 02-01 Demolition as this contains asbestos caulking.
Owner will hire an Abatement contractor to remove complete storefront framing, glazing, sill, sealant, anchors, wood blocking that contains asbestos:
2. 02-01 Demolition contractors is still responsible for C2 CORRIDOR Entry door removal
3. Issued copy of Asbestos Abatement Specification of Savage and Tyler is attached to this Addendum.
4. 02-01 Demolition contractor is responsible for removal of any masonry lintels and masonry units above existing store front assemblies and above ceilings to below roof decking which is noted as D2 Scope of work (photos attached)
5. Attached is additional photos showing room carpeting that was installed recently In which asbestos glue was removed prior to this installation.

Bid date is unchanged

ADDENDUM ATTACHMENTS:

1. ETC Asbestos Abatement Specifications
2. Davenport Photo's



**ASBESTOS ABATEMENT
TYLER ELEMENTARY
SAVAGE ELEMENTARY**

Dated: October 25, 2023

Prepared for:

*Van Buren Schools
555 West Columbia. St.
Belleville, MI 48111
734-787-7597*

Prepared by:

Environmental Testing and Consulting 38900
Huron River Drive
Romulus, Michigan 48174
Phone: (734) 955-6600
ETC Project Number: 261386, 261387,
261388

Tyler Elementary School

**Tyler Elementary
Asbestos Abatement**

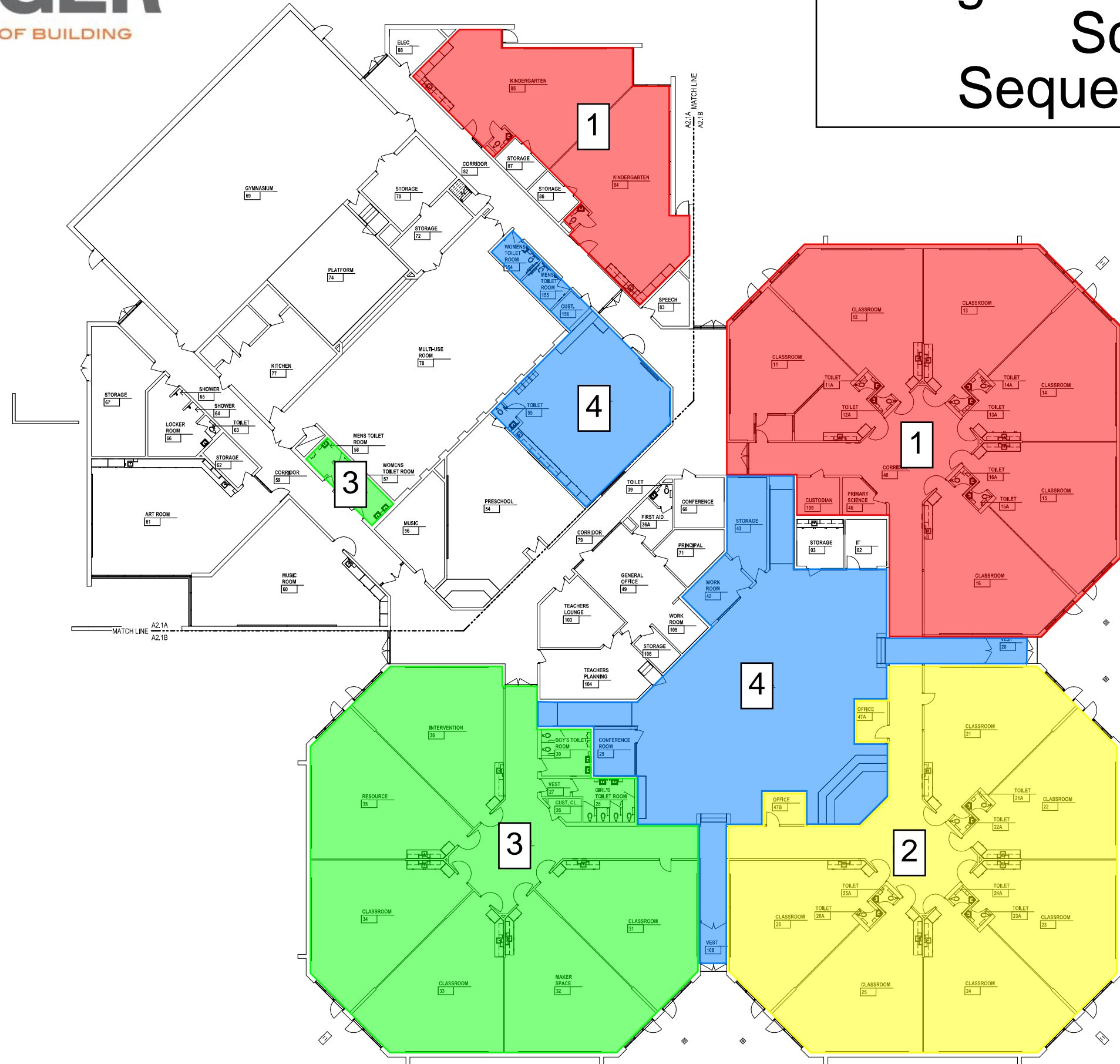
Materials to be removed, carefully wrapped and disposed of as asbestos containing / asbestos contaminated.

- Sink Undercoating Black – 20 Drinking Fountain Sink Units (1 unit per room) Not indicated on Drawings
 - Kindergarten rooms 1 & 2, rooms 11-16, room 21-26, rooms 31-36
- Individual Doors Only (43 doors)
 - Locations on attached drawings
- Doors, Frames and Associated Windows and Glazing (24)
 - Locations on attached drawings

Materials to be removed following full enclosure methodology

- Yellow Floor tile and Black floor tile and mastic – Total 154 SF
 - Locations on attached drawings

Savage & Tyler Elementary Schools Sequencing Plan



GENERAL NOTES

DEMOLITION PLAN

- ALL DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLAN. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS AS REQUIRED TO FACILITATE NEW CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE TEMPORARY DUSTPROOF PARTITIONS WITH DOORS AT LOCATIONS INDICATED AND/OR AS REQUIRED TO ADEQUATELY SEPARATE OCCUPIED AREAS FROM CONSTRUCTION HAZARDS, NOISE AND/OR DUST. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE ALL LOCATIONS WITH ARCHITECTS/OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL PROVIDE DUST MATS AT ALL CONSTRUCTION AREA ENTRANCES AND EXIT LOCATIONS. COORDINATE ALL LOCATIONS WITH ARCHITECTS/OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL MEANS OF EGRESS AND ALL FIRE PROTECTION FEATURES FOR PORTIONS OF THE BUILDING THAT REMAIN OCCUPIED DURING CONSTRUCTION.
- COORDINATE SCOPE AND EXTENT OF DEMOLITION WITH NEW WORK PLANS AND DETAILS.
- REFER TO MECHANICAL AND ELECTRICAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
- CONTRACTOR IS TO REMOVE DAMAGED CONCRETE, MASONRY, & ABANDONED MISCELLANEOUS WALL ITEMS (FASTENERS, HOOKS, ANCHORS, CONDUIT, WIREMOLDING, ETC) AS REQUIRED FOR NEW CONSTRUCTION, FINISHES, & ROOM CONFIGURATIONS.

LEGEND

DEMOLITION PLAN

NOTE: NOT ALL SYMBOLS MAY BE USED

- EXISTING TO BE REMOVED
- EXISTING TO REMAIN
- EXISTING CEILING TO BE REMOVED AS NOTED BY KEYNOTE
- EXISTING FLOORFINISH TO BE REMOVED AS NOTED BY KEYNOTE
- SAWCUT AND REMOVE PORTION OF CONC SLAB AS NOTED BY KEYNOTE

KEYNOTES

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- D3 REMOVE PORTION OF MASONRY WALL. COORDINATE WITH NEW WORK PLANS.
- D5 REMOVE ACOUSTICAL CEILING TILES AND GRID.
- D7 REMOVE CARPET, BASE AND ADHESIVE DOWN TO TOP OF STRUCTURAL SLAB.
- D8 REMOVE WINDOW FRAME, GLASS, WINDOW TREATMENTS, SILL SEALANT, ANCHORS, WOOD BLOCKING, AND ASSOCIATED GYPSUM BOARD SOFFITS / CEILING ELEMENTS AS REQUIRED FOR INSTALLATION OF NEW WORK.
- D9 REMOVE CERAMIC TILE, TILE BASE, MARBLE SILL, AND GROUT DOWN TO TOP OF STRUCTURAL SLAB.
- D10 REMOVE DOOR FRAME, GLAZING, AND ASSOCIATED HARDWARE. SALVAGE BARRICADE HARDWARE IF PRESENT.
- D11 REMOVE BASE CABINETS, COUNTERTOP, BACKSPLASH AND/OR WALL MOUNTED CABINETS IN THEIR ENTIRETY.
- D12 REMOVE TOILET PARTITIONS AND ACCESSORIES: MIRROR, SOAP DISPENSER, TOILET PAPER DISPENSER, TOILET PAPER HOLDER, GRAB BARS, SHELVES, DOORSTOPS, BABY CHANGING STATIONS ETC...
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- D19 REMOVE DEMOUNTABLE PARTITION WALL (BOARDS, METAL STUDS, BASE) ENTIRELY. COORDINATE WITH NEW WORK PLANS.
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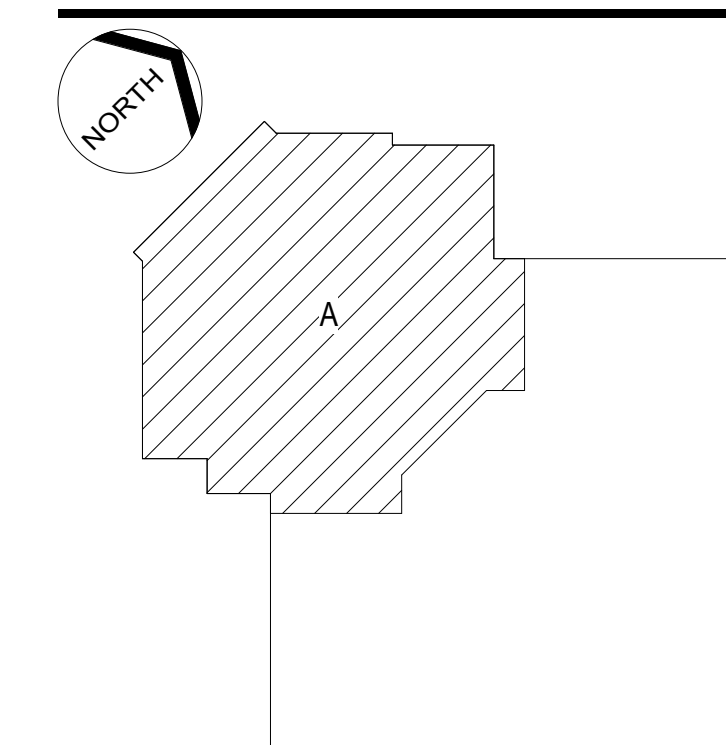


Van Buren Public Schools

Tyler Elementary School Renovations

42200 Tyler Rd
Belleville, MI 48111

Key Plan



Project Administrator

V. Grant

Project Designer

C. Koeth

Project Architect / Engineer

C. King

Drawn By

A. Pfeiffer

Q.M. Review

N. LaForest

Approved

B. Sundberg

Drawing Scale

1/8" = 1'-0"

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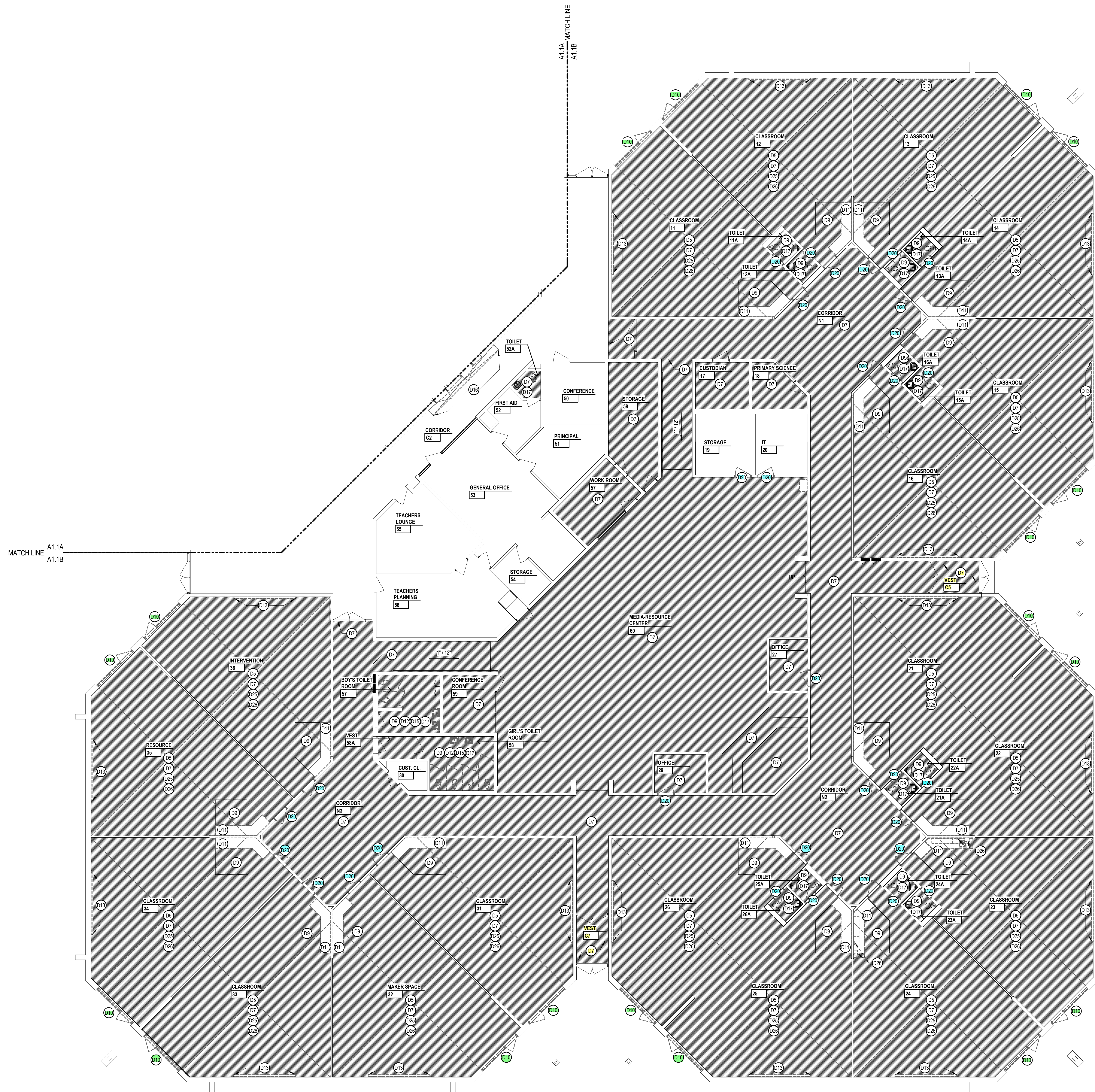
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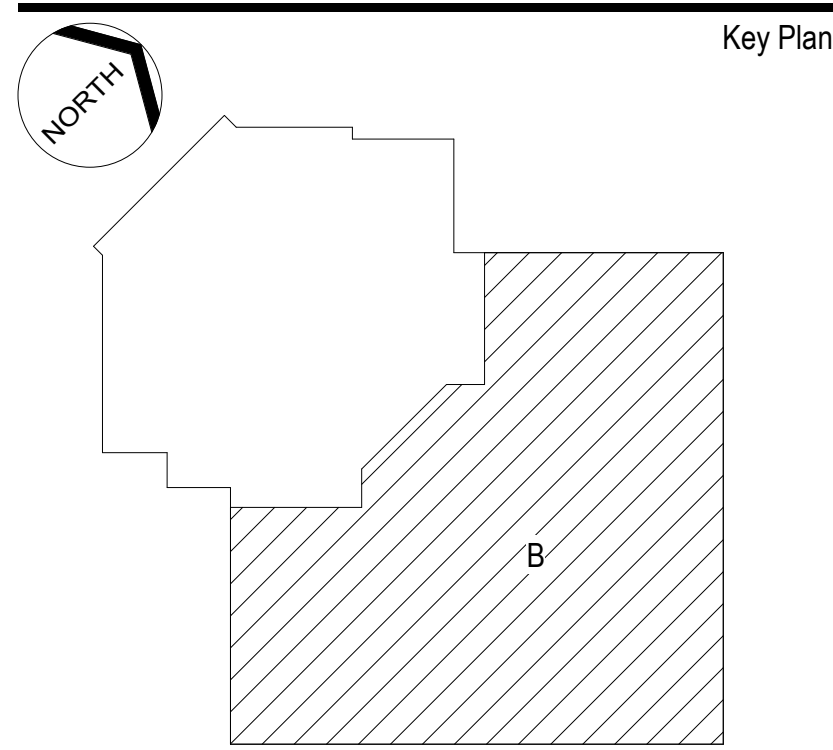


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Savage Elementary School

**Savage Elementary
Asbestos Abatement**

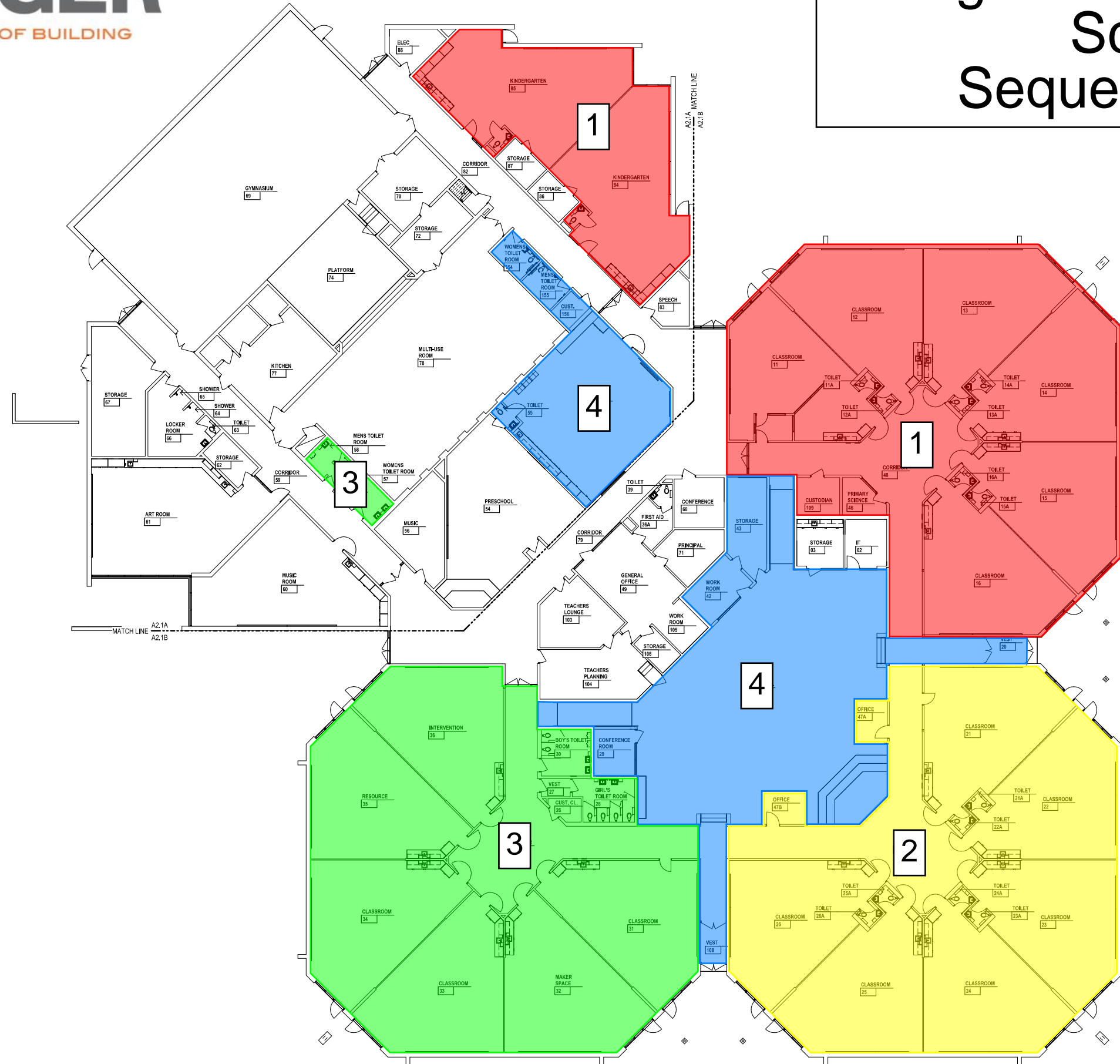
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- Individual Doors Only (46 doors)
 - Locations on attached drawings
- Doors, Frames and Associated Windows and Glazing (25)
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Materials to be removed following full enclosure methodology

- Yellow Floor tile and Black mastic – Total 154 SF
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- Tan Floor tile and Black mastic – Total 612 SF
 - Locations on attached drawings
- Wall/Window Caulk – grey putty like – Total 76 LF
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Savage & Tyler Elementary Schools Sequencing Plan



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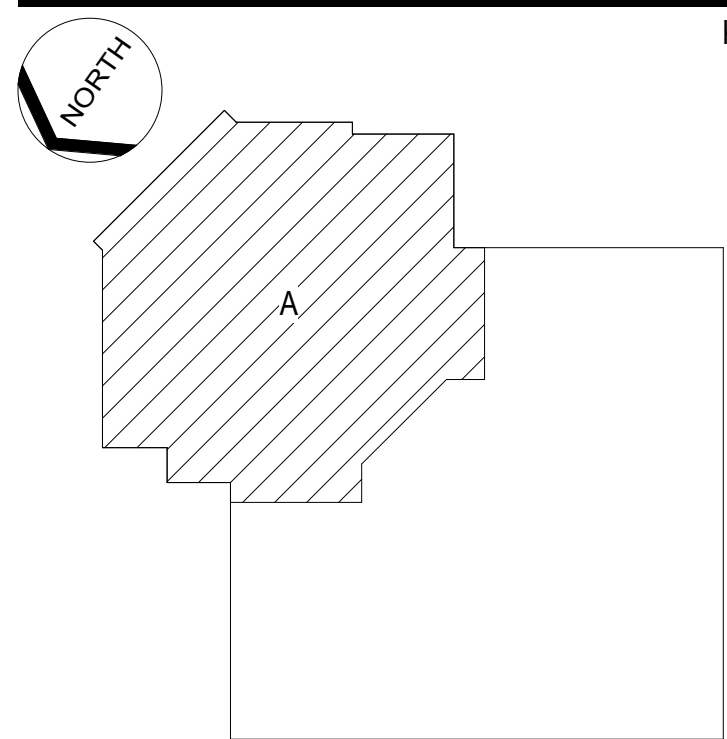


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iDS Drawing Title

First Floor Demolition Plan Area A

105 Project Number Drawing Number

20111-3000 A1.1A

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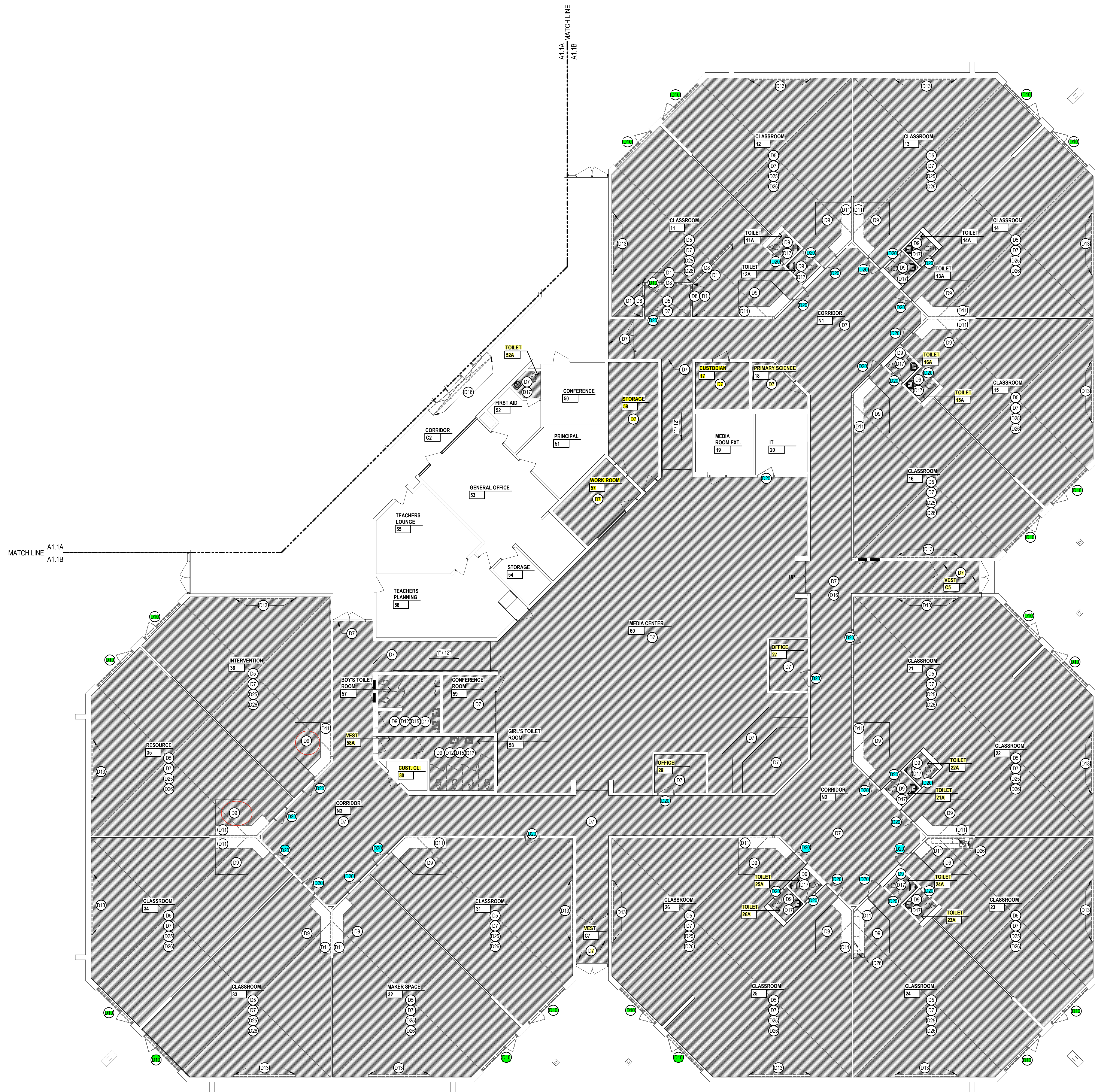
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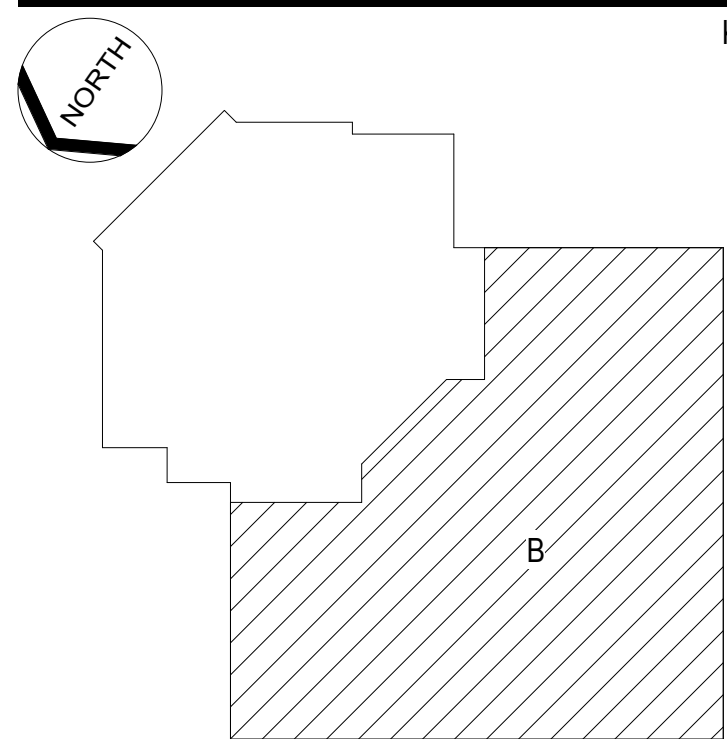


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iDS Drawing Title

First Floor Demolition Plan Area B

108 Project Number

Drawing Number

20111-3000

A1.1B

Appendix A

Bulk Sampling / Asbestos Survey Information

Appendix A-1

Tyler School Bulk Sample Results



REVISED REPORT

To: Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

ETL Job: 261387
Client Project: 261387

Attention: James Williams
Project Location: 42200 Tyler Rd, Belleville, MI 48111
Tyler Elementary

Lab Sample Number	Client Sample Number	Sample Type	Completed
1582238	100A	Asbestos	10/03/2023
1582239	100B	Asbestos	10/03/2023
1582240	100C	Asbestos	10/03/2023
1582241	101A	Asbestos	10/03/2023
1582242	101B	Asbestos	10/03/2023
1582243	101C	Asbestos	10/03/2023
1582244	102A	Asbestos	10/03/2023
1582245	102B	Asbestos	10/03/2023
1582246	102C	Asbestos	10/03/2023
1582247	103A	Asbestos	10/03/2023
1582248	103B	Asbestos	10/03/2023
1582249	103C	Asbestos	10/03/2023
1582250	104A	Asbestos	10/03/2023
1582251	104B	Asbestos	10/03/2023
1582252	104C	Asbestos	10/03/2023
1582253	105A	Asbestos	10/03/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1582254	105B	Asbestos	10/03/2023
1582255	105C	Asbestos	10/03/2023
1582256	106A	Asbestos	10/03/2023
1582257	106B	Asbestos	10/03/2023
1582258	106C	Asbestos	10/03/2023
1582259	107A	Asbestos	10/03/2023
1582260	107B	Asbestos	10/03/2023
1582261	107C	Asbestos	10/03/2023
1582262	108A	Asbestos	10/03/2023
1582263	108B	Asbestos	10/03/2023
1582264	108C	Asbestos	10/03/2023
1582265	109A	Asbestos	10/03/2023
1582266	109B	Asbestos	10/03/2023
1582267	109C	Asbestos	10/03/2023
1582268	110A	Asbestos	10/03/2023
1582269	110B	Asbestos	10/03/2023
1582270	110C	Asbestos	10/03/2023
1582271	111A	Asbestos	10/03/2023
1582272	111B	Asbestos	10/03/2023
1582273	111C	Asbestos	10/03/2023
1582274	112A	Asbestos	10/03/2023
1582275	112B	Asbestos	10/03/2023
1582276	112C	Asbestos	10/03/2023
1582277	113A	Asbestos	10/03/2023
1582278	113B	Asbestos	10/03/2023
1582279	113C	Asbestos	10/03/2023
1582280	114A	Asbestos	10/03/2023

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Lab Sample Number	Client Sample Number	Sample Type	Completed
1582281	114B	Asbestos	10/03/2023
1582282	114C	Asbestos	10/03/2023
1582283	115A	Asbestos	10/03/2023
1582284	115B	Asbestos	10/03/2023
1582285	115C	Asbestos	10/03/2023
1582286	116A	Asbestos	10/03/2023
1582287	116B	Asbestos	10/03/2023
1582288	116C	Asbestos	10/03/2023
1582289	117A	Asbestos	10/03/2023
1582290	117B	Asbestos	10/03/2023
1582291	117C	Asbestos	10/03/2023
1582292	118A	Asbestos	10/03/2023
1582293	118B	Asbestos	10/03/2023
1582294	118C	Asbestos	10/03/2023
1582295	119A	Asbestos	10/03/2023
1582296	119B	Asbestos	10/03/2023
1582297	119C	Asbestos	10/03/2023
1582298	120A	Asbestos	10/03/2023
1582299	120B	Asbestos	10/03/2023
1582300	120C	Asbestos	10/03/2023
1582301	121A	Asbestos	10/03/2023
1582302	121B	Asbestos	10/03/2023
1582303	121C	Asbestos	10/03/2023
1582304	122A	Asbestos	10/03/2023
1582305	122B	Asbestos	10/03/2023
1582306	122C	Asbestos	10/03/2023
1582307	123A	Asbestos	10/03/2023

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Lab Sample Number	Client Sample Number	Sample Type	Completed
1582308	123B	Asbestos	10/03/2023
1582309	123C	Asbestos	10/03/2023
1582310	124A	Asbestos	10/03/2023
1582311	124B	Asbestos	10/03/2023
1582312	124C	Asbestos	10/03/2023
1582313	125A	Asbestos	10/03/2023
1582314	125B	Asbestos	10/03/2023
1582315	125C	Asbestos	10/03/2023
1582316	126A	Asbestos	10/03/2023
1582317	126B	Asbestos	10/03/2023
1582318	126C	Asbestos	10/03/2023
1582319	127A	Asbestos	10/03/2023
1582320	127B	Asbestos	10/03/2023
1582321	127C	Asbestos	10/03/2023
1582322	128A	Asbestos	10/03/2023
1582323	128B	Asbestos	10/03/2023
1582324	128C	Asbestos	10/03/2023
1582325	129A	Asbestos	10/03/2023
1582326	129B	Asbestos	10/03/2023
1582327	129C	Asbestos	10/03/2023
1582328	130A	Asbestos	10/03/2023
1582329	130B	Asbestos	10/03/2023
1582330	130C	Asbestos	10/03/2023
1582331	131A	Asbestos	10/03/2023
1582332	131B	Asbestos	10/03/2023
1582333	131C	Asbestos	10/03/2023
1582334	132A	Asbestos	10/03/2023

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Lab Sample Number	Client Sample Number	Sample Type	Completed
1582335	132B	Asbestos	10/03/2023
1582336	132C	Asbestos	10/03/2023
1582337	133A	Asbestos	10/03/2023
1582338	133B	Asbestos	10/03/2023
1582339	133C	Asbestos	10/03/2023
1582340	134A	Asbestos	10/03/2023
1582341	134B	Asbestos	10/03/2023
1582342	134C	Asbestos	10/03/2023
1582343	135A	Asbestos	10/03/2023
1582344	135B	Asbestos	10/03/2023
1582345	135C	Asbestos	10/03/2023
1582346	136A	Asbestos	10/03/2023
1582347	136B	Asbestos	10/03/2023
1582348	136C	Asbestos	10/03/2023
1585387	102D	Asbestos	10/12/2023
1585388	102E	Asbestos	10/12/2023
1585389	102F	Asbestos	10/12/2023
1585390	102G	Asbestos	10/12/2023
1585391	133A	Asbestos	10/12/2023
1585392	137A	Asbestos	10/12/2023
1585393	137B	Asbestos	10/13/2023
1585394	137C	Asbestos	10/12/2023
1586090	130D	Asbestos	10/16/2023
1586091	130E	Asbestos	10/16/2023
1586092	130F	Asbestos	10/16/2023
1586093	130G	Asbestos	10/16/2023
1586094	130H	Asbestos	10/16/2023

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Lab Sample Number	Client Sample Number	Sample Type	Completed
1588793	138A	Asbestos	10/24/2023
1588794	138B	Asbestos	10/24/2023
1588795	138C	Asbestos	10/24/2023
1588796	139A	Asbestos	10/24/2023
1588797	139B	Asbestos	10/24/2023
1588798	139C	Asbestos	10/24/2023
1588799	140A	Asbestos	10/24/2023
1588800	140B	Asbestos	10/24/2023
1588801	140C	Asbestos	10/24/2023
1588802	141A	Asbestos	10/24/2023
1588803	141B	Asbestos	10/24/2023
1588804	141C	Asbestos	10/24/2023
1588805	142A	Asbestos	10/24/2023
1588806	142B	Asbestos	10/24/2023
1588807	142C	Asbestos	10/24/2023
1588808	143A	Asbestos	10/24/2023
1588809	143B	Asbestos	10/24/2023
1588810	143C	Asbestos	10/24/2023
1588811	144A	Asbestos	10/24/2023
1588812	144B	Asbestos	10/24/2023
1588813	144C	Asbestos	10/24/2023
1588814	145A	Asbestos	10/24/2023
1588815	145B	Asbestos	10/24/2023
1588816	145C	Asbestos	10/24/2023
1588817	146A	Asbestos	10/24/2023
1588818	146B	Asbestos	10/24/2023
1588819	146C	Asbestos	10/24/2023

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Lab Sample Number	Client Sample Number	Sample Type	Completed
1588820	147A	Asbestos	10/24/2023
1588821	147B	Asbestos	10/24/2023
1588822	147C	Asbestos	10/24/2023
1588823	148A	Asbestos	10/24/2023
1588824	148B	Asbestos	10/24/2023
1588825	148C	Asbestos	10/24/2023
1588826	149	Asbestos	10/24/2023
1588827	149B	Asbestos	10/24/2023
1588828	149C	Asbestos	10/24/2023
1588829	150A	Asbestos	10/24/2023
1588830	150B	Asbestos	10/24/2023
1588831	150C	Asbestos	10/24/2023

Reviewed by: *Madeline Palmer*
 Madeline Palmer

Summary

Method	Sample	Layer	Mastic
PLM	169		3

Revision History

Revised Date	Revised By	Revision Comment
10/24/2023	Chris Canilao	Add-On 138-150
10/16/2023	Lili Calderon-Moscip	Add-On
10/13/2023	Jessica Dilworth	Material description clerical revisions for 128 & 136
10/13/2023	Jessica Dilworth	Samples 101A-C - point counts removed
10/13/2023	Jessica Dilworth	Sample 137B analyzed
10/12/2023	Emily Spotts	Samples Added: 1585387-394
10/06/2023	Chris Canilao	Added Point Counts; Samples 101A-C
10/06/2023	Chris Canilao	Reanalyzed samples 101A-C

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Certificate of Analysis

Environmental Testing Laboratories, Inc.
 37575 W Huron River Drive
 Romulus, Michigan 48174
 (734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261387
 Client Project : 261387
 Date Collected : 09/25/2023
 Date Received : 09/29/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582238 100A Room 11 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Window Caulk	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 96% Other	PLM 2% Chrysotile
1582239 100B Room 12 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023 Layer Not Analyzed		Positive Stop			
1582240 100C Room 13 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023 Layer Not Analyzed		Positive Stop			
1582241 101A Kindergarten 1 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Sink Undercoating	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 96% Other	PLM 2% Chrysotile
1582242 101B Kindergarten 2 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Sink Undercoating	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 96% Other	PLM 2% Chrysotile
1582243 101C Room 11 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Sink Undercoating	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 96% Other	PLM 2% Chrysotile

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NVLAP LAB CODE 201028-0

Certificate of Analysis

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

ETL Job : 261387
Client Project : 261387
Date Collected : 09/25/2023
Date Received : 09/29/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582244 102A Kindergarten 1 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Window Glazing	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582245 102B Room 34 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Window Glazing	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582246 102C Art 9 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Window Glazing	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582247 103A Kindergarten 1 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Cove Base	Blue Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582248 103B Kindergarten 2 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Cove Base	Blue Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582249 103C Room 11 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Cove Base	Blue Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

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Certificate of Analysis

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261387
 Client Project : 261387
 Date Collected : 09/25/2023
 Date Received : 09/29/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582250 104A Kindergarten 1 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Cove Base Mastic	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582251 104B Room 14 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Cove Base Mastic	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582252 104C Room 25 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Cove Base Mastic	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582253 105A Kindergarten 1 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Cove Base Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582254 105B Kindergarten 2 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Cove Base Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582255 105C Room 11 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Cove Base Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

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NVLAP LAB CODE 201028-0

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38900 Huron River Drive
Romulus, MI 48174

ETL Job : 261387
Client Project : 261387
Date Collected : 09/25/2023
Date Received : 09/29/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582256 106A Kindergarten 1 Storage Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Cove Base	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582257 106B Kindergarten 2 Storage Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Cove Base	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582258 106C Custodial Closet 31-36 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Cove Base	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582259 107A Kindergarten 1 Storage Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Cove Base Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582260 107B Kindergarten 2 Storage Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Cove Base Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582261 107C Custodial Closet 31-36 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Cove Base Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261387
Client Project : 261387
Date Collected : 09/25/2023
Date Received : 09/29/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582262 108A Room 13 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023 Layer Not Analyzed		Layer Missing			
1582263 108B Room 14 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Caulk	Yellow Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582264 108C Room 15 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Caulk	Yellow Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582265 109A Room 12 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Pipe Insulation	Tan Fibrous Homogenous	PLM 2% Cellulose PLM 95% Fiberglass	PLM 3% Other	PLM None Detected
1582266 109B Room 13 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Pipe Insulation	Tan Fibrous Homogenous	PLM 2% Cellulose PLM 95% Fiberglass	PLM 3% Other	PLM None Detected
1582267 109C Room 14 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Pipe Insulation	Tan Fibrous Homogenous	PLM 2% Cellulose PLM 95% Fiberglass	PLM 3% Other	PLM None Detected

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Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582268 110A Kindergarten 2 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Window Glazing	Clear Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582269 110B Room 12 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Window Glazing	Clear Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582270 110C Room 13 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Window Glazing	Clear Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582271 111A Room 12 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Drywall	White/Tan Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
1582272 111B Room 13 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Drywall	White/Tan Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261387
Client Project : 261387
Date Collected : 09/25/2023
Date Received : 09/29/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582273 111C Room 14 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Drywall	White/Tan Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
1582273 111C Room 14 Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Mud	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1582274 112A Room 11 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Pipe Joint Insulation	Off White/Grey Fibrous Homogenous	PLM 30% Cellulose PLM 30% Fiberglass	PLM 40% Other	PLM None Detected
1582275 112B Room 12 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Pipe Joint Insulation	Off White/Grey Fibrous Homogenous	PLM 30% Cellulose PLM 30% Fiberglass	PLM 40% Other	PLM None Detected
1582276 112C Room 13 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Pipe Joint Insulation	Off White/Grey Fibrous Homogenous	PLM 30% Cellulose PLM 30% Fiberglass	PLM 40% Other	PLM None Detected
1582277 113A Room 16 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Duct Insulation	Grey/Tan Fibrous Homogenous	PLM 1% Cellulose PLM 50% Fiberglass	PLM 49% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582278 113B Room 21 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Duct Insulation	Grey/Tan Fibrous Homogenous	PLM 1% Cellulose PLM 50% Fiberglass	PLM 49% Other	PLM None Detected
1582279 113C Room 22 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Duct Insulation	Grey/Tan Fibrous Homogenous	PLM 1% Cellulose PLM 50% Fiberglass	PLM 49% Other	PLM None Detected
1582280 114A Art 9 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Wall/Window Caulk	Grey Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582281 114B Art 9 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Wall/Window Caulk	Grey Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582282 114C Art 9 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Wall/Window Caulk	Grey Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582283 115A Mechanical Room off Multi-Purpose Room Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Duct Tape	Grey/Silver/Tan Fibrous Homogenous	PLM 50% Cellulose	PLM 50% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582284 115B	Duct Tape Mechanical Room off Multi-Purpose Room	Grey/Silver/Tan Fibrous Homogenous	PLM 50% Cellulose	PLM 50% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023					
1582285 115C	Duct Tape Above Ceiling of Centrum 11-16	Grey/Silver/Tan Fibrous Homogenous	PLM 50% Cellulose	PLM 50% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023					
1582286 116A	Duct Caulk Mechanical Room in Kindergarten Hall	Dark Grey Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023					
1582287 116B	Duct Caulk Mechanical Room in Kindergarten Hall	Dark Grey Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023					
1582288 116C	Duct Caulk Mechanical Room in Kindergarten Hall	Dark Grey Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023					
1582289 117A	Sink Undercoating Room 9	Pink Non-Fibrous Non-Homogenous	PLM 1% Cellulose	PLM 97% Other	PLM 2% Chrysotile
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023					

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 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582290 117B Main Office Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023 Sample Not Analyzed		Positive Stop			
1582291 117C Music Room Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023 Sample Not Analyzed		Positive Stop			
1582292 118A Corridor 28 Boys Bathroom Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Caulk	White Non-Fibrous Non-Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582293 118B Custodian Closet 11-16 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Caulk	White Non-Fibrous Non-Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582294 118C Girls Bathroom 31-36 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Caulk	White Non-Fibrous Non-Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582295 119A Foyer by Door 15A Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Floor Tile	Yellow Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582295 119A Foyer by Door 15A Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Mastic	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582296 119B Foyer by Door 8 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Floor Tile	Yellow Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582296 119B Foyer by Door 8 Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Mastic	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582297 119C Lounge Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Floor Tile	Yellow Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582297 119C Lounge Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Mastic	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582298 120A Mechanical Room above Custodian Closet 11-16 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Duct Insulation	Gray Fibrous Homogenous	PLM 5% Cellulose PLM Trace Fiberglass	PLM 95% Other	PLM None Detected
1582298 120A Mechanical Room above Custodian Closet 11-16 Layer-2 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Duct Insulation	Yellow Fibrous Homogenous	PLM 2% Cellulose PLM 75% Fiberglass	PLM 23% Other	PLM None Detected
1582299 120B Mechanical Room off Kindergarten hall Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Duct Insulation	Gray Fibrous Homogenous	PLM 5% Cellulose PLM Trace Fiberglass	PLM 95% Other	PLM None Detected
1582299 120B Mechanical Room off Kindergarten hall Layer-2 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Duct Insulation	Yellow Fibrous Homogenous	PLM 2% Cellulose PLM 75% Fiberglass	PLM 23% Other	PLM None Detected
1582300 120C Mechanical Room above Custodian Closet 31-36 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Duct Insulation	Gray Fibrous Homogenous	PLM 5% Cellulose PLM Trace Fiberglass	PLM 95% Other	PLM None Detected
1582300 120C Mechanical Room above Custodian Closet 31-36 Layer-2 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Duct Insulation	Yellow Fibrous Homogenous	PLM 2% Cellulose PLM 75% Fiberglass	PLM 23% Other	PLM None Detected

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Certificate of Analysis

Environmental Testing Laboratories, Inc.
 37575 W Huron River Drive
 Romulus, Michigan 48174
 (734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive
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ETL Job : 261387
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582301 121A Stage Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Stage Curtain	Blue Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected
1582302 121B Stage Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Stage Curtain	Blue Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected
1582303 121C Stage Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Stage Curtain	Blue Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected
1582304 122A Mechanical Room above Custodian Closet 11-16 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Duct Expansion Cloth	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1582305 122B Mechanical Room above Custodian Closet 11-16 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Duct Expansion Cloth	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1582306 122C Mechanical Room above Custodian Closet 31-36 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Duct Expansion Cloth	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582307 123A Mechanical Room above Custodian Closet 11-16 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Duct Caulk	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582308 123B Mechanical Room above Custodian Closet 11-16 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Duct Caulk	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582309 123C Mechanical Room above Custodian Closet 11-16 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Duct Caulk	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582310 124A Above Ceiling in Corridor to Door 22 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Duct Insulation	Silver Fibrous Non-Homogenous	PLM 10% Cellulose PLM 70% Fiberglass	PLM 20% Other	PLM None Detected
1582311 124B Mechanical Room above Custodian Closet 31-36 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Duct Insulation	Silver Fibrous Non-Homogenous	PLM 10% Cellulose PLM 70% Fiberglass	PLM 20% Other	PLM None Detected
1582312 124C Mechanical Room above Custodian Closet 31-36 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Duct Insulation	Silver Fibrous Non-Homogenous	PLM 10% Cellulose PLM 70% Fiberglass	PLM 20% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582313 125A Centrum Ceiling (31-36) Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Ceiling Tile	Gray Fibrous Homogenous	PLM 60% Cellulose PLM Trace Fiberglass	PLM 40% Other	PLM None Detected
1582314 125B Centrum Ceiling (21-26) Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Ceiling Tile	Gray Fibrous Homogenous	PLM 60% Cellulose PLM Trace Fiberglass	PLM 40% Other	PLM None Detected
1582315 125C Kindergarten Room 1 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Ceiling Tile	Gray Fibrous Homogenous	PLM 60% Cellulose PLM Trace Fiberglass	PLM 40% Other	PLM None Detected
1582316 126A Room 39 Bathroom Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Sink Caulk	Clear Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582317 126B Kitchen Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Sink Caulk	Clear Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582318 126C Womens Restroom, Corridor 28 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Sink Caulk	Clear Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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1582319 127A Kindergarten Hall Custodian Closet Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Sink Caulk	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582320 127B Kindergarten Hall Custodian Closet Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Sink Caulk	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582321 127C Kindergarten Hall Custodian Closet Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Sink Caulk	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582322 128A Lounge Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Sink Undercoating	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582323 128B Lounge Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Sink Undercoating	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582324 128C Lounge Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Sink Undercoating	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

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Certificate of Analysis

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261387
 Client Project : 261387
 Date Collected : 09/25/2023
 Date Received : 09/29/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582325 129A By Door 28 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582326 129B By Door 26 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582327 129C By Door 22 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582328 130A By Door 1 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Window Glaze	Off-White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582329 130B By Door 20 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Window Glaze	Off-White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582330 130C By Door 21 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Window Glaze	Off-White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

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Certificate of Analysis

Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261387
 Client Project : 261387
 Date Collected : 09/25/2023
 Date Received : 09/29/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582331 131A By Door 28 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582332 131B By Door 26 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582333 131C By Door 22 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582334 132A By Door 28 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582335 132B By Door 26 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582336 132C By Door 22 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261387
Client Project : 261387
Date Collected : 09/25/2023
Date Received : 09/29/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582337 133A By Door 28 Analyst: Emily Spotts Date Analyzed : 10/03/2023 Sample Not Analyzed		Sample Missing			
1582338 133B By Door 26 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	White Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582339 133C By Door 22 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	White Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582340 134A Left of Door 1 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Window Glaze	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582341 134B By Door 18 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Window Glaze	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582342 134C Windows Right of Door 7 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Window Glaze	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

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Certificate of Analysis

Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261387
 Client Project : 261387
 Date Collected : 09/25/2023
 Date Received : 09/29/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582343 135A Window by Door 21 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Window Caulk	Dark Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582344 135B Window Left of Door 11 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Window Caulk	Dark Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582345 135C By Door 7 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Window Caulk	Dark Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582346 136A Door 28 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Door Caulk	Grey Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582347 136B Door 26 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Door Caulk	Grey Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582348 136C Door 8 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Door Caulk	Grey Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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NVLAP LAB CODE 201028-0

Certificate of Analysis

Environmental Testing Laboratories, Inc.



37575 W Huron River Drive
Romulus, Michigan 48174
(734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

ETL Job : 261387

Client Project : 261387

Date Collected : 10/11/2023

Date Received : 10/12/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1585387 102D Room 34 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/12/2023	Window Glaze	Off White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1585388 102E Kindergarten #1 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/12/2023	Window Glaze	Off White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1585389 102F Room 8 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/12/2023	Window Glaze	Off White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1585390 102G Room 9 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/12/2023	Window Glaze	Off White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1585391 133A By Door 28 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/12/2023	Exterior Caulk	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1585392 137A Door Window Unit Leading to Rms 11-16 Corridor Layer-1 Analyst: Emily Spotts Date Analyzed : 10/12/2023	Window Glaze	White/ Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 97% Other	PLM 3% Chrysotile

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261387
Client Project : 261387
Date Collected : 10/11/2023
Date Received : 10/12/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1585393 137B Foyer Doors Leading to Ext Door 15 Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 10/13/2023	Window Glaze	White/ Black Non-Fibrous Homogenous		PLM 97% Other	PLM 3% Chrysotile
1585394 137C Project Room Door Analyst: Emily Spotts Date Analyzed : 10/12/2023 Sample Not Analyzed		Insufficient Material			
1586090 130D Window Left Exterior Door #1 Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/16/2023	Window Glaze	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1586091 130E Window Right Exterior Door #10 Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/16/2023	Window Glaze	White Non-Fibrous Homogenous	PLM 15% Cellulose	PLM 85% Other	PLM None Detected
1586092 130F Window Right Exterior Door #5 Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/16/2023	Window Glaze	White Non-Fibrous Homogenous	PLM 15% Cellulose	PLM 85% Other	PLM None Detected
1586093 130G Window Right of Exterior Door #3 Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/16/2023	Window Glaze	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261387
Client Project : 261387
Date Collected : 10/16/2023
Date Received : 10/16/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1586094 130H Window Right of Exterior Door #19 Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/16/2023	Window Glaze	White Non-Fibrous Homogenous	PLM 15% Cellulose	PLM 85% Other	PLM None Detected
1588793 138A Roof - Ext Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Roofing Material and Adhesive	Gray Non-Fibrous Non-Homogenous		PLM 100% Other	PLM None Detected
1588794 138B Roof - Ext Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Roofing Material	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588795 138C Roof - Ext Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Roofing Material	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588796 139A Fan Room Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Foam Pipe Insulation	Black Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588797 139B Fan Room Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Foam Pipe Insulation	Black Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected

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Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588798 139C Fan Room Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Foam Pipe Insulation	Black Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588799 140A Media Center Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Stair Tread	Brown Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588800 140B Media Center Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Stair Tread	Brown Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588801 140C Media Center Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Stair Tread	Brown Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588802 141A Media Center Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Stair Tread Mastic	Tan Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588803 141B Media Center Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Stair Tread Mastic	Tan Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected

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Certificate of Analysis

Environmental Testing Laboratories, Inc.
 37575 W Huron River Drive
 Romulus, Michigan 48174
 (734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261387
 Client Project : 261387
 Date Collected : 10/23/2023
 Date Received : 10/24/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588804 141C Media Center Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Stair Tread Mastic	Tan Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588805 142A Room 11 Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Ceramic Tile	Beige Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588805 142A Room 11 Layer-2 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Mortar and Paper Backing	Gray Non-Fibrous Non-Homogenous	PLM 50% Cellulose	PLM 50% Other	PLM None Detected
1588805 142A Room 11 Layer-3 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Grout	Gray Non-Fibrous Non-Homogenous		PLM 100% Other	PLM None Detected

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NVLAP LAB CODE 201028-0

Certificate of Analysis

Environmental Testing Laboratories, Inc.



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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

ETL Job : 261387
Client Project : 261387
Date Collected : 10/23/2023
Date Received : 10/24/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588806 142B Room 33 Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Ceramic Tile	Beige Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588806 142B Room 33 Layer-2 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Mortar and Paper Backing	Gray Non-Fibrous Non-Homogenous	PLM 50% Cellulose	PLM 50% Other	PLM None Detected
1588806 142B Room 33 Layer-3 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Grout	Gray Non-Fibrous Non-Homogenous		PLM 100% Other	PLM None Detected
1588807 142C Room 25 Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Ceramic Tile	Beige Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588807 142C Room 25 Layer-2 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Mortar and Paper Backing	Gray Non-Fibrous Non-Homogenous	PLM 50% Cellulose	PLM 50% Other	PLM None Detected
1588807 142C Room 25 Layer-3 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Grout	Gray Non-Fibrous Non-Homogenous		PLM 100% Other	PLM None Detected

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NVLAP LAB CODE 201028-0

Certificate of Analysis

Environmental Testing Laboratories, Inc.



37575 W Huron River Drive
Romulus, Michigan 48174
(734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

ETL Job : 261387
Client Project : 261387
Date Collected : 10/23/2023
Date Received : 10/24/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588808 143A Room 34 Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Glue Pod	Brown Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588809 143B Room 36 Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Glue Pod	Brown Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588810 143C Room 21 Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Glue Pod	Brown Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588811 144A Gym Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	12x12 Floor Tile	Beige Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588812 144B Gym Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	12x12 Floor Tile	Beige Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1588813 144C Gym Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	12x12 Floor Tile	Beige Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected

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Certificate of Analysis

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261387
 Client Project : 261387
 Date Collected : 10/23/2023
 Date Received : 10/24/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588814 145A Gym Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023	Mastic	Black Non-Fibrous Homogenous		PLM 97% Other	PLM 3% Chrysotile
1588815 145B Gym Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023 Layer Not Analyzed		Positive Stop			
1588816 145C Gym Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/24/2023 Layer Not Analyzed		Positive Stop			
1588817 146A Roof Vent Layer-1 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Caulk	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588818 146B Roof Vent Layer-1 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Caulk	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588819 146C Roof Vent Layer-1 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Caulk	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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Certificate of Analysis

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261387
 Client Project : 261387
 Date Collected : 10/23/2023
 Date Received : 10/24/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588820 147A Exterior Layer-1 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Brick	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1588820 147A Exterior Layer-2 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Mortar	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
1588821 147B Exterior Layer-1 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Brick	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1588821 147B Exterior Layer-2 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Mortar	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
1588822 147C Exterior Layer-1 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Brick	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1588822 147C Exterior Layer-2 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Mortar	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261387
Client Project : 261387
Date Collected : 10/23/2023
Date Received : 10/24/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588823 148A Roof Vent Layer-1 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Caulk	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1588824 148B Roof Vent Layer-1 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Caulk	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1588825 148C Roof Vent Layer-1 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Caulk	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1588826 149 Boys Room Layer-1 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Ceramic Tile	Blue Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1588826 149 Boys Room Layer-2 Analyst: Chris Canilao Date Analyzed : 10/24/2023 Layer Not Analyzed		Layer Missing			

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261387
Client Project : 261387
Date Collected : 10/23/2023
Date Received : 10/24/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588827 149B Bathroom 31-36 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Ceramic Tile	Yellow Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1588827 149B Bathroom 31-36 Layer-2 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Grout	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
1588828 149C Bathroom 31-36 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Ceramic Tile	Blue Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1588828 149C Bathroom 31-36 Layer-2 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Grout	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
1588829 150A Roof Ext. Layer-1 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Caulk	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1588830 150B Roof Ext. Layer-1 Analyst: Chris Canilao Date Analyzed : 10/24/2023	Caulk	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261387
Client Project : 261387
Date Collected : 10/23/2023
Date Received : 10/24/2023

Location : 42200 Tyler Rd, Belleville, MI 48111
 Tyler Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588831 150C Roof Ext.	Caulk	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 10/24/2023					

Eleni Kiliaris

Lab Supervisor/Other Signatory

Analyst:

Chris Canilao

Chris Canilao

Lili Calderon-Moscrip

Lili Calderon-Moscrip

Shelby Fogelsong

Shelby Fogelsong

Eleni Kiliaris

Eleni Kiliaris

Emily Spotts

Emily Spotts

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")
 Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples
 Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples
 EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials
 EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples
 A % Asbestos result of "Trace" indicates that the analyzed material was found to contain less than 1% asbestos and would not be considered an Asbestos Containing Material (ACM).

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Appendix A-2

Savage School Bulk Sample Results



REVISED REPORT

To: Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

ETL Job: 261388
Client Project: 261388

Attention: James Williams
Project Location: 42975 Savage Rd, Belleville, MI 48111
Savage Elementary

Lab Sample Number	Client Sample Number	Sample Type	Completed
1582091	100A	Asbestos	10/03/2023
1582092	100B	Asbestos	10/03/2023
1582093	100C	Asbestos	10/03/2023
1582094	101A	Asbestos	10/03/2023
1582095	101B	Asbestos	10/03/2023
1582096	101C	Asbestos	10/03/2023
1582097	102A	Asbestos	10/03/2023
1582098	102B	Asbestos	10/03/2023
1582099	102C	Asbestos	10/03/2023
1582100	103A	Asbestos	10/03/2023
1582101	103B	Asbestos	10/04/2023
1582102	103C	Asbestos	10/04/2023
1582103	104A	Asbestos	10/04/2023
1582104	104B	Asbestos	10/04/2023
1582105	104C	Asbestos	10/04/2023
1582106	105A	Asbestos	10/04/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1582107	105B	Asbestos	10/04/2023
1582108	105C	Asbestos	10/04/2023
1582109	106A	Asbestos	10/04/2023
1582110	106B	Asbestos	10/04/2023
1582111	106C	Asbestos	10/04/2023
1582112	107A	Asbestos	10/04/2023
1582113	107B	Asbestos	10/04/2023
1582114	107C	Asbestos	10/04/2023
1582115	108A	Asbestos	10/04/2023
1582116	108B	Asbestos	10/04/2023
1582117	108C	Asbestos	10/04/2023
1582118	109A	Asbestos	10/04/2023
1582119	109B	Asbestos	10/04/2023
1582120	109C	Asbestos	10/04/2023
1582121	110A	Asbestos	10/04/2023
1582122	110B	Asbestos	10/04/2023
1582123	110C	Asbestos	10/04/2023
1582124	111A	Asbestos	10/04/2023
1582125	111B	Asbestos	10/04/2023
1582126	111C	Asbestos	10/04/2023
1582127	112A	Asbestos	10/04/2023
1582128	112B	Asbestos	10/04/2023
1582129	112C	Asbestos	10/04/2023
1582130	113A	Asbestos	10/04/2023
1582131	113B	Asbestos	10/04/2023
1582132	113C	Asbestos	10/04/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1582133	114A	Asbestos	10/04/2023
1582134	114B	Asbestos	10/04/2023
1582135	114C	Asbestos	10/04/2023
1582136	115A	Asbestos	10/04/2023
1582137	115B	Asbestos	10/04/2023
1582138	115C	Asbestos	10/04/2023
1582139	116A	Asbestos	10/04/2023
1582140	116B	Asbestos	10/04/2023
1582141	116C	Asbestos	10/04/2023
1582142	117A	Asbestos	10/04/2023
1582143	117B	Asbestos	10/04/2023
1582144	117C	Asbestos	10/04/2023
1582145	118A	Asbestos	10/04/2023
1582146	118B	Asbestos	10/04/2023
1582147	118C	Asbestos	10/04/2023
1582148	119A	Asbestos	10/04/2023
1582149	119B	Asbestos	10/04/2023
1582150	119C	Asbestos	10/04/2023
1582151	120A	Asbestos	10/03/2023
1582152	120B	Asbestos	10/03/2023
1582153	120C	Asbestos	10/03/2023
1582154	121A	Asbestos	10/03/2023
1582155	121B	Asbestos	10/03/2023
1582156	121C	Asbestos	10/03/2023
1582157	122A	Asbestos	10/03/2023
1582158	122B	Asbestos	10/03/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1582159	122C	Asbestos	10/03/2023
1582160	123A	Asbestos	10/03/2023
1582161	123B	Asbestos	10/03/2023
1582162	123C	Asbestos	10/03/2023
1582163	124A	Asbestos	10/03/2023
1582164	124B	Asbestos	10/03/2023
1582165	124C	Asbestos	10/03/2023
1582166	125A	Asbestos	10/03/2023
1582167	125B	Asbestos	10/03/2023
1582168	125C	Asbestos	10/03/2023
1582169	126A	Asbestos	10/03/2023
1582170	126B	Asbestos	10/03/2023
1582171	126C	Asbestos	10/03/2023
1582172	127A	Asbestos	10/03/2023
1582173	127B	Asbestos	10/03/2023
1582174	127C	Asbestos	10/03/2023
1582175	128A	Asbestos	10/03/2023
1582176	128B	Asbestos	10/03/2023
1582177	128C	Asbestos	10/03/2023
1582178	129A	Asbestos	10/03/2023
1582179	129B	Asbestos	10/03/2023
1582180	129C	Asbestos	10/03/2023
1582181	130A	Asbestos	10/03/2023
1582182	130B	Asbestos	10/04/2023
1582183	130C	Asbestos	10/04/2023
1582184	131A	Asbestos	10/03/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1582185	131B	Asbestos	10/03/2023
1582186	131C	Asbestos	10/03/2023
1582187	132A	Asbestos	10/03/2023
1582188	132B	Asbestos	10/03/2023
1582189	132C	Asbestos	10/03/2023
1582190	133A	Asbestos	10/03/2023
1582191	133B	Asbestos	10/03/2023
1582192	133C	Asbestos	10/03/2023
1582193	134A	Asbestos	10/03/2023
1582194	134B	Asbestos	10/03/2023
1582195	134C	Asbestos	10/03/2023
1582196	135A	Asbestos	10/04/2023
1582197	135B	Asbestos	10/04/2023
1582198	135C	Asbestos	10/04/2023
1582199	136A	Asbestos	10/04/2023
1582200	136B	Asbestos	10/04/2023
1582201	136C	Asbestos	10/04/2023
1582202	137A	Asbestos	10/04/2023
1582203	137B	Asbestos	10/13/2023
1582204	137C	Asbestos	10/13/2023
1582205	138A	Asbestos	10/04/2023
1582206	138B	Asbestos	10/04/2023
1582207	138C	Asbestos	10/04/2023
1582208	139A	Asbestos	10/04/2023
1582209	139B	Asbestos	10/04/2023
1582210	139C	Asbestos	10/04/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1582211	140A	Asbestos	10/03/2023
1582212	140B	Asbestos	10/03/2023
1582213	140C	Asbestos	10/03/2023
1582214	141A	Asbestos	10/03/2023
1582215	141B	Asbestos	10/03/2023
1582216	141C	Asbestos	10/03/2023
1582217	142A	Asbestos	10/03/2023
1582218	142B	Asbestos	10/03/2023
1582219	142C	Asbestos	10/03/2023
1582220	143A	Asbestos	10/03/2023
1582221	143B	Asbestos	10/03/2023
1582222	143C	Asbestos	10/03/2023
1582223	144A	Asbestos	10/03/2023
1582224	144B	Asbestos	10/03/2023
1582225	144C	Asbestos	10/03/2023
1582226	145A	Asbestos	10/03/2023
1582227	145B	Asbestos	10/03/2023
1582228	145C	Asbestos	10/03/2023
1582229	146A	Asbestos	10/03/2023
1582230	146B	Asbestos	10/03/2023
1582231	146C	Asbestos	10/03/2023
1582232	147A	Asbestos	10/03/2023
1582233	147B	Asbestos	10/03/2023
1582234	147C	Asbestos	10/03/2023
1585743	148A	Asbestos	10/13/2023
1585744	148B	Asbestos	10/13/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1585745	148C	Asbestos	10/13/2023
1588736	149A	Asbestos	10/24/2023
1588737	149B	Asbestos	10/24/2023
1588738	149C	Asbestos	10/24/2023
1588739	150A	Asbestos	10/24/2023
1588740	150B	Asbestos	10/24/2023
1588741	150C	Asbestos	10/24/2023
1588742	151A	Asbestos	10/24/2023
1588743	151B	Asbestos	10/24/2023
1588744	151C	Asbestos	10/24/2023
1588745	152A	Asbestos	10/24/2023
1588746	152B	Asbestos	10/24/2023
1588747	152C	Asbestos	10/24/2023
1588748	153A	Asbestos	10/24/2023
1588749	153B	Asbestos	10/24/2023
1588750	153C	Asbestos	10/24/2023
1588751	154A	Asbestos	10/24/2023
1588752	154B	Asbestos	10/24/2023
1588753	154C	Asbestos	10/24/2023
1588754	155A	Asbestos	10/24/2023
1588755	155B	Asbestos	10/24/2023
1588756	155C	Asbestos	10/24/2023
1588757	156A	Asbestos	10/24/2023
1588758	156B	Asbestos	10/24/2023
1588759	156C	Asbestos	10/24/2023
1588760	157A	Asbestos	10/24/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1588761	157B	Asbestos	10/24/2023
1588762	157C	Asbestos	10/24/2023
1588763	158A	Asbestos	10/24/2023
1588764	158B	Asbestos	10/24/2023
1588765	158C	Asbestos	10/24/2023

Reviewed by: 
 Jessica Dilworth

Summary

Method	Sample	Layer	Mastic
PLM	184		1
Point Count	6		

Revision History

Revised Date	Revised By	Revision Comment
10/24/2023	Alex Noble	Updating Incorr. Sample Descriptions
10/24/2023	Emily Spotts	Added On Samples: 1588736-765
10/13/2023	Jessica Dilworth	Added detail to material descriptions
10/13/2023	Jessica Dilworth	Revised clerical error on 148A point count
10/13/2023	Jessica Dilworth	Added sample set 148. Samples 137 B & C submitted and analyzed.
10/13/2023	Chris Canilao	Added Samples 137;148

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Certificate of Analysis

Environmental Testing Laboratories, Inc.
 37575 W Huron River Drive
 Romulus, Michigan 48174
 (734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261388
 Client Project : 261388
 Date Collected : 09/26/2023
 Date Received : 09/29/2023

Location : 42975 Savage Rd, Belleville, MI 48111
 Savage Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582091 100A Music Room Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/03/2023 Insufficient Material to Point Count	Sink Undercoating	Pink Non-Fibrous Homogenous		PLM 98% Other	PLM 2% Chrysotile
1582092 100B Main Office Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/03/2023 Insufficient Material to Point Count	Sink Undercoating	Pink Non-Fibrous Homogenous		PLM 98% Other	PLM 2% Chrysotile
1582093 100C Media Center Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/03/2023 Insufficient Material to Point Count	Sink Undercoating	Pink Non-Fibrous Homogenous		PLM 98% Other	PLM 2% Chrysotile
1582094 101A Mechanical Room over Custodian Closet (11-16) Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/03/2023	Duct Expansion Cloth	Black Non-Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
1582095 101B Mechanical Room over Custodian Closet (11-16) Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/03/2023	Duct Expansion Cloth	Black Non-Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
1582096 101C Mechanical Room over Custodian Closet (31-36) Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/03/2023	Duct Expansion Cloth	Black Non-Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582097 102A Room 13 Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/03/2023	Window Glaze	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582098 102B Kindergarten Room 1 Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/03/2023	Window Glaze	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582099 102C Kindergarten Room 2 Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/03/2023	Window Glaze	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582100 103A Room 11 Conference Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/03/2023	Cove Base Caulk	Clear Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582101 103B Room 11 Conference Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Cove Base Caulk	Clear Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582102 103C Room 11 Conference Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Cove Base Caulk	Clear Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582103 104A PE Storage Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Fire Stop	Red Non-Fibrous Homogenous	PLM 20% Fiberglass	PLM 80% Other	PLM None Detected
1582104 104B PE Storage Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Fire Stop	Red Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582105 104C Receiving Room Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Fire Stop	Red Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582106 105A Gym Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Door/Wall Caulk	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582107 105B Gym Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Door/Wall Caulk	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582108 105C Gym Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Door/Wall Caulk	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582109 106A Kindergarten Room 1 Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Window/Door Caulk	Dark Brown Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582110 106B Kindergarten Room 2 Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Window/Door Caulk	Dark Brown Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582111 106C Room 11 Conference Room Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Window/Door Caulk	Dark Brown Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582112 107A Room 11 Conference Room Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Door Caulk	Tan Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582113 107B Room 11 Conference Room Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Door Caulk	Tan Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582114 107C Room 11 Conference Room Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Door Caulk	Tan Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582115 108A Multi-Use Room Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Cove Base	Black Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582116 108B Multi-Use Room Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Cove Base	Black Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582117 108C Multi-Use Room Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Cove Base	Black Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582118 109A Multi-Use Room Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Mastic	Tan/Brown Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582119 109B Multi-Use Room Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Mastic	Tan/Brown Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1582120 109C Multi-Use Room Layer-1 Analyst: Lili Calderon-Moscrip Date Analyzed : 10/04/2023	Mastic	Tan/Brown Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582121 110A Stage Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Stage Curtain	Blue Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected
1582122 110B Stage Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Stage Curtain	Blue Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected
1582123 110C Stage Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Stage Curtain	Blue Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected
1582124 111A Coat Room Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Sink Undercoating	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
1582125 111B Coat Room Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Sink Undercoating	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
1582126 111C Kindergarten Room 2 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Sink Undercoating	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582127 112A Room 12 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Ceiling Tile	White Non-Fibrous Homogenous	PLM 50% Cellulose PLM Trace Fiberglass	PLM 50% Other	PLM None Detected
1582128 112B Room 23 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Ceiling Tile	White Non-Fibrous Homogenous	PLM 50% Cellulose PLM Trace Fiberglass	PLM 50% Other	PLM None Detected
1582129 112C Room 14 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Ceiling Tile	White Non-Fibrous Homogenous	PLM 50% Cellulose PLM Trace Fiberglass	PLM 50% Other	PLM None Detected
1582130 113A Hallway 31-36 to Main Office Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Wall/Door Caulk	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582131 113B Mechanical Room off Kitchen Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Wall/Door Caulk	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582132 113C Mechanical Room off Custodian Closet 11-16 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Wall/Door Caulk	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582133 114A Mechanical Room off Custodian Closet 31-36 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Pipe Joint Insulation	Gray/ White Non-Fibrous Homogenous	PLM 10% Cellulose PLM Trace Fiberglass PLM Trace Mineral wool	PLM 90% Other	PLM None Detected
1582134 114B Mechanical Room off Kitchen Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Pipe Joint Insulation	Gray/ White Non-Fibrous Homogenous	PLM 10% Cellulose PLM Trace Fiberglass PLM Trace Mineral wool	PLM 90% Other	PLM None Detected
1582135 114C Mechanical Room off Custodian Closet 11-16 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Pipe Joint Insulation	Gray/ White Non-Fibrous Homogenous	PLM 10% Cellulose PLM Trace Fiberglass PLM Trace Mineral wool	PLM 90% Other	PLM None Detected
1582136 115A Room 13 Bathroom Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Sink/ Urnial Caulk	White/ Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582137 115B Girls Bathroom 31-36 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Sink/ Urnial Caulk	White/ Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582138 115C Boys Bathroom 31-36 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Sink/ Urnial Caulk	White/ Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582139 116A Room 12 Bathroom Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Sink Caulk	Clear Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582140 116B Room 11 Bathroom Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Sink Caulk	Clear Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582141 116C Boys Bathroom 31-36 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Sink Caulk	Clear Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582142 117A Kindergarten Room 1 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Sink Undercoating	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 97% Other	PLM 3% Chrysotile
1582143 117B Room 11 Bathroom Analyst: Emily Spotts Date Analyzed : 10/04/2023 Sample Not Analyzed		Positive Stop			
1582144 117C Room 16 Analyst: Emily Spotts Date Analyzed : 10/04/2023 Sample Not Analyzed		Positive Stop			

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1582145 118A Hall/Foyer to Door 8 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Floor Tile 12x12	Yellow Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582146 118B Hall/Foyer to Door 15 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Floor Tile 12x12	Yellow Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582147 118C Hall/Foyer to Door 15 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Floor Tile 12x12	Yellow Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582148 119A Hall/Foyer to Door 8 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Mastic	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 97% Other	PLM 3% Chrysotile
1582148 119A Hall/Foyer to Door 8 Layer-2 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Mastic	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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Certificate of Analysis

Environmental Testing Laboratories, Inc.
 37575 W Huron River Drive
 Romulus, Michigan 48174
 (734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261388
 Client Project : 261388
 Date Collected : 09/26/2023
 Date Received : 09/29/2023

Location : 42975 Savage Rd, Belleville, MI 48111
 Savage Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582149 119B Hall/Foyer to Door 15 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023 Layer Not Analyzed		Positive Stop			
1582149 119B Hall/Foyer to Door 15 Layer-2 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Mastic	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582150 119C Hall/Foyer to Door 15 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/04/2023 Layer Not Analyzed		Positive Stop			
1582150 119C Hall/Foyer to Door 15 Layer-2 Analyst: Emily Spotts Date Analyzed : 10/04/2023	Mastic	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582151 120A Gym Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Cove Base	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582152 120B Gym Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Cove Base	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582153 120C Gym Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Cove Base	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582154 121A Gym Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Mastic	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1582155 121B Gym Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Mastic	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1582156 121C Gym Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Mastic	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1582157 122A Kindergarten Room 1 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Cove Base	Blue Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582158 122B Room 15 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Cove Base	Blue Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582159 122C Room 23 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Cove Base	Blue Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582160 123A Corridor 28 Boys Bathroom Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Mastic	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1582161 123B Custodian Closet 11-16 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Mastic	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1582162 123C Girls Bathroom 31-36 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Mastic	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1582163 124A Foyer by Door 15 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Mastic	Brown Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1582164 124B Foyer by Door 8 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Mastic	Brown Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582165 124C Lounge Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Mastic	Brown Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1582166 125A Kindergarten Room 2 Storage Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Cove Base	Brown Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 98% Other	PLM None Detected
1582167 125B Kindergarten Room 1 Storage Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Cove Base	Brown Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582168 125C Custodian Closet 31-36 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Cove Base	Brown Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582169 126A Kindergarten Room 2 Storage Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Mastic	Brown Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1582170 126B Kindergarten Room 1 Storage Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Mastic	Brown Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582171 126C Custodian Closet 31-36 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Mastic	Brown Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1582172 127A Mechanical Room Kindergarten Corridor Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Pipe Joint Insulation	White Fibrous Homogenous	PLM Trace Cellulose PLM 60% Mineral wool	PLM 40% Other	PLM None Detected
1582173 127B Mechanical Room Above Custodian Closet 11-16 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Pipe Joint Insulation	White Fibrous Homogenous	PLM Trace Cellulose PLM 60% Mineral wool	PLM 40% Other	PLM None Detected
1582174 127C Mechanical Room Above Custodian Closet 31-36 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Pipe Joint Insulation	White Fibrous Homogenous	PLM Trace Cellulose PLM 60% Mineral wool	PLM 40% Other	PLM None Detected
1582175 128A Mechanical Room Kindergarten Corridor Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Duct Tape	Grey/Silver Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582176 128B Mechanical Room Above Custodian Closet 11-16 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Duct Tape	Grey/Silver Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582177 128C Mechanical Room Above Custodian Closet 31-36 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Duct Tape	Grey/Silver Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582178 129A Room 14 Above Ceiling Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Pipe Insulation	Tan/Grey Fibrous Homogenous	PLM Trace Cellulose PLM 60% Fiberglass	PLM 40% Other	PLM None Detected
1582179 129B Room 23 Above Ceiling Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Pipe Insulation	Tan/Grey Fibrous Homogenous	PLM Trace Cellulose PLM 60% Fiberglass	PLM 40% Other	PLM None Detected
1582180 129C Mechanical Room Above Custodian Closet 31-36 Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 10/03/2023	Pipe Insulation	Tan/Grey Fibrous Homogenous	PLM Trace Cellulose PLM 60% Fiberglass	PLM 40% Other	PLM None Detected
1582181 130A Custodian Closet Kindergarten Corridor Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Floor Tile 12"x12"	Tan Non-Fibrous Homogenous		PC 100% Other	PC Trace Chrysotile
1582182 130B Media Center Storage Layer-1 Analyst: Chris Canilao Date Analyzed : 10/04/2023	Floor Tile 12"x12"	Tan Non-Fibrous Homogenous		PC 100% Other	PC Trace Chrysotile

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582183 130C Project Room (11-16) Layer-1 Analyst: Chris Canilao Date Analyzed : 10/04/2023	Floor Tile 12"x12"	Tan Non-Fibrous Homogenous		PC 100% Other	PC None Detected
1582184 131A Custodian Closet Kindergarten Corridor Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Mastic	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 95% Other	PLM 3% Chrysotile
1582185 131B Media Center Storage Analyst: Chris Canilao Date Analyzed : 10/03/2023		Positive Stop			
1582186 131C Project Room (11-16) Analyst: Chris Canilao Date Analyzed : 10/03/2023		Positive Stop			
1582187 132A Storage Room Across From Main Office Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Carpet Mastic	Tan Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
1582188 132B Kindergarten Room 1 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Carpet Mastic	Tan Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582189 132C Kindergarten Room 2 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Carpet Mastic	Tan Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
1582190 133A Mechanical Room Kindergarten Corridor Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Fan/Duct Insulation	Gray Fibrous Homogenous	PLM Trace Cellulose PLM 98% Fiberglass	PLM 2% Other	PLM None Detected
1582191 133B Mechanical Room Above Custodian Closet 11-16 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Fan/Duct Insulation	Gray Fibrous Homogenous	PLM Trace Cellulose PLM 98% Fiberglass	PLM 2% Other	PLM None Detected
1582192 133C Mechanical Room Above Custodian Closet 31-36 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Fan/Duct Insulation	Gray Fibrous Homogenous	PLM Trace Cellulose PLM 98% Fiberglass	PLM 2% Other	PLM None Detected
1582193 134A Kindergarten Room 1 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/03/2023	Wall/Window Caulk	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 92% Other	PLM 5% Chrysotile
1582194 134B Kindergarten Room 2 Analyst: Chris Canilao Date Analyzed : 10/03/2023 Sample Not Analyzed		Positive Stop			

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1582195 134C Kindergarten Corridor Analyst: Chris Canilao Date Analyzed : 10/03/2023 Sample Not Analyzed		Positive Stop			
1582196 135A Coat Room Layer-1 Analyst: Chris Canilao Date Analyzed : 10/04/2023	Sink Caulk	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582197 135B Coat Room Layer-1 Analyst: Chris Canilao Date Analyzed : 10/04/2023	Sink Caulk	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582198 135C Coat Room Layer-1 Analyst: Chris Canilao Date Analyzed : 10/04/2023	Sink Caulk	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582199 136A Room 33 Analyst: Chris Canilao Date Analyzed : 10/04/2023 Sample Not Analyzed		Sample Missing			
1582200 136B Room 34 Analyst: Chris Canilao Date Analyzed : 10/04/2023 Sample Not Analyzed		Sample Missing			

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1582201 136C Room 35 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/04/2023 Clear Glaze	Window Glaze	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1582202 137A Room 14 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/04/2023	Drywall	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582203 137B Room 12 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/13/2023	Drywall	White Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
1582204 137C Room 11 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/13/2023	Drywall	White Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
1582205 138A Entrance 28 Vertical Above Entrance Layer-1 Analyst: Chris Canilao Date Analyzed : 10/04/2023	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582206 138B Doors 18 & 19 Vertical by Overhang Layer-1 Analyst: Chris Canilao Date Analyzed : 10/04/2023	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261388
Client Project : 261388
Date Collected : 09/26/2023
Date Received : 09/29/2023

Location : 42975 Savage Rd, Belleville, MI 48111
 Savage Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582207 138C Doors 13-17 Overhang Vertical by Door 14 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/04/2023	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582208 139A Windows by Door 18 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/04/2023	Exterior Window Glaze	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582209 139B Windows Between Doors 23 & 24 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/04/2023	Exterior Window Glaze	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582210 139C Windows by Door 11 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/04/2023	Exterior Window Glaze	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1582211 140A Around Windows by Door 14 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Clear Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582212 140B Around Windows by Door 16 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Clear Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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 Savage Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582213 140C Around Electrical Connection Near Door 35 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Clear Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582214 141A Windows by Door 19 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Window Glaze	Off White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 95% Other	PLM 3% Chrysotile
1582215 141B Windows by Door 5 Analyst: Emily Spotts Date Analyzed : 10/03/2023 Sample Not Analyzed		Positive Stop			
1582216 141C Windows Left of Door 1 Analyst: Emily Spotts Date Analyzed : 10/03/2023 Sample Not Analyzed		Positive Stop			
1582217 142A Around Window Unit Windows Between Doors 23 & 24 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Dark Gray Non-Fibrous Homogenous	PC 0.5% Cellulose	PC 99.25% Other	PC 0.25% Chrysotile
1582218 142B Above Receiving Door Overhang Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Dark Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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Location : 42975 Savage Rd, Belleville, MI 48111
 Savage Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582219 142C Around Windows by Door 20 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Dark Gray Non-Fibrous Homogenous	PLM Trace Cellulose PLM Trace Fiberglass	PLM 100% Other	PLM None Detected
1582220 143A Entrance 28 Between Sidewalk & Building Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582221 143B Door 24 Between Sidewalk & Building Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582222 143C Entrance 25 Between Sidewalk & Building Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582223 144A Around Door 26 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Door Caulk	Dark Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582224 144B Around Door 24 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Door Caulk	Dark Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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 Savage Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582225 144C Around Door 21 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Door Caulk	Dark Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582226 145A Entrance 28 Around Fascia Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582227 145B Entrance 25 Around Fascia Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582228 145C Door 24 Fascia Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582229 146A Entrance 28 Around Fascia Trim Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582230 146B Door 24 Fascia Trim Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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 Savage Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1582231 146C Entrance 25 Around Fascia Trim Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Caulk	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582232 147A Door 22 Around Doors Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Door Caulk	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582233 147B Door 28 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Door Caulk	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1582234 147C Door 25 Around Door Layer-1 Analyst: Emily Spotts Date Analyzed : 10/03/2023	Exterior Door Caulk	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1585743 148A Kindergarten 1 Ext. Door 24 Layer-1 Analyst: Jessica Dilworth Date Analyzed : 10/13/2023	Window Glaze	White Non-Fibrous Homogenous	PC 2% Cellulose	PC 97.5% Other	PC 0.5% Chrysotile
1585744 148B Room 32 Interior Door Layer-1 Analyst: Jessica Dilworth Date Analyzed : 10/13/2023	Window Glaze	White Non-Fibrous Homogenous		PC 99.5% Other	PC 0.5% Chrysotile

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Client Project : 261388
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Date Received : 10/13/2023

Location : 42975 Savage Rd, Belleville, MI 48111
 Savage Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1585745 148C Room 34 Exterior Door 4 Layer-1 Analyst: Chris Canilao Date Analyzed : 10/13/2023	Window Glaze	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1588736 149A Fan Room Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Foam Pipe Insulation	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588737 149B Fan Room Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Foam Pipe Insulation	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588738 149C Fan Room Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Foam Pipe Insulation	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588739 150A Roof-Exterior Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Roofing Material	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588739 150A Roof-Exterior Layer-2 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Adhesive	Yellow Non-Fibrous Homogenous	PLM Trace Cellulose PLM Trace Fiberglass	PLM 100% Other	PLM None Detected

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Location : 42975 Savage Rd, Belleville, MI 48111
 Savage Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588740 150B Roof-Exterior Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Roofing Material	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588740 150B Roof-Exterior Layer-2 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Adhesive	Yellow Non-Fibrous Homogenous	PLM Trace Cellulose PLM Trace Fiberglass	PLM 100% Other	PLM None Detected
1588741 150C Roof-Exterior Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Roofing Material	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588741 150C Roof-Exterior Layer-2 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Adhesive	Yellow Non-Fibrous Homogenous	PLM 5% Cellulose PLM Trace Fiberglass	PLM 95% Other	PLM None Detected
1588742 151A Roof-Exterior Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Roof Flashing	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588742 151A Roof-Exterior Layer-2 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Adhesive	Yellow Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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Certificate of Analysis

Environmental Testing Laboratories, Inc.
 37575 W Huron River Drive
 Romulus, Michigan 48174
 (734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

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 Savage Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588743 151B Roof-Exterior Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Roof Flashing	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588743 151B Roof-Exterior Layer-2 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Adhesive	Yellow Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588744 151C Roof-Exterior Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Roof Flashing	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588744 151C Roof-Exterior Layer-2 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Adhesive	Yellow Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588745 152A Exterior Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Brick	Red Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588745 152A Exterior Layer-2 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Mortar	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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Location : 42975 Savage Rd, Belleville, MI 48111
 Savage Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588746 152B Exterior Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Brick	Red Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588746 152B Exterior Layer-2 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Mortar	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588747 152C Exterior Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Brick	Red Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588747 152C Exterior Layer-2 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Mortar	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588748 153A Media Center Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Stair Tread	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588749 153B Media Center Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Stair Tread	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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 Savage Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588750 153C Media Center Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Stair Tread	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588751 154A Media Center Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Stair Tread Mastic	Brown Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588752 154B Media Center Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Stair Tread Mastic	Brown Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588753 154C Media Center Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Stair Tread Mastic	Brown Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588754 155A Girls Bathroom (Baseboard) Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Ceramic Tile	Yellow Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588754 155A Girls Bathroom (Baseboard) Layer-2 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Grout	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 261388
Client Project : 261388
Date Collected : 10/23/2023
Date Received : 10/24/2023

Location : 42975 Savage Rd, Belleville, MI 48111
 Savage Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588755 155B Unisex Bathroom (Baseboard) Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Ceramic Tile	Yellow Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588755 155B Unisex Bathroom (Baseboard) Layer-2 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Grout	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588756 155C Boys Bathroom (Baseboard) Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Ceramic Tile	Blue Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588756 155C Boys Bathroom (Baseboard) Layer-2 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Grout	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588757 156A Kindergarten Room 2 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Chalkboard Backing	White Fibrous Non-Homogenous	PLM 10% Cellulose	PLM 90% Other	PLM None Detected
1588758 156B Kindergarten Room 2 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Chalkboard Backing	White Fibrous Non-Homogenous	PLM 10% Cellulose	PLM 90% Other	PLM None Detected

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Certificate of Analysis

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 (734) 955-6600, Fax: (734) 955-6604

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Location : 42975 Savage Rd, Belleville, MI 48111
 Savage Elementary

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588759 156C Room 21 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Chalkboard Backing	White Fibrous Non-Homogenous	PLM 10% Cellulose	PLM 90% Other	PLM None Detected
1588760 157A Room 21 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Glue Pod	Brown Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588761 157B Room 21 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Glue Pod	Brown Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588762 157C Room 21 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Glue Pod	Brown Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588763 158A Room 25 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Ceramic Tile	Green Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588763 158A Room 25 Layer-2 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Grout	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588763 158A Room 25 Layer-3 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Mortar	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588764 158B Room 13 Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023 Layer Not Analyzed		Layer Missing			
1588764 158B Room 13 Layer-2 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Grout	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588764 158B Room 13 Layer-3 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Mortar	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1588765 158C Room 2- Kindergarten Layer-1 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Ceramic Tile	Green Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588765 158C Room 2- Kindergarten Layer-2 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Grout	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1588765 158C Room 2- Kindergarten Layer-3 Analyst: Emily Spotts Date Analyzed : 10/24/2023	Mortar	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
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Lab Supervisor/Other Signatory

Analyst:

Chris Canilao

Lili Calderon-Moscrip

Shelby Fogelsong

Emily Spotts

Jessica Dilworth

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")
Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples
Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples
EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials
EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples
A % Asbestos result of "Trace" indicates that the analyzed material was found to contain less than 1% asbestos and would not be considered an Asbestos Containing Material (ACM).

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Appendix C

Glossary

ABATEMENT - any process that results in a significant decrease in the level of asbestos hazards in an occupied space or building. However, in recent years, "Asbestos Abatement" has virtually become synonymous with "Asbestos Removal".

ABIH - American Board of Industrial Hygiene

ACBM - an abbreviation for "asbestos-containing building materials"; a term encompassing surfacing ACM in or on interior parts of an occupied space or building.

ACBM WITH POTENTIAL FOR DAMAGE - circumstances in which: (1) Friable ACM is in an area regularly used by building occupants, including maintenance personnel, in the course of their normal activities. (2) There are indications that there is reasonable likelihood that the material or its covering will become damaged, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage.

ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE - circumstances in which: (1) Friable ACBM is in an area regularly used by building occupants, including maintenance personnel, in the course of their normal activities. (2) there are indications that there is reasonable likelihood that the material or its covering will become significantly damaged, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage. (3) The material is subject to major or continuing disturbance due to factors including, but not limited to, accessibility or, under certain circumstances, vibration or air erosion.

ACCREDITED PERSONNEL - properly trained and registered personnel who conduct certain activities, e.g., inspections, Management Plans, sample analysis, large scale abatement projects, etc.

ACM - asbestos-containing material. Any material or product which contains more than 1 percent asbestos by weight.

ACOUSTICAL INSULATION - The general application or use of asbestos for the control of sound due to its lack of reverberant surfaces.

ACOUSTICAL TILE - A finishing material in a building usually found in the ceiling or walls for the purpose of noise control.

ACTION LEVEL - an airborne concentration of asbestos of 0.1 fibers per cubic centimeter (f/cc) of air calculated over an eight (8) hour time weighted average.

ADEQUATELY WETTED - sufficiently mixed or coated with water or an aqueous solution to prevent dust emissions.

AFD - air filtration device. HEPA filter equipped machines that filter air in an enclosure and other designated locations.

AGGRESSIVE SAMPLING - after a thorough visual inspection, and prior to air monitoring, all floors, ceilings, and walls shall be blown with a (1 1/20 horsepower leaf blower. These aggressive sampling techniques shall be conducted while the pumps are running.

AHERA - Asbestos Hazard Emergency Response Act. EPA regulation requiring all LEAs to identify asbestos-containing materials in their schools and take appropriate actions to control release of asbestos fibers.

AIA - Asbestos Information Association

AIA - American Institute of Architects

AIA - American Insurance Association

AIHA - American Industrial Hygiene Association

AIHA ACCREDITED LABORATORY - a certification given by the AIHA to an analytical laboratory that has successfully participated in the "Proficiency Analytical Testing" program for quality control as established by the National Institute for Occupational Safety and Health.

AIR DIFFUSER - a device designed to disperse an air stream throughout a given system.

AIR HANDLING SYSTEMS - all those systems within a building, such as heating and air conditioning systems, that move or pass air.

AIR MAN - an industrial hygienist or other qualified individual who collects air samples and monitors the asbestos abatement worksite.

AIR MONITORING - the process of collecting and analyzing samples of air, to determine the amount of asbestos present. The unit of measure will be fibers per cubic centimeter of air (f/cc).

AIR PLENUM - a structural space, most frequently above drop ceilings, that collects or passes air for building ventilation purposes.

AIR SAMPLES - representative studies taken to evaluate the air quality of a building.

AIR TESTING - the general process of collecting samples of air in a building and analyzing them for asbestos content.

AIRBORNE - unsettled fibers in the air.

AIRLESS WATER SPRAYER - device used to spray water on asbestos-containing materials that is not pressurized by air, therefore not causing disturbance to the material.

AIRLOCK - partitioned chambers constructed to provide contamination-free access to the sealed work area. There are normally two airlocks at an asbestos removal site: 1. the main entrance airlock, sometimes called the a "decontamination chamber", and 2. the debris airlock, often called the "debris port," used for passing asbestos waste out of the work area.

ALGORITHM - a universally accepted procedure developed for the purpose of solving a particular problem. Algorithms developed for asbestos provide a numerical index for evaluating a degree of hazard in a particular area. The Sawyer Algorithm and the Ferris Index are two, but neither are widely used today.

ALVEOLAR MACROPHAGES - highly specialized mobile cells in the lungs that attempt to engulf and digest such lung hazards as dust or fumes.

ALVEOLI - located in clusters around the respiratory bronchioles of the lungs, this is the area in which true respiration takes place.

AMBIENT AIR - the surrounding air or atmosphere in a given area under normal conditions.

AMENDED WATER - water to which a surfactant has been added.

AMOSITE - a type of asbestos mineral frequently used as a plaster-like insulation material on pipes and boilers.

AMPHIBOLE - one of the two major groups of minerals from which the Asbestiform minerals are derived, distinguished by their chain-like crystal structure and chemical composition.

ANSI - American National Standards Institute

APPROVED LANDFILL - a site for the disposal of asbestos-containing and other hazardous wastes that has been given EPA approval.

ASBESTIFORM MINERALS - minerals which, due to their crystal structures and chemical composition, tend to be separated into fibers and can be classified as a form of asbestos.

ASBESTOS - a generic name given to a number of naturally occurring hydrated mineral silicates that possess a unique crystalline structure, are incombustible in air, and are separable into fibers that have great tensile strength. Asbestos includes the asbestiform varieties of chrysotile, crocidolite, amosite, anthophyllite, actinolite and tremolite, and any of these minerals that have been chemically treated and/or altered.

ASBESTOS ABATEMENT - methods used to control or contain asbestos-containing materials. These methods are removal, encapsulation and encasement.

ASBESTOS CONTROL - minimizing the generation of airborne asbestos fibers until a permanent solution is developed.

ASBESTOS EXPOSURE ASSESSMENT SYSTEM - a decision tool which can be used to determine the extent of the asbestos hazard that exists in a building, and which can also be used to develop corrective actions.

ASBESTOS FIBERS - fibers with their length being greater than five microns (length to width ratio of 3:1), generated from an asbestos-containing material.

ASBESTOS REMOVAL - the process of physically removing all asbestos-containing materials from a building.

ASBESTOS STANDARD - reference to the OSHA requirements in the general industry standards regarding asbestos exposure (29 CFR 1910.1001), and EPA National Emission Standard for Hazardous Air Pollutants (NESHAP) (40 CFR 61, subpart M).

ASBESTOSIS - a disease caused by inhaled asbestos fibers, involving scar-like growths on the surface of the lungs, destroying the organs ability to pass oxygen into the blood.

ASSUMED RATIO - the length of a fiber vs. its width.

ASSUMED ASBESTOS-CONTAINING MATERIAL - materials which an LEA has assumed to be ACMs. Bulk sample collection and analysis are not performed on these materials.

ATMOSPHERES IMMEDIATELY DANGEROUS TO LIFE OR HEALTH - a hazardous atmosphere to which exposure will result in serious injury or death in a matter of minutes, or cause serious delayed effects.

ATMOSPHERE SUPPLYING RESPIRATORS - respiratory protection devices which exclude workplace air altogether and provide clean air from some independent source.

BACKGROUND - air samples taken outside of the building. To establish normal fiber levels, and to be collected simultaneously with each sample set.

BASELINE - air samples taken before any abatement is started to locate airborne asbestos in the building. These are sometimes used to determine how well a contractor has cleaned the building, by comparing the sample with the post-abatement sample.

BID DOCUMENTS - those documents that lay out the technical details of a proposed asbestos removal project, such as plans, specifications and addenda. These are prepared by architects, engineers and/or consultants and industrial hygienists, and are followed by the contractors during the abatement work.

"BLUE BOOK" - EPA publication of March 1983 titled, "Guidance for Controlling Friable Asbestos-Containing Materials in Buildings." Now replaced by 1985 revised edition.

BOILERS - the large gas-, oil- or coal-fired water-boiling furnaces; the central feature of most large buildings' heating system.

BREECHING - a duct which transports combustion gases from a boiler or heater to a chimney or stack (also called a flue).

BRIDGING ENCAPSULANT - the application of a sealant over the surface of asbestos-containing materials to prevent the release of asbestos fibers.

BRONCHI - primary branches of the trachea (windpipe).

BRONCHOGENIC CANCER - an abnormal cell growth in the primary branches of the trachea (windpipe).

BUILDING CLEARANCE - the process by which a building's air is determined to be safe to breathe after an asbestos removal project has been completed. This is done by collecting air samples and analyzing, by either Polarized Light or Electron Microscopy, in order to comply with EPA guidelines.

BULK SAMPLES - samples of insulation, wall, ceiling, or other materials that might contain asbestos.

CANCER - a cellular tumor which normally leads to premature death of its host unless controlled.

CARBON MONOXIDE - a highly toxic colorless and odorless gas.

CASSETTES - plastic containers that hold wafer-like filters; used for collected air samples.

CAUTION/WARNING SIGNS - signs that must be posted at all approaches to regulated areas (small-scale, short-duration activity work areas or minor and major fiber release areas) so that all employees, personnel, and public may read the sign and take necessary protective steps before entering the area.

CEILING CONCENTRATION - the maximum allowable level of toxic material that can be present at any given point in time.

CEMENTITIOUS - asbestos-containing materials that are densely packed, granular and are friable.

CFM - cubic feet per minute

CHRYSOTILE - the only asbestiform mineral of the serpentine group which contains approximately 40% each of silica and magnesium oxide. It is the most common form of asbestos used in buildings.

CIH - an industrial hygienist who has been granted certification by the American Board of Industrial Hygiene.

CILIA - tiny hair-like structures in the windpipe and bronchi of the lung passages that help force undesirable particles and liquids up and out of the lungs.

CLAUSTROPHOBIA - the fear of being enclosed or narrow spaces.

CLEAN ROOM - the uncontaminated room, within the decontamination unit, having facilities for the storage of employees' street clothing and uncontaminated materials and equipment.

CLERK OF THE WORKS - a person who coordinates and oversees all activities on an asbestos abatement job site.

CLOSED CIRCUIT SCBA - a self-contained respiratory protection device in which the air is rebreathed after the exhaled carbon dioxide has been removed and the oxygen content restored.

COLUMNS - the building components which support the structural beams.

COMPETENT PERSON - person who has received specialized training capable of identifying existing asbestos hazards in the workplace and who has the authority to take prompt corrective measures to eliminate them as specified in the OSHA asbestos standard.

COMPRESSED OXYGEN CYLINDER TYPE CLOSED CIRCUIT SCBA - a self-contained respiratory protection device in which air is supplied from a compressed air cylinder. The exhaled air is filtered to remove carbon dioxide, and additional breathing air is provided.

CONCRETE-LIKE ASBESTOS - hard, non-friable asbestos containing material that requires a mechanical force to penetrate its surface.

CONTAINMENT - the overall principle use of barriers, seals, airlocks, and negative air filtration systems to control the amounts of airborne asbestos contamination released during an asbestos removal project.

CONTAMINATED ITEMS - any objects that have been exposed to airborne asbestos fibers without being sealed off or isolated.

CONTIGUOUS - air sample taken just outside of the enclosure to ensure that areas of the building beyond the work zone are not contaminated by airborne asbestos or asbestos containing dust released by any phase of the abatement work. A contiguous sample will be collected at each location that may be likely to have an air leak, including entrances to the work area. Samples will be collected daily.

CONTINUOUS FLOW AIRLINE DEVICE - a respirator that maintains a constant airflow to the wearer.

CONTRACT SPECIFICATIONS - a set of guidelines that a contractor must follow when conducting an asbestos abatement job.

COUNT - or "Fiber Count"; the number of asbestos fibers per cubic centimeter of air.

COVERALL - disposable body covering for use when disturbing asbestos-containing materials in any way.

COWNER'S REPRESENTATIVE - Consumer Product Safety Commission

CRITERIA DOCUMENT - NIOSH publications that address toxic materials, analytical methods, personal protective equipment, etc.

DAMAGED FRIABLE MISCELLANEOUS ACM - friable miscellaneous ACM which has deteriorated or sustained physical injury such that the cohesion (internal structure) of the material is inadequate or, if applicable, which has delaminated such that its adhesion (bond to the substrate) is inadequate, or which for any other reason lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars, or other signs or physical injury on the ACM. Asbestos debris originating from the ACM in questions may also indicate damage.

DAMAGED FRIABLE SURFACING ACM - ACM which has deteriorated or sustained adequate damage so that either cohesion of the material or adhesion to its substrate is inadequate; separation, delamination, flaking, and blistering are indications of damage - classification determined by judgement of inspector.

DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL SYSTEM INSULATION

ACM - thermal system insulation ACM on pipes, boilers, tanks, ducts, and other thermal system insulation equipment where the insulation has lost its structural integrity; its covering, in whole or in part; is crushed, waterstains, gouged, punctured, missing, or not intact such that it is not able to contain fibers. Damage may be further illustrated by occasional punctures, gouged, or other sign of physical injury to ACM; occasional water damage on the protective coverings/jackets; or exposed ACM ends or joints. Asbestos debris originating from the ACBM in question may also indicate damage.

DEBRIS - the remains of structural or mechanical building components that have been broken down or decayed; when sampled, the debris is typically old insulation and represents a very hazardous form of asbestos.

DECONTAMINATION UNIT - an enclosed area adjacent and connected to the regulated area and consisting of an equipment room, shower area and clean room; used for the decontamination of workers, materials and equipment contaminated with asbestos.

DEMAND AIRLINE DEVICE - a respirator in which air enters the facepiece only when the wearer breathes in.

DEMOLITION - the wrecking or lacking out of any load-supporting structural member of a building and any related razing, removing or stripping of asbestos.

DESIGNATED PERSON - person designated by the LEA to assure that the LEA's responsibilities as defined by the AHERA regulation are properly implemented.

DIRTY AREA - any area in which the concentration of airborne asbestos fibers exceeds 0.01 f/cc, or where there is visible asbestos residue.

DISPERSION STAINING - used in conjunction with polarized light to identify bulk samples. A particle (fiber) identification technique based on the difference between light dispersion of a particle (fiber) and a liquid medium in which it is immersed.

DISPOSAL BAG - properly labeled bag used only for asbestos waste.

DISTRICT - school district or Local Education Agency.

DOCUMENTATION FORMS - forms used for necessary and proper documentation of asbestos related activities needed in order to update the Management Plans.

DUCT MASK - single use or disposable dust respirator with a low protection factor.

DUCT TAPE - heavy gauge tape capable of sealing joints or adjacent sheets of polyethylene.

ELECTRON MICROSCOPY - a method of asbestos sample analysis which utilizes an electron beam to differentiate between fibers.

EMPLOYEE NOTIFICATION - informing employees or building occupants if asbestos is present in the building, also informing them of the hazards associated with asbestos exposure, what is being done to eliminate the problem, etc.

EMPLOYER'S LIABILITY - legal responsibility imposed on an employer requiring him/her to pay damages to an injured employee.

ENCAPSULANT - the procedure of covering asbestos materials with a sealant to stop the release of fibers.

ENCASING - an abatement method by which an asbestos material is encased (totally enclosed) using some type of structure that seals the asbestos material in an airtight barrier.

ENCLOSURE - the system involved in covering and sealing ACMs with another layer of impermeable barrier; once the material has been sealed, a program of inspection and maintenance must be established by the Owner to ensure that the enclosure barriers have been breached, or that the underlying asbestos is not contaminating the air.

ENGINEERING CONTROLS - proper equipment and procedures used to control an asbestos related activity.

EPA - Environmental Protection Agency.

EPA REGULATIONS - regulatory standards which cover emissions into the outside environment from a workplace and disposal of hazardous wastes from job sites.

EPIDEMIOLOGY - the study of occurrence and distribution of disease throughout a population.

EQUIPMENT ROOM - the last stage or room of the worker decontamination system before entering the work area.

ESTABLISHING RESPONSIBILITY - an asbestos program manager is designated and is given the responsibility for directing and managing asbestos control program activities.

EXPOSURE - any contact between a human being and asbestos.

EXPOSURE MONITORING - air monitoring used to determine the concentrations of asbestos to which their employees may be exposed.

EYEPIECE - a component of a full facepiece respirator which is a gas-tight transparent window through which the wearer may see.

FACEPIECE - the portion of a respirator which covers the wearer's nose, mouth, and eyes in a full facepiece.

FALLOUT - the intermittent release of fibers which occurs as a result of weakened bonds in the material, or because of deterioration.

F/CC - abbreviation for "fibers per cubic centimeter," this is the standard measurement used to judge the level of asbestos contamination in the air and is most frequently recorded in the form 0.01 FCC or 0.01 F/CC.

FEV1 - the maximum volume of air that can be forced from an individual's fully inflated lungs in one second (Forced Expiratory Volume-one second).

FIBER CONTAINMENT - enclosing or sealing off an area having airborne asbestos fibers present so that the fibers will not migrate resulting in contamination of other areas.

FIBER CONTROL - minimizing the amount of airborne fiber generation through the application of amended water onto asbestos-containing material, or enclosure (isolation) of the material.

FIBER RELEASABILITY - the potential for generation of airborne fibers from an asbestos-containing source.

FIBER REYNOLDS NUMBER - refers to the diameter of a fiber.

FIBROSIS - a condition of the lungs caused by the inhalation of excessive amounts of fibrous dust marked by the presence of scar tissue.

FIBROUS - composed almost entirely of fibers.

FIBROUS AEROSOL MONITOR (FAM) - a portable survey instrument with the capability of providing instantaneous airborne fiber concentration readings.

FIELD BLANKS - field blanks are air samples taken to ensure that contamination of cassettes has not occurred. Each set of samples taken will include ten percent (10%) blanks or a minimum of two blanks.

FIREPROOFING - spray- or towel- applied resistant materials.

FRIABLE - the ability of a material to be crumbled, pulverized, or reduced to powder by hand pressure; for the purposes of this report, this refers to suspected ACBM.

FRIABLE ASBESTOS - any materials that contain more than 1% asbestos by weight and can be crumbled, pulverized, or reduced to powder by hand pressure.

FULL FACEPIECE RESPIRATOR - a respirator which covers the wearer's entire face from the hairline to below the chin.

FUNCTIONAL SPACE - specially distinct units within a building such as a room, a group of rooms, or a homogeneous area - this includes crawlspaces and areas above a drop ceiling.

FVC - Forced Vital Capacity. The measured quantity of air that be forcible exhaled from a person's lungs after full inhalation.

GLOVE BAG - plastic bag-like enclosure used to contain small amounts of pipe insulation for asbestos removal.

GLOVE-BOX (BAG) - a plastic bag-type enclosure placed around asbestos-containing pipe lagging so that it may be removed without generating airborne fibers into the atmosphere.

GRADE D AIR - breathing air which has between 19.5% - 23% oxygen, no more than 5 mg/m³ of condensed hydrocarbons, no more than 20 ppm of carbon monoxide, no pronounced odor, and a maximum of 1000 ppm carbon dioxide.

GROUND FAULT CIRCUIT INTERRUPTER - a circuit breaker that is sensitive to very low levels of current leakage from a fault in an electrical system.

HALF MASK - HIGH EFFICIENCY - a respirator which covers one-half of the wearer's face and is equipped with filters capable of screening out 99.97% of all particles larger than 0.3 microns.

HEAT CRAMPS - painful spasms of heavily used skeletal muscles such as hands, arms, legs, and abdomen which are sometimes accompanied by dilated pupils and weak pulse resulting from depletion of the salt content of the body.

HEAT EXHAUSTION - a condition resulting from dehydration and/or salt depletion, or lack of blood circulation which is usually accompanied by fatigue, nausea, headache, giddiness, clammy skin, and a pale appearance.

HEAT STRESS - a bodily disorder associated with exposure to excessive heat.

HEAT STROKE - the most severe of the heat stress disorders resulting from the loss of the body's ability to sweat which is characterized by hot dry skin, dizziness, nausea, severe headache, confusion, delirium, loss of consciousness, convulsion, and coma.

HEPA FILTER - an abbreviation for "High Efficiency Particulate Air," an extremely dense filtering system capable of trapping and retaining 99.97% of airborne particulate 0.3 microns or larger in size.

HOLDING AREA - the airlock between the shower room and the clean room in a worker decontamination system.

HOMOGENEOUS AREA - an area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color and texture.

HOSE MASKS - respirators that supply air from an uncontaminated source through a strong, large diameter hose to the facepiece that does not use compressed air or have any pressure regulating devices.

HVAC - Heating, Ventilation, and Air Conditioning systems found in many building.

INDUSTRIAL HYGIENIST - a person who, by virtue of special studies and training, has acquired competence in industrial hygiene. Such special studies and training must have been sufficient in all of the above cognate sciences to provide the abilities: (a) to recognize the environmental factors and stresses associated with work and work operations and to understand their effect on man and his well-being; (b) to evaluate, on the basis of experience and with the aid of quantitative measurement techniques, the magnitude of these stresses in terms of ability of impair man's health and well-being; and (c) to prescribe methods to eliminate, control or reduce such stresses when necessary to alleviate their effects.

INSPECTION REPORT - a report developed to locate and list all ACBMs within the LEAs buildings. This as well as other applicable information is included in the Management Plans.

JOISTS - the structural building component which the flooring or roof rests on.

LABELS - refers to warning labels that are attached immediately adjacent to any friable and non-friable ACBMs and suspected ACBMs assumed to be ACM located in routine maintenance areas (i.e.. boiler rooms).

LEA - Local Education Agency. The AHERA Regulation term for school district.

LOCAL EXHAUST VENTILATION - the mechanical removal of air contaminants from point of operation.

LOGBOOK - an official record of all activities which occurred during a removal.

LUNG CANCER - an uncontrolled growth of abnormal cells in the lung which normally results in the death of the host.

MAINTENANCE REQUEST/WORK ORDER FORMS - general forms that school districts use for requesting maintenance work throughout the district's buildings.

MAJOR FIBER RELEASE EPISODE - the falling or dislodging of more than 3 square or linear feet of friable asbestos-containing material.

MAKE-UP AIR - supplied or recirculated air to offset that which has already been exhausted from an area.

MANAGEMENT PLANS - this is a comprehensive asbestos program that all school districts must develop in accordance with AHERA Regulation. These plans are designed to monitor all asbestos activities in their buildings and each building must have these basic minimum requirement: inspection report, response actions, and Operations and Maintenance Program.

MCEF - Mixed Cellulose Ester Filter which is one of several different types of media used to collect asbestos air samples.

MECHANICAL FILTER RESPIRATOR - a respiratory protection device which offers protection against airborne particles including dusts, mists, metal fumes, and smokes.

MEDICAL EXAMINATIONS - an evaluation of a person's health status conducted by a medical doctor.

MEDICAL HISTORY - a record of a person's past health record, including all the hazardous materials that they have been exposed to and also any injuries or illness which might dictate their future health status.

MEDICAL SURVEILLANCE - a medical program for school district employees working in levels of asbestos at or above the action level for 30 or more days per year and/or who may wear negative pressure respirators.

MESOTHELIOMA - a relatively rare form of cancer which develops in the lining of the pleura or peritoneum with no known cure.

METHOD 7400 - NIOSH sampling and analytical method for fibers using phase-contrast microscopy. Replaces method P&CAM 239.

MICRON - one millionth of a meter.

MIL - used to determine thickness of polyethylene sheeting. Mil is a prefix meaning one thousandth.

MILLIMETER - one-thousandth of a meter.

MINERAL WOOL - a commonly used substitute for asbestos.

MINIENCLOSURE - a small enclosure (enclosed area) made with applicable structural devices and polyethylene in order to isolate an area for asbestos work (disturbance), such as small-scale, short-duration activities.

MINOR FIBER RELEASE EPISODE - the falling or dislodging of 3 square or linear feet or less of friable asbestos-containing material.

MIOSHA - Michigan Department of Occupational Safety and Health Administration.

MISCELLANEOUS MATERIAL - interior building material on structural components, structural members or fixtures, such as floor or ceiling tiles, this category does not include surfacing material or thermal system insulation.

MSDS - Material Safety Data Sheet

MSHA - Mine Safety and Health Administration

NEGATIVE AIR - term generally used to refer to the system of controlling airborne asbestos contamination at asbestos removal job sites.

NEGATIVE AIR FILTRATION UNIT - a portable exhaust system equipped with HEPA filtration and capable of maintaining a constant low velocity air flow into contaminated areas from adjacent uncontaminated areas.

NEGATIVE AIR PRESSURE - lower air pressure created inside sealed spaces where negative air filtration units are operating. This lower pressure, caused by the rapid, forced exhaust of air causes large amounts of air from outside the containment barriers to rush in any available opening.

NESHAP - National Emission Standards for Hazardous Air Pollutants -- EPA regulation 40 CFR subpart M, part 61.

NIOSH - the National Institute for Occupational Safety and Health, NIOSH is a Owneral toxic substance control research and publishing organization involved in the asbestos industry.

NIOSH/MSHA - the official approving agencies for respiratory protective equipment who test and certify respirators.

NON-FRIABLE - a material in a building which when dry may not be crumbled, pulverized, or reduced to powder by hand pressure. (e.g. floor tile, carpet, wallboard, plasters, presswood, etc.)

NUMERICAL VALUE - refers to the types and percentages of asbestos present in a given sample.

OILLESS COMPRESSOR - an air compressor that is not oil lubricated, which does not allow carbon monoxide to be formed in the breathing air.

& M PROGRAM - Operation and Maintenance Program.

OPEN CIRCUIT SCBA - a type of self-contained breathing unit which exhausts the exhaled air to the atmosphere instead of recirculating it.

"ORANGE BOOKLETS" - EPA publications issued in March 1979 titled Asbestos-Containing Materials in School Buildings: A Guidance Document, parts I and II.

OSHA - Occupational Safety and Health Administration; the Owner agency responsible for regulating safety procedures within workplace environments.

OXYGEN DEFICIENT ATMOSPHERE - any atmosphere containing less than 19.5% oxygen.

PARTICULATE CONTAMINANTS - minute airborne particles given off in the form of dusts, smokes, fumes, or mists.

PAT SAMPLES - Proficiency Analytical Testing of asbestos samples conducted through NIOSH for laboratories involved with the analysis of asbestos samples.

P&CAM 239 - a NIOSH sampling and analytical method for measuring airborne fibers using phase-contrast microscopy.

PHASE CONTRAST MICROSCOPY (PCM) - an analytical procedure performed on asbestos air samples to determine the number of fibers on a cassette filter.

PEL - permissible exposure limit. An airborne concentration of asbestos of 0.2 fibers per cubic centimeter (f/cc) of air calculated as an eight (8) hour time weighted average.

PENETRATING ENCAPSULANT - liquid material applied to asbestos-containing material to control airborne fiber release by penetrating into the material and binding its components together.

PERITONEUM - the thin membrane that lines the surface of the abdominal cavity.

PERSONAL - air sample taken in the breathing zone of the asbestos abatement personnel according to 1926.1101 of the OSHA regulations. These samples will be placed on employees who are exposed to representative concentrations of airborne asbestos fibers. Personal sampling will ensure that the workmen performing the asbestos abatement projects are not exposed to contamination levels which exceed their respirator protection or otherwise endanger their health.

PERSONAL PROTECTIVE EQUIPMENT (PPE) - any material or device worn to protect a worker from exposure to, contact with, any harmful material or force.

PERSONNEL PROTECTION - notification and instruction of all workers prior to the beginning of a project as to the hazards associated with the job and what they can do to protect themselves from these hazards.

PF - protection factor as provided by a respirator which is determined by dividing the airborne fiber concentration inside the mask.

PHASE CONTRAST MICROSCOPY (PCM) - an analytical procedure performed on asbestos air samples to determine the number of fibers on a cassette filter.

PIPE JOINT - an elbow, valve, flange, connector, or other type of pipe connection.

PIPE LAGGING - the insulation or wrapping around a pipe.

PLENUM - a horizontal space designed to transport air in a building. They are commonly found below ground level and in the space between a dropped ceiling and the floor above it.

PLEURA - the thin membrane surrounding the lungs, and which lines the internal surface of the chest cavity.

PLM - Phase Light Microscopy. Method of bulk sample analysis.

PNEUMOCONIOSIS - a condition in the lungs which is a result of having inhaled various dusts and particles for a prolonged period of time.

POLARIZED LIGHT MICROSCOPY (PLM) - an analytical procedure performed on asbestos bulk samples to determine the percent of asbestos by volume of the material.

POLYETHYLENE - plastic sheeting used for sealing off asbestos work areas such as large enclosures and minienclosures. Also used for drop clothes and various other asbestos work practices.

POSITIVE AIR-PURIFYING RESPIRATOR - air is supplied to the respirator wearer. This is done by either having the surrounding air forced through the respirator filters or by a supplied air source forced through the respirator filters.

POST ABATEMENT (CLEARANCE) AIR SAMPLES - samples collected following the completion of an asbestos abatement project in order for clearance of the site in accordance with air levels set by applicable regulations.

POSTING - refers to caution or warning signs which should be posted in any area in which asbestos removal is taking place, or where airborne fiber levels may present a health hazard.

POWERED AIR PURIFYING RESPIRATOR (PAPR) - either a full facepiece, helmet, or hooded respirator that has the breathing air powered to the wearer after it has been purified through a filter.

PRE-CONSTRUCTION CONFERENCE - a meeting held before any work begins between the contractor and the Owner at which time the job specifications are discussed and all details of the work agreed upon.

PRE-EMPLOYMENT PHYSICAL - complete medical examination of an employee before the job begins to determine whether or not he/she is fit to perform the functions of their employment.

PRESSURE DEMAND AIRLINE DEVICES - a respiratory protection device which has a regulator and valve design such that there is a continuous flow of air into the facepiece at all times.

PREVALENT SAMPLES - air samples taken under normal conditions (background samples).

PREVENTIVE MEASURE - actions taken to reduce disturbance of ACBMs or otherwise eliminate the reasonable likelihood of the material's becoming damaged or significantly damaged.

PROGRESS PAYMENTS - a pre-work agreement whereby the Owner pays the contractor after completion of certain phases of the project.

PROTECTIVE CLOTHING - protective, lightweight garments worn by workers performing asbestos abatement to keep gross contamination off the body.

PULMONARY - pertaining to, or affecting the lungs, or some portion thereof.

PULMONARY FUNCTION TESTS - a part of the medical examination required to determine the health status of a person's lungs.

PURPLE BOOK - EPA publication of June 1985 titled, "Guidance for Controlling Asbestos-Containing Materials in Buildings, 1985 Edition." This document is a revision of the "Blue Book."

QUALITATIVE FIT - a method of testing a respirator's face-to-facepiece seal by covering the inhalation or exhalation valves and either breathing in or out to determine the presence of any leaks.

RALES - an abnormal sound heard from the lungs which does not necessarily indicate any specific disease.

RANDOM SAMPLE - a sample drawn in such a way that there is no set pattern and is designed to give a true representation of the entire population or area.

RECORDKEEPING - detailed documentation of all program activities, decisions, analyses, and any other pertinent information to a project.

REGULATED AREA - an area established to demarcate (mark off) areas where airborne concentrations of asbestos exceed or can reasonably be expected to exceed the PEL (i.e., minienclosure).

REMOVAL - a response action entailing actual removal of ACMs from buildings.

RENOVATION - the modifying of any existing structure or portion thereof.

RESOLUTION - the ability to distinguish between individual objects, as with a microscope.

RESPIRABLE - breathable

RESPIRATOR - the various kinds of face-covering devices which filter asbestos from the air in contaminated areas.

RESPIRATOR FIT TESTING - process of using an irritant gas to ensure that each subject's respirator fits in an air-tight manner.

RESPIRATOR PROGRAM - program designed to motivate and train personnel to wear proper respiratory protection, and to provide administrative controls to ensure that these objectives are met.

RESPONSE ACTION - a method, including removal, encapsulation, enclosure, repair, operations and maintenance, that protects human health and the environment from friable ACBM.

RESPONSE TEAM - a group of workers selected to conduct specific asbestos related activities.

RESUSPENSION - the secondary dispersal or re-entrainment or settled fibers which have previously been released by impact or fallout.

RIP-OUT - the actual removal of asbestos-containing materials from a building.

RISK - the likelihood or probability of developing a disease, or being hurt, as the result of exposure to a contaminant or a condition.

SCANNING ELECTRON MICROSCOPY (SEM) - a method of microscopic analysis which utilizes an electron beam directed at the sample and then collects the beams that are reflected to produce an image from which fibers can be identified and counted.

SCANNING TRANSMISSION ELECTRON MICROSCOPY (STEM) - a combination of a transmission electron microscope with scanning and focusing coils so that a beam of electrons can be scanned over the sample or pinpointed in a particular area.

SCBA - self-contained breathing apparatus

SCHOOL BUILDING - this term means: (1) Any structure suitable for use as a classroom, including a school facility such as a laboratory, library, school eating facility, or facility used for the preparation of food (2) Any gymnasium or other facility which is specially designed for athletic or recreational activities for an academic course in physical education. (3) Any other facility used for the instruction or housing of students or for the administration of educational research programs. (4) Any maintenance, storage, or utility facility, including any hallway, essential to the operation of any facility described in this definition of "school building" under paragraph (1), (2), or (3). (5) Any portico or covered exterior hallway or walkway. (6) Any exterior portion of a mechanical system used to condition interior space.

SERPENTINE - one of the two major groups of minerals from which the asbestiform minerals are derived, distinguished by their tubular structure and chemical composition.

SHOWER ROOM - a room between the clean room and the equipment room in a worker decontamination system in which workers take showers when leaving the work area.

SIGNIFICANTLY DAMAGED FRIABLE MISCELLANEOUS ACM - Damaged friable miscellaneous ACM where the damage is extensive and severe.

SIGNIFICANTLY DAMAGED FRIABLE SURFACING ACM - Damaged friable surfacing ACM in a functional space where the damage is extensive and severe.

SPIROMETER - an instrument which measures the volume of air being expired from the lungs.

STEEL BEAMS - building components which support the joists.

STRUCTURAL MEMBER - any load-supporting member such as beams and load supporting walls of a facility.

SUBSTRATE - the material or existing surface located under or behind the asbestos-containing material.

SUPPLIED AIR RESPIRATOR - a respirator that has a central source of breathing air which is supplied to the wearer by way of an airline.

SURFACING MATERIAL - material that is sprayed-on, towelled-on, or otherwise applied to surfaces, such as acoustical plaster or ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing or other purposes.

SURFACTANT - chemical solution used to "amend" water, or make it wetter for spraying on asbestos ceiling materials.

THERMAL SYSTEM INSULATION (MATERIAL) - material applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat loss or gain, or water condensation, or for other purposes.

TLV - levels of contaminants established by the American Conference of Owerenal Industrial Hygienists to which it is believed that workers can be exposed to with minimal adverse health effects.

TRANSITE - a trade name for asbestos cement wallboard and pipe.

TRANSMISSION ELECTRON MICROSCOPY (TEM) - the highest power microscopy available, this instrument is able to see individual atoms of material. This method is occasionally used to analyze both air and bulk asbestos samples. However, due to the high cost, PCM and PLM are more commonly used.

TREATED CELLULOSE - an insulation material made of paper or wood products with fire-retarding treatment added.

TUMOR - a swelling or growth of cells and tissue in the body which does not serve a useful purpose.

TWA - time-weighted average, as in air sampling.

TYPE B READER - a physician with specialized training in reading x-rays, specifically in recognizing lung disorders.

TYPE C SUPPLIED AIR RESPIRATOR - a respirator designed to provide a very high level of protection which supplies air to the wearer from an outside source such as a compressor.

USEPA - United States Environmental Protection Agency

VERMICULITE - a micaceous mineral that is sometimes used as a substitute for asbestos which is lightweight and highly water-absorbent.

VISIBLE EMISSIONS - airborne fibers given off from an asbestos-containing source that are visible to the human eye

VISUAL INSPECTION - a walk-through type inspection of the work area to detect incomplete work, damage, or inadequate clean up of a worksite.

WASHROOM - a room between the work area and the clean room in the equipment decontamination enclosure system where workers shower.

WATER DAMAGE - deterioration or delamination of ceiling or wall materials due to leaks from plumbing or cracks in the roof.

WBGT - Wet Bulb Globe Temperature, a heat stress index.

WET WIPING - the process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning utensils which have been dampened with amended water or diluted removal encapsulant, and afterwards thoroughly decontaminated or disposed of as asbestos contaminated waste.

WETTING AGENTS - materials that are added to water which is used for wetting the asbestos-containing material in order for the water to penetrate more effectively.

WORK AREA - air sample taken inside the work area to ensure that the workmen performing the asbestos abatement projects are not exposed to contamination levels which exceed their respirator protection or otherwise endanger their health. The sample will be collected from the breathing zones of workers performing the abatement. A minimum of one sample will be collected per work area per day of abatement.

WORKMEN'S COMPENSATION - a system of insurance required in some states by law, financed by employers, which provides payments to employees or their families for occupational injuries, illness, or fatalities resulting in loss of wage or income incurred while at work.

AGE SCHOOL





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3

★ Savage Superstars ★



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VANBUDE









