



46555 Humboldt Dr. Ste. 100  
Novi, MI 48377  
(248) 669-5140 | oneatlas.com



Client Name:	City of Kalamazoo
Project Name:	Residential Asbestos Survey
Project Number:	188BS23113
Project Site Address (Subject Property):	744 E Vine Street, Kalamazoo, MI 49001
Date of Site Visit:	2/16/23
Asbestos Inspection Performed by:	Andrew DeLodder (A48677)
Asbestos Inspector's Signature:	<i>Andrew DeLodder</i>
Areas Not Accessible:	All Areas Accessible
Number of Floors:	1 Floor with Basement
Asbestos Present (Yes/No/Other):	Yes

On the date indicated above, State of Michigan Asbestos Inspector, Andrew DeLodder (A48677) from Atlas Technical Consultants, conducted a pre-demolition asbestos and other regulated materials inspection of the subject unoccupied residential property.

Table I identifies materials that were found to contain asbestos in concentrations greater than 1% and therefore are regulated under the rules of asbestos in the State of Michigan.

**TABLE I  
Asbestos-Containing Materials**

ID#	MATERIAL	LOCATION	QUANTITY	RESULT	NESHAP CATEGORY
18-MB-A,B,C	Millboard- Above furnace and surrounding area	FS-8	25 SF	PLM 60% Chrysotile	RACM
19-PI-A,B,C	Pipe Insulation- Wool-felt paper insulation, directly above furnace	FS-8	10 LF	PLM 25% Chrysotile	RACM
20-DW-A,B,C	Duct Wrap- on ducts (Mainly on bottom of vents)	FS-8	10 SF	PLM 80% Chrysotile	RACM
24-MLF-A,B,C	Multi-Layer Floor	FS-6	50 SF	PLM 4% Chrysotile (FT Layer Only)	Cat II

The purpose of this inspection was to task an accredited asbestos inspector to complete a pre-demolition asbestos and hazardous material survey of the subject site, and provide recommendation options for removal and disposal of identified hazardous/regulated materials prior to demolition of the building(s). The asbestos inspection consisted of the following three basic procedures: conducting a visual inspection of the structure, Identifying homogeneous areas (HAs) of suspect surfacing, thermal system insulation, and miscellaneous materials; and sampling identified friable and non-friable suspect materials.

Bulk samples of suspect ACMs were collected and placed into individual containers for transport under Chain of Custody (COC) to a National Voluntary Lab Accreditation Program (NVLAP)-accredited laboratory for analysis. Materials typically known as non-asbestos items (i.e. fibrous glass, foam rubber, wood, etc.) were not sampled.

Laboratory Reports and associated COC's are provided in **Attachment A**. Photographs of the site are included in **Attachment B**. The following sections summarize Atlas' findings.

Table II below identifies the suspect asbestos-containing materials identified during the survey, their locations, approximate quantity, type and percentage of asbestos.

**TABLE II  
Suspect Asbestos-Containing Materials**

HA/ID#	MATERIAL	LOCATION	RESULT
1-RM-A,B,C	Roofing Materials- Beige, asphalt shingle roof	EA-5	ND
2-VP-A,B,C	Vapor Paper- Brown, Under interior wood floors	FS-1,2,3,4,5,6,7	ND

3-EC-A,B,C	Exterior Caulk- White/Beige, around rear door frame	EA-3	ND
4-EC-A,B,C	Exterior Caulk- White, on aluminum, window trim	EA-1,2,3,4	ND
5-EC-A,B,C	Exterior Caulk- White, seam between CMU block and vinyl siding	EA-2,4	ND
6-EC-A,B,C	Exterior Caulk- White, around basement windows	EA-2,4	ND
7-EC-A,B,C	Exterior Caulk- White, on front porch concrete block	EA-1	ND
8-EC-A,B,C	Exterior Caulk- White, around wood window frame	EA-1	ND
9-EC- A,B,C	Exterior Caulk- on electrical penetration (cable)	EA-4	ND
10-WG-A,B,C	Window Glaze- Basement windows	EA-2,4	ND
11-WG-A,B,C	Window Glaze- Wood Window	EA-1	ND
12-PL- A,B,C,D,E	Plaster- On wallboard under paneling	FS- 1,2,3,4,5,6,7	ND
13-PL-A,B,C	Plaster- on CMU block	FS-5,6,7	ND
14-TPL-A,B,C	Textured Plaster- Popcorn ceiling, and floor debris	FS-3	ND
15-TPL-A,B,C	Textured Plaster- Swirl wall pattern and floor debris	FS-6	ND
16-WBS- A,B,C	Wallboard System	FS-3,5,6,7	ND
17-HS-A,B,C	Heatshield- Fiberglass light fixture	FS- 1,2,3,4,5,6,7	ND
18-MB-A,B,C	Millboard- Above furnace and surrounding area	FS-8	PLM 60% Chrysotile
19-PI-A,B,C	Pipe Insulation- Wool-felt paper insulation, directly above furnace	FS-8	PLM 25% Chrysotile
20-DW-A,B,C	Duct Wrap- on ducts (Mainly on bottom of vents)	FS-8	PLM 80% Chrysotile
21-FS-A,B,C	Floor Sheeting- Under carpet	FS-2	ND
22-MLF-A,B,C	Multi-Layer Floor	FS-3	ND

23-FS-A,B,C	Floor Sheeting- Under Carpet	FS-4	ND
24-MLF-A,B,C	Multi-Layer Floor	FS-6	PLM 4% Chrysotile (FT Layer Only)
25-CA-A,B,C	Construction Adhesive- Under shower surround, Beige	FS-6	ND
26-BM-A,B,C	Brick Mortar- CMU Block	EA-2,3,4	ND
27-BM-A,B,C	Brick Mortar- Front Porch	EA-1	ND
28-BM-A,B,C	Brick Mortar- Exterior Foundation	EA-1,2,3,4	ND
29-CC-A,B,C	Concrete Chip- Exterior	EA-1,3,4	ND
30-CC-A,B,C	Concrete Chip- Back Room Slab	FS-5	ND
31-CC-A,B,C	Concrete Chip- Basement Floor	FS-8	ND
32-CC-A,B,C	Concrete Chip- Stairs to Basement	FS-7	ND
33-CC-A,B,C	Concrete Chip- Foundation Interior Skim Coat	FS-8	ND
34-IC-A,B,C	Interior Caulk- Around Toilet	FS-6	ND
35-PR-A,B,C	Packing Rope, brown around basement window frames & the seam between the foundation and the siding	EA-1.2.3.4	ND
36-DT-A,B,C	Duct Tape- Tape over HVAC seams with canvas material	FS-8	ND

ND = No asbestos detected, NA = Not applicable, UNQ = Unquantified; PC = Point Count

No other suspect ACMs were observed on the site. Although not anticipated based on surface observations, underground structures that could contain ACM may be present and should be managed accordingly if encountered during site redevelopment.

Asbestos is a hazardous substance. Its condition, handling and disposal are regulated by federal, state, and local agencies. ACMs generally do not pose a health threat unless the asbestos fibers are disturbed, become airborne and are inhaled.

Contractors working in an area where asbestos is present must be informed of the type and location of ACMs. Abatement of ACMs, including non-friable ACMs, must be performed by a Michigan licensed, certified and registered asbestos abatement contractor in accordance with state and federal Occupational Safety and Health Administration (OSHA) and local air quality management regulations.

Table III below lists Other Regulated Materials/Universal Wastes identified during the survey.

**TABLE III  
Other Regulated Materials/Universal Wastes**

MATERIAL	LOCATION	APPROXIMATE QUANTITY
*CFCS* Air Conditioners/ Refrigerators/Freezers/ Dehumidifiers	Refrigerator	1

Table IV below lists the functional spaces identified during the survey.

**Table IV  
Functional Space/ Exterior Area Designations**

DESCRIPTION	DESIGNATION
<b>Interior Functional Spaces</b>	
HVAC Room?	FS 1
Bedroom 1	FS 2
Kitchen	FS 3
Room	FS 4
Backroom	FS 5
Bathroom	FS 6
Stairs to Basement	FS 7
Basement	FS 8
<b>Exterior Areas</b>	
House Front	EA- 1
House Left Side	EA- 2
House Rear	EA- 3
House Right Side	EA- 4
House Roof	EA- 5

## RECOMMENDATIONS:

Except for the following items listed below, Section 61.145(c) of the Asbestos NESHAP requires that each owner or operator of a demolition or demolition activity involving RACM remove all such material from a facility being demolished or renovated before any activity begins that would break up, dislodge, or similarly disturb the material or preclude access to the material for subsequent removal.

ACM need not be removed before demolition if it:

- (i) Is a Category I non-friable ACM that is not friable.
- (ii) Is on a facility component that is encased in concrete or other similarly hard material and is adequately wet whenever exposed during demolition.
- (iii) Was not accessible for testing and therefore was not discovered until after demolition began and, as a result of the demolition, cannot be safely removed. If not removed for safety reasons, the exposed RACM and any asbestos-contaminated debris must be treated as asbestos-containing waste material and kept adequately wet at all times until disposed of.
- (iv) Is a Category II non-friable ACM and the probability is low that the material will become crumbled, pulverized, or reduced to powder during demolition.

Demolition with Roofing Materials in place is covered under the NESHAP regulations (40 CFR Part 61 Subpart M).

Roofing materials that were not tested during this inspection should be assumed to be Category I asbestos-containing roofing materials.

Since demolition activities do not include sanding, grinding, cutting, or abrading, Category I asbestos-containing roofing materials not in poor condition and not friable are not considered RACM, and are allowed to remain in place during demolition.

If the asbestos-containing roofing material is not in poor condition and is not friable, it may be disposed of in a landfill which accepts ordinary demolition waste.

The asbestos-containing roofing material may not be ground up for recycling into other products.

\*If joint compound within the drywall system is identified as positive, a composite sample was analyzed per NESHAP. If the drywall system as a composite sample is less than 1% asbestos, the material is not considered RACM per NESHAP. However, OSHA requirements regarding materials containing less than 1% asbestos still apply, and contractors performing work should ensure they comply with the requirements if the material is not removed prior to demolition.

In addition, contractors should ensure they follow all OSHA regulations pertaining to demolition / demolition of Category I Asbestos-containing materials. Category I or II non-friable ACM that is not subject to 61.150(a)(3) would still have to be disposed of in a landfill that accepts building debris, in a landfill that operates in accordance with 61.154, or at a facility that operates in accordance with 61.155.

**Prior to demolition, the following is recommended:**

An asbestos abatement company, licensed in the State of Michigan should remove the materials identified as asbestos containing in Table I in accordance with all applicable Local, State, and Federal Requirements prior to demolition.

Other Regulated Materials/Universal Wastes, identified in Table III, must be transported and disposed in accordance with all applicable Local, State, and Federal Requirements prior to demolition.

**LIMITATIONS:**

The results, findings, conclusions, and recommendations expressed in the report are based only on conditions that were noted during Atlas' inspection of the vacant above-referenced property located in Kalamazoo, Michigan.

Any conditions or materials that could not be visually identified through limited destructive sampling were not inspected and may differ from those conditions or materials noted. The user of this report should keep in mind that conditions may change with time and observations made by Atlas at the time of the site reconnaissance may not be consistent with future observations made by others.

Additional materials may be encountered during the demolition process and may require further sampling to determine disposal criteria.

The report is designed to aid the building owner, architect, construction manager, general contractors, and potential asbestos abatement contractors in locating asbestos building materials and Other Regulated Materials/Universal Wastes to be removed prior to demolition activities.

Under no circumstances is the report to be utilized as a bidding document or as a project specification document. Contractors bidding the demolition of this site should field-verify project information.

Atlas appreciates the opportunity to be of service to the City of Kalamazoo on this project. In the meantime, if you have questions regarding the information in this report or if we can be of further assistance do not hesitate to contact our office at (248) 669-5140.

**ATTACHMENT A**

**LABORATORY REPORTS AND CHAIN OF CUSTODY**





**ENVIRONMENTAL TESTING  
LABORATORIES, INC.**

37575 W HURON RIVER DRIVE  
ROMULUS, MICHIGAN 48174  
(734) 955-6600  
FAX: (734) 955-6604

To: Atlas - Novi  
46555 Humboldt Dr. Suite 100  
Novi, Michigan 48377

ETL Job: 255284  
Client Project: N/A  
Report Date: 2/28/2023

Attention: Robert Smith  
Project Location: 744 E Vine Street, Kalamazoo, MI 49001

Lab Sample Number	Client Sample Number	Sample Type	Completed
1464166	01-RM-A	Asbestos	02/27/2023
1464167	01-RM-B	Asbestos	02/27/2023
1464168	01-RM-C	Asbestos	02/27/2023
1464169	02-VP-A	Asbestos	02/27/2023
1464170	02-VP-B	Asbestos	02/27/2023
1464171	02-VP-C	Asbestos	02/27/2023
1464172	03-EC-A	Asbestos	02/27/2023
1464173	03-EC-B	Asbestos	02/27/2023
1464174	03-EC-C	Asbestos	02/27/2023
1464175	04-EC-A	Asbestos	02/27/2023
1464176	04-EC-B	Asbestos	02/27/2023
1464177	04-EC-C	Asbestos	02/27/2023
1464178	05-EC-A	Asbestos	02/27/2023
1464179	05-EC-B	Asbestos	02/27/2023
1464180	05-EC-C	Asbestos	02/27/2023
1464181	06-EC-A	Asbestos	02/27/2023


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Lab Sample Number	Client Sample Number	Sample Type	Completed
1464182	06-EC-B	Asbestos	02/27/2023
1464183	06-EC-C	Asbestos	02/27/2023
1464184	07-EC-A	Asbestos	02/27/2023
1464185	07-EC-B	Asbestos	02/27/2023
1464186	07-EC-C	Asbestos	02/27/2023
1464187	08-EC-A	Asbestos	02/27/2023
1464188	08-EC-B	Asbestos	02/27/2023
1464189	08-EC-C	Asbestos	02/27/2023
1464190	09-EC-A	Asbestos	02/27/2023
1464191	09-EC-B	Asbestos	02/27/2023
1464192	09-EC-C	Asbestos	02/27/2023
1464193	10-WG-A	Asbestos	02/27/2023
1464194	10-WG-B	Asbestos	02/27/2023
1464195	10-WG-C	Asbestos	02/27/2023
1464196	11-WG-A	Asbestos	02/27/2023
1464197	11-WG-B	Asbestos	02/27/2023
1464198	11-WG-C	Asbestos	02/27/2023
1464199	12-PL-A	Asbestos	02/27/2023
1464200	12-PL-B	Asbestos	02/27/2023
1464201	12-PL-C	Asbestos	02/27/2023
1464202	12-PL-D	Asbestos	02/27/2023
1464203	12-PL-E	Asbestos	02/27/2023
1464204	13-PL-A	Asbestos	02/27/2023
1464205	13-PL-B	Asbestos	02/27/2023
1464206	13-PL-C	Asbestos	02/27/2023
1464207	14-TPL-A	Asbestos	02/27/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1464208	14-TPL-B	Asbestos	02/27/2023
1464209	14-TPL-C	Asbestos	02/27/2023
1464210	15-TPL-A	Asbestos	02/27/2023
1464211	15-TPL-B	Asbestos	02/27/2023
1464212	15-TPL-C	Asbestos	02/27/2023
1464213	16-WBS-A	Asbestos	02/27/2023
1464214	16-WBS-B	Asbestos	02/27/2023
1464215	16-WBS-C	Asbestos	02/27/2023
1464216	17-HS-A	Asbestos	02/27/2023
1464217	17-HS-B	Asbestos	02/27/2023
1464218	17-HS-C	Asbestos	02/27/2023
1464219	18-MB-A	Asbestos	02/27/2023
1464220	18-MB-B	Asbestos	02/27/2023
1464221	18-MB-C	Asbestos	02/27/2023
1464222	19-PI-A	Asbestos	02/27/2023
1464223	19-PI-B	Asbestos	02/27/2023
1464224	19-PI-C	Asbestos	02/27/2023
1464225	20-DW-A	Asbestos	02/27/2023
1464226	20-DW-B	Asbestos	02/27/2023
1464227	20-DW-C	Asbestos	02/27/2023
1464228	21-FS-A	Asbestos	02/27/2023
1464229	21-FS-B	Asbestos	02/27/2023
1464230	21-FS-C	Asbestos	02/27/2023
1464231	22-MLF-A	Asbestos	02/27/2023
1464232	22-MLF-B	Asbestos	02/27/2023
1464233	22-MLF-C	Asbestos	02/27/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1464234	23-FS-A	Asbestos	02/27/2023
1464235	23-FS-B	Asbestos	02/27/2023
1464236	23-FS-C	Asbestos	02/27/2023
1464237	24-MLF-A	Asbestos	02/27/2023
1464238	24-MLF-B	Asbestos	02/27/2023
1464239	24-MLF-C	Asbestos	02/27/2023
1464240	25-CA-A	Asbestos	02/27/2023
1464241	25-CA-B	Asbestos	02/27/2023
1464242	25-CA-C	Asbestos	02/27/2023
1464243	26-BM-A	Asbestos	02/27/2023
1464244	26-BM-B	Asbestos	02/27/2023
1464245	26-BM-C	Asbestos	02/27/2023
1464246	27-BM-A	Asbestos	02/27/2023
1464247	27-BM-B	Asbestos	02/27/2023
1464248	27-BM-C	Asbestos	02/27/2023
1464249	28-BM-A	Asbestos	02/27/2023
1464250	28-BM-B	Asbestos	02/27/2023
1464251	28-BM-C	Asbestos	02/27/2023
1464252	29-CC-A	Asbestos	02/27/2023
1464253	29-CC-B	Asbestos	02/27/2023
1464254	29-CC-C	Asbestos	02/27/2023
1464255	30-CC-A	Asbestos	02/27/2023
1464256	30-CC-B	Asbestos	02/27/2023
1464257	30-CC-C	Asbestos	02/27/2023
1464258	31-CC-A	Asbestos	02/27/2023
1464259	31-CC-B	Asbestos	02/27/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1464260	31-CC-C	Asbestos	02/27/2023
1464261	32-CC-A	Asbestos	02/27/2023
1464262	32-CC-B	Asbestos	02/27/2023
1464263	32-CC-C	Asbestos	02/27/2023
1464264	33-CC-A	Asbestos	02/27/2023
1464265	33-CC-B	Asbestos	02/27/2023
1464266	33-CC-C	Asbestos	02/27/2023
1464267	34-IC-A	Asbestos	02/27/2023
1464268	34-IC-B	Asbestos	02/27/2023
1464269	34-IC-C	Asbestos	02/27/2023
1464270	35-PR-A	Asbestos	02/27/2023
1464271	35-PR-B	Asbestos	02/27/2023
1464272	35-PR-C	Asbestos	02/27/2023
1464273	36-DT-A	Asbestos	02/27/2023
1464274	36-DT-B	Asbestos	02/27/2023
1464275	36-DT-C	Asbestos	02/27/2023

Reviewed by:   
Emily Nowacki

<u>Summary</u>			
Method	Sample	Layer	Mastic
PLM	125	5	9



# 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 : Atlas - Novi  
46555 Humboldt Dr. Suite 100  
Novi, Michigan 48377

ETL Job : 255284  
Client Project : N/A  
Date Collected : 02/16/2023  
Date Received : 02/22/2023

Location :  
744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464166 01-RM-A	Roofing Material	Beige/Black Fibrous Homogenous	PLM 5% Fiberglass	PLM 95% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464166 01-RM-A	Roofing Material	White/Black Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464166 01-RM-A	Roofing Material	Green/Black Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-3 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464167 01-RM-B	Roofing Material	Beige/Black Fibrous Homogenous	PLM 5% Fiberglass	PLM 95% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464167 01-RM-B	Roofing Material	White/Black Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464167 01-RM-B	Roofing Material	Green/Black Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-3 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464168 01-RM-C	Roofing Material	Beige/Black Fibrous Homogenous	PLM 5% Fiberglass	PLM 95% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464168 01-RM-C	Roofing Material	White/Black Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464168 01-RM-C	Roofing Material	Green/Black Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-3 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464169 02-VP-A	Vapor Paper	Brown Fibrous Homogenous	PLM 100% Cellulose		PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464170 02-VP-B	Vapor Paper	Brown Fibrous Homogenous	PLM 100% Cellulose		PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464171 02-VP-C	Vapor Paper	Brown Fibrous Homogenous	PLM 100% Cellulose		PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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Location :  
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464172 03-EC-A	Exterior Caulk	White/Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464173 03-EC-B	Exterior Caulk	White/Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464174 03-EC-C	Exterior Caulk	White/Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464175 04-EC-A	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464176 04-EC-B	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464177 04-EC-C	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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NA 471 AB CODE 2022-0

# 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 : Atlas - Novi  
46555 Humboldt Dr. Suite 100  
Novi, Michigan 48377

ETL Job : 255284  
Client Project : N/A  
Date Collected : 02/16/2023  
Date Received : 02/22/2023

Location :  
744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464178 05-EC-A	Exterior Caulk	White Non-Fibrous Non-Homogenous	PLM 40% Cellulose	PLM 60% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464179 05-EC-B	Exterior Caulk	White Non-Fibrous Non-Homogenous	PLM 40% Cellulose	PLM 60% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464180 05-EC-C	Exterior Caulk	White Non-Fibrous Non-Homogenous	PLM 40% Cellulose	PLM 60% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464181 06-EC-A	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464182 06-EC-B	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464183 06-EC-C	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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To : Atlas - Novi  
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ETL Job : 255284  
Client Project : N/A  
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744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464184 07-EC-A	Exterior Caulk	White Non-Fibrous Non-Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464185 07-EC-B	Exterior Caulk	White Non-Fibrous Non-Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464186 07-EC-C	Exterior Caulk	White Non-Fibrous Non-Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464187 08-EC-A	Exterior Caulk	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464188 08-EC-B	Exterior Caulk	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464189 08-EC-C	Exterior Caulk	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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ETL Job : 255284  
Client Project : N/A  
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464190 09-EC-A	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464191 09-EC-B	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464192 09-EC-C	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464193 10-WG-A	Window Glaze	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464194 10-WG-B	Window Glaze	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464195 10-WG-C	Window Glaze	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464196 11-WG-A	Window Glaze	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464197 11-WG-B	Window Glaze	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464198 11-WG-C	Window Glaze	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464199 12-PL-A	Plaster	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464199 12-PL-A	Skim Coat	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464199 12-PL-A	Drywall	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-3 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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ETL Job : 255284  
Client Project : N/A  
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Location :  
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464200 12-PL-B	Plaster	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464200 12-PL-B	Skim Coat	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464200 12-PL-B	Drywall	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-3 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464201 12-PL-C	Plaster	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464201 12-PL-C	Skim Coat	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464201 12-PL-C	Drywall	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-3 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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Client Project : N/A  
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Location :  
744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464202 12-PL-D	Plaster	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464202 12-PL-D	Skim Coat	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464202 12-PL-D	Drywall	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-3 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464203 12-PL-E	Plaster	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464203 12-PL-E	Skim Coat	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464203 12-PL-E	Drywall	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-3 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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Location :  
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464204 13-PL-A	Plaster	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464204 13-PL-A	Textured Plaster	Pink Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464205 13-PL-B	Plaster	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464205 13-PL-B	Textured Plaster	Pink Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464206 13-PL-C	Plaster	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464206 13-PL-C	Textured Plaster	Pink Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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To : Atlas - Novi  
 46555 Humboldt Dr. Suite 100  
 Novi, Michigan 48377

ETL Job : 255284  
 Client Project : N/A  
 Date Collected : 02/16/2023  
 Date Received : 02/22/2023

Location :  
 744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464207 14-TPL-A	Textured Plaster	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464208 14-TPL-B	Textured Plaster	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464209 14-TPL-C	Textured Plaster	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464210 15-TPL-A	Textured Plaster	Tan Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464211 15-TPL-B	Textured Plaster	Tan Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464212 15-TPL-C	Textured Plaster	Tan Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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ETL Job : 255284  
 Client Project : N/A  
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Location :  
 744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464213 16-WBS-A	Wallboard System - Drywall	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464213 16-WBS-A	Tape	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464213 16-WBS-A	Mud	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-3 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464214 16-WBS-B	Wallboard System - Drywall	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464214 16-WBS-B	Tape	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464214 16-WBS-B	Mud	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-3 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464215 16-WBS-C	Wallboard System - Drywall	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464215 16-WBS-C	Tape	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464215 16-WBS-C	Mud	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-3 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464216 17-HS-A	Heat Shield	Gray Fibrous Homogenous	PLM 100% Other fibrous		PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464217 17-HS-B	Heat Shield	Gray Fibrous Homogenous	PLM 100% Other fibrous		PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464218 17-HS-C	Heat Shield	Gray Fibrous Homogenous	PLM 100% Other fibrous		PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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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 : Atlas - Novi  
46555 Humboldt Dr. Suite 100  
Novi, Michigan 48377

ETL Job : 255284  
Client Project : N/A  
Date Collected : 02/16/2023  
Date Received : 02/22/2023

Location :  
744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464219 18-MB-A	Millboard	Gray Fibrous Homogenous	PLM 20% Cellulose	PLM 20% Other	PLM 60% Chrysotile

Analyst: Emmett Zainea  
Date Analyzed : 02/27/2023

1464220 18-MB-B		Positive Stop			
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Analyst: Emmett Zainea  
Date Analyzed : 02/27/2023  
Sample Not Analyzed

1464221 18-MB-C		Positive Stop			
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Analyst: Emmett Zainea  
Date Analyzed : 02/27/2023  
Sample Not Analyzed

1464222 19-PI-A	Pipe Insulation	Brown Fibrous Non-Homogenous	PLM 60% Cellulose	PLM 15% Other	PLM 25% Chrysotile
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Analyst: Emmett Zainea  
Date Analyzed : 02/27/2023

1464223 19-PI-B		Positive Stop			
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Analyst: Emmett Zainea  
Date Analyzed : 02/27/2023  
Sample Not Analyzed

1464224 19-PI-C		Positive Stop			
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Analyst: Emmett Zainea  
Date Analyzed : 02/27/2023  
Sample Not Analyzed

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 Romulus, Michigan 48174  
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## Polarized Light Microscopy Asbestos Analysis Report

To : Atlas - Novi  
 46555 Humboldt Dr. Suite 100  
 Novi, Michigan 48377

ETL Job : 255284  
 Client Project : N/A  
 Date Collected : 02/16/2023  
 Date Received : 02/22/2023

Location :  
 744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464225 20-DW-A	Duct Wrap	Gray Fibrous Homogenous		PLM 20% Other	PLM 80% Chrysotile

Analyst: Emmett Zainea  
 Date Analyzed : 02/27/2023

1464226 20-DW-B		Positive Stop			
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Analyst: Emmett Zainea  
 Date Analyzed : 02/27/2023  
 Sample Not Analyzed

1464227 20-DW-C		Positive Stop			
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Analyst: Emmett Zainea  
 Date Analyzed : 02/27/2023  
 Sample Not Analyzed

1464228 21-FS-A	Floor Sheeting	Brown/Red Fibrous Non-Homogenous	PLM 70% Cellulose	PLM 30% Other	PLM None Detected
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Analyst: Emmett Zainea  
 Date Analyzed : 02/27/2023

1464229 21-FS-B	Floor Sheeting	Brown/Red Fibrous Non-Homogenous	PLM 70% Cellulose	PLM 30% Other	PLM None Detected
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Analyst: Emmett Zainea  
 Date Analyzed : 02/27/2023

1464230 21-FS-C	Floor Sheeting	Brown/Red Fibrous Non-Homogenous	PLM 70% Cellulose	PLM 30% Other	PLM None Detected
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Analyst: Emmett Zainea  
 Date Analyzed : 02/27/2023

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## Polarized Light Microscopy Asbestos Analysis Report

To : Atlas - Novi  
46555 Humboldt Dr. Suite 100  
Novi, Michigan 48377

ETL Job : 255284  
Client Project : N/A  
Date Collected : 02/16/2023  
Date Received : 02/22/2023

Location :  
744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464231 22-MLF-A	Multi-Layer Floor	Gray Fibrous Non-Homogenous	PLM 5% Fiberglass PLM 5% Cellulose	PLM 90% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464231 22-MLF-A	Mastic	Yellow Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464232 22-MLF-B	Multi-Layer Floor	Gray Fibrous Non-Homogenous	PLM 5% Fiberglass PLM 5% Cellulose	PLM 90% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464232 22-MLF-B	Mastic	Yellow Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464233 22-MLF-C	Multi-Layer Floor	Gray Fibrous Non-Homogenous	PLM 5% Fiberglass PLM 5% Cellulose	PLM 90% Other	PLM None Detected
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464233 22-MLF-C	Mastic	Yellow Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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## Polarized Light Microscopy Asbestos Analysis Report

To : Atlas - Novi  
46555 Humboldt Dr. Suite 100  
Novi, Michigan 48377

ETL Job : 255284  
Client Project : N/A  
Date Collected : 02/16/2023  
Date Received : 02/22/2023

Location :  
744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464234 23-FS-A	Floor Sheeting	Brown Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected

Analyst: Emmett Zainea  
Date Analyzed : 02/27/2023

1464235 23-FS-B	Floor Sheeting	Brown Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
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Analyst: Emmett Zainea  
Date Analyzed : 02/27/2023

1464236 23-FS-C	Floor Sheeting	Brown Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
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Analyst: Emmett Zainea  
Date Analyzed : 02/27/2023

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Romulus, Michigan 48174  
(734) 955-6606, Fax: (734) 955-6604

## Polarized Light Microscopy Asbestos Analysis Report

To : Atlas - Novi  
46555 Humboldt Dr. Suite 100  
Novi, Michigan 48377

ETL Job : 255284  
Client Project : N/A  
Date Collected : 02/16/2023  
Date Received : 02/22/2023

Location :  
744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464237 24-MLF-A	Multi-Layer Floor - Floor Tile	Green Non-Fibrous Homogenous		PLM 96% Other	PLM 4% Chrysotile
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464237 24-MLF-A	Mastic	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464237 24-MLF-A	Floor Tile	Black Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-3 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464237 24-MLF-A	Mastic	Yellow Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-4 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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## Polarized Light Microscopy Asbestos Analysis Report

To : Atlas - Novi  
46555 Humboldt Dr. Suite 100  
Novi, Michigan 48377

ETL Job : 255284  
Client Project : N/A  
Date Collected : 02/16/2023  
Date Received : 02/22/2023

Location :  
744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464238 24-MLF-B		Positive Stop			
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023 Layer Not Analyzed					
1464238 24-MLF-B	Mastic	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464238 24-MLF-B	Floor Tile	Black Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-3 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464238 24-MLF-B	Mastic	Yellow Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-4 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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## Polarized Light Microscopy Asbestos Analysis Report

To : Atlas - Novi  
46555 Humboldt Dr. Suite 100  
Novi, Michigan 48377

ETL Job : 255284  
Client Project : N/A  
Date Collected : 02/16/2023  
Date Received : 02/22/2023

Location :  
744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464239 24-MLF-C		Positive Stop			
Layer-1 Analyst: Emmett Zainea Date Analyzed : 02/27/2023 Layer Not Analyzed					
1464239 24-MLF-C	Mastic	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464239 24-MLF-C	Floor Tile	Black Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-3 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464239 24-MLF-C	Mastic	Yellow Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-4 Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464240 25-CA-A	Construction Adhesive	Beige Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464241 25-CA-B	Construction Adhesive	Beige Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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## Polarized Light Microscopy Asbestos Analysis Report

To : Atlas - Novi  
46555 Humboldt Dr. Suite 100  
Novi, Michigan 48377

ETL Job : 255284  
Client Project : N/A  
Date Collected : 02/16/2023  
Date Received : 02/22/2023

Location :  
744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464242 25-CA-C	Construction Adhesive	Beige Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464243 26-BM-A	Brick Mortar	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464244 26-BM-B	Brick Mortar	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464245 26-BM-C	Brick Mortar	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464246 27-BM-A	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464247 27-BM-B	Brick Mortar	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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## Polarized Light Microscopy Asbestos Analysis Report

To : Atlas - Novi  
46555 Humboldt Dr. Suite 100  
Novi, Michigan 48377

ETL Job : 255284  
Client Project : N/A  
Date Collected : 02/16/2023  
Date Received : 02/22/2023

Location :  
744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464248 27-BM-C	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

Analyst: Emmett Zainea  
Date Analyzed : 02/27/2023

1464249 28-BM-A	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Analyst: Emmett Zainea  
Date Analyzed : 02/27/2023

1464250 28-BM-B	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Analyst: Emmett Zainea  
Date Analyzed : 02/27/2023

1464251 28-BM-C	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Analyst: Emmett Zainea  
Date Analyzed : 02/27/2023

1464252 29-CC-A	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Analyst: Emmett Zainea  
Date Analyzed : 02/27/2023

1464253 29-CC-B	Concrete Chlp	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Analyst: Emmett Zainea  
Date Analyzed : 02/27/2023

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Romulus, Michigan 48174  
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## Polarized Light Microscopy Asbestos Analysis Report

To : Atlas - Novi  
46555 Humboldt Dr. Suite 100  
Novi, Michigan 48377

ETL Job : 255284  
Client Project : N/A  
Date Collected : 02/16/2023  
Date Received : 02/22/2023

Location :  
744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464254 29-CC-C	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464255 30-CC-A	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464256 30-CC-B	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464257 30-CC-C	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464258 31-CC-A	Concrete Chip	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464259 31-CC-B	Concrete Chip	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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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 : Atlas - Novi  
46555 Humboldt Dr. Suite 100  
Novi, Michigan 48377

ETL Job : 255284  
Client Project : N/A  
Date Collected : 02/16/2023  
Date Received : 02/22/2023

Location :  
744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464260 31-CC-C	Concrete Chip	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464261 32-CC-A	Concrete Chip	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464262 32-CC-B	Concrete Chip	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464263 32-CC-C	Concrete Chip	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464264 33-CC-A	Concrete Chip	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464265 33-CC-B	Concrete Chip	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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To : Atlas - Novi  
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ETL Job : 255284  
Client Project : N/A  
Date Collected : 02/16/2023  
Date Received : 02/22/2023

Location :  
744 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464266 33-CC-C	Concrete Chip	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464267 34-IC-A	Interior Caulk	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464268 34-IC-B	Interior Caulk	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464269 34-IC-C	Interior Caulk	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464270 35-PR-A	Packing Rope	Brown Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					
1464271 35-PR-B	Packing Rope	Brown Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed : 02/27/2023					

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

Polarized Light Microscopy Asbestos Analysis Report

To : Atlas - Novi
46555 Humboldt Dr. Suite 100
Novi, Michigan 48377

ETL Job : 255284
Client Project : N/A
Date Collected : 02/16/2023
Date Received : 02/22/2023

Location :
744 E Vine Street, Kalamazoo, MI 49001

Table with 6 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, % Asbestos. Row 1: 1464272, Packing Rope, Brown Fibrous Homogenous, PLM 95% Cellulose, PLM 5% Other, PLM None Detected.

Analyst: Emmett Zainea
Date Analyzed : 02/27/2023

Table with 6 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, % Asbestos. Row 2: 1464273, Duct Tape, Brown/Gray Fibrous Non-Homogenous, PLM 50% Cellulose, PLM 50% Other, PLM None Detected.

Analyst: Emmett Zainea
Date Analyzed : 02/27/2023

Table with 6 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, % Asbestos. Row 3: 1464274, Duct Tape, Brown/Gray Fibrous Non-Homogenous, PLM 50% Cellulose, PLM 50% Other, PLM None Detected.

Analyst: Emmett Zainea
Date Analyzed : 02/27/2023

Table with 6 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, % Asbestos. Row 4: 1464275, Duct Tape, Brown/Gray Fibrous Non-Homogenous, PLM 50% Cellulose, PLM 50% Other, PLM None Detected.

Analyst: Emmett Zainea
Date Analyzed : 02/27/2023

Elm Kibini
Lab Supervisor/Other Signatory

Analyst:
Emmett Zainea

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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ENVIRONMENTAL TESTING LABORATORIES, INC  
 30900 HURON RIVER DRIVE  
 ROMULUS, MICHIGAN 48174  
 (734) 955-6600  
 FAX: (734) 992-2261  
 www.eta.com

Bulk Asbestos  
 Chain of Custody

ETL Project #: **255287**

Client: ATC Group Services	Contact: Rob Smith	Project: 744 E VINE STREET, KALAMAZOO, MICHIGAN 49001
Address: 45555 Humboldt Dr. Ste. 100 Novi, MI 48377	Phone: 248-669-5140	Location/Name:
	Fax: 248-669-5147	Client Project #:
	E-mail: <a href="mailto:rob.smith@atcgroup.com">rob.smith@atcgroup.com</a>	Date Sampled: 2.16.2023

Turnaround Time (TAT):  RUSH  Same Day  24 hr  48 hr  Standard (3-5 days)  Other 72 hours

PLM Instructions  
 (Check all that apply)

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive - <u>Clearly mark Homogenous Group</u>
Point Counting: <input type="checkbox"/> 400 Points* <input type="checkbox"/> NYSDOH ELAP 198.1, 2002*	
<input type="checkbox"/> Gravimetric Reduction* <input type="checkbox"/> NYSDOH ELAP 198.6, 2010*	
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	<input type="checkbox"/> Soil or Vermiculite Analysis*

\*Additional charge and turnaround may be required

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Lab ID	Sample ID	Material Description	Sample Location	QUANTITY
166 167	166	Roofing materials - beige asphalt shingle roof	EA-5	500 SF
169 170	171	Vapor paper - brown, under interior wood floors	FS-1,2,3,4,5,6,7	875 SF
172 173	174	Exterior caulk - white/caulk, around rear door frame	EA-3	20 LF
175 176	177	Exterior caulk - white, on aluminum window trim	EA-1,2,3,4	50 LF
178 179	180	Exterior caulk - white, seam between CMU block and vinyl siding	EA-2,4	30 LF
181 182	183	Exterior caulk - white, around basement windows	EA-2,4	25 LF
184 185	186	Exterior caulk - white, on front porch concrete block	EA-1	25 LF
187 188	189	Exterior caulk - white, around wood window frame	EA-1	30 LF
190 191	192	Exterior caulk - on electrical penetration (cable)	EA-4	1 SF
193 194	195	Window glaze - basement windows	EA-2,4	4 windows

Requested (Name/Organization)	Received (Name/ETL)	Date	Time
Andrew DeLodder / Atlas Technical Consultants	<i>[Signature]</i>	2/20/23	12:00 PM
	<i>[Signature]</i>	2-22-23	1:30 pm
	<i>[Signature]</i>	2-22-23	1:35 pm
	<i>[Signature]</i>	2/22/23	7:30 am
	<i>[Signature]</i>	2/22/23	7:30 am
	<i>[Signature]</i>	2-22-23	09:20 am

Special Instructions: 1st Positive Stop; • Composite all drywall/joint compound/mud samples if any layer of system is GREATER than 1% asbestos; • Point Count ALL PLASTER samples. Trace to 3% asbestos content • Point Count ALL SAMPLES Trace to 1% asbestos content	Remarks
---	---------

\*\*IN ORDER TO ENSURE RESULTS BY SPECIFIED TAT, THE LAB MUST BE EMAILED / CALLED WITH THE QUANTITY OF SAMPLES TO BE SHIPPED OR DROPPED OFF

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ENVIRONMENTAL TESTING LABORATORIES, INC  
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 www.2ell.com

Bulk Asbestos  
 Chain of Custody

ETL Project #: 255284

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

Lab ID	Sample ID	Material Description	Sample Location	QUANTITY
196 197 198	11-WG-A,B,C	Window glaze - wood window	EA-1	1 window
200 201 202	209 PL-A,B,C,D,E	Plaster - on wallboard under paneling	FS-1,2,3,4,5,6,7	2,000 SF
204 205 206	13-PL-A,B,C	Plaster - on CMU block	FS-5, 6,7	400 SF
207 208 209	14-TPL-A,B,C	Textured plaster - popcorn ceiling, and floor debris	FS-3	175 SF
210 211 212	15-TPL-A,B,C	Textured plaster - swirl wall pattern and floor debris	FS-8	60 SF
213 214 215	16-WBS-A,B,C	Wallboard system	FS-3, 5,6,7	450 SF
216 217 218	17-HS-A,B,C	Health kit - fiberglass light fixture	FS-1,2,3,4,5,6,7	10 SF
219 220 221	18-MB-A,B,C	M-board - above furnace and surrounding area	FS-8	25 SF
222 223 224	19-PI-A,B,C	Pipe insulation - woolfelt paper insulation, directly above furnace	FS-6	10 LF
225 226 227	20-DW-A,B,C	Duct wrap, on ducts (mainly on bottom of vents)	FS-8	10 SF
228 229 230	21-FS-A,B,C	Floor sheeting - under carpet	FS-2	60 SF
231 232 233	22-MLF-A,B,C	Multi-layer floor	FS-3	160 SF
234 235 236	23-FS-A,B,C	Floor sheeting - under carpet	FS-4	60 SF
237 238 239	24-MLF-A,B,C	Multi-layer floor	FS-6	60 SF
240 241 242	25-CA-A,B,C	Construction adhesive - under shower surround, beige	FS-6	40 SF
243 244 245	26-BM-A,B,C	Brick mortar - CMU block	EA-2,3,4	600 SF
246 247 248	27-BM-A,B,C	Brick mortar - front porch	EA-1	100 SF
249 250 251	28-BM-A,B,C	Brick mortar - exterior foundation	EA-1,2,3,4	600 SF
252 253 254	29-CC-A,B,C	Concrete chip - exterior	EA-1,3,4	120 SF
255 256 257	30-CC-A,B,C	Concrete chip - back room slab	FS-5	50 SF
258 259 260	31-CC-A,B,C	Concrete chip - basement floor	FS-8	675 SF
261 262 263	32-CC-A,B,C	Concrete chip - stairs to basement	FS-7	90 SF
264 265 266	33-CC-A,B,C	Concrete chip - foundation exterior skim coat	FS-8	500 SF
267 268 269	34-IC-A,B,C	Interior caulk - around toilet	FS-6	80 SF
270 271 272	35-PR-A,B,C	Packing rope - brown around basement window frames and the seam between the foundation and the siding	EA-1,2,3,4	180 LF
273 274 275	36-DT-A,B,C	Duct tape - tape over HVAC seams with canvas material	FS-8	20 LF
	NA	NA	NA	NA

2/2

**ATTACHMENT B**  
**PHOTOGRAPHS**

ASBESTOS-CONTAINING MATERIAL SURVEY  
VACANT COMMERCIAL PROPERTY  
744 E. VINE STREET  
KALAMAZOO, MI 49001



Street view of the house located at 740 E. Vine Street (EA-1) and roof (EA-5)



View of the left side of the house (EA-2)

ASBESTOS-CONTAINING MATERIAL SURVEY  
VACANT COMMERCIAL PROPERTY  
744 E.VINE STREET  
KALAMAZOO, MI 49001

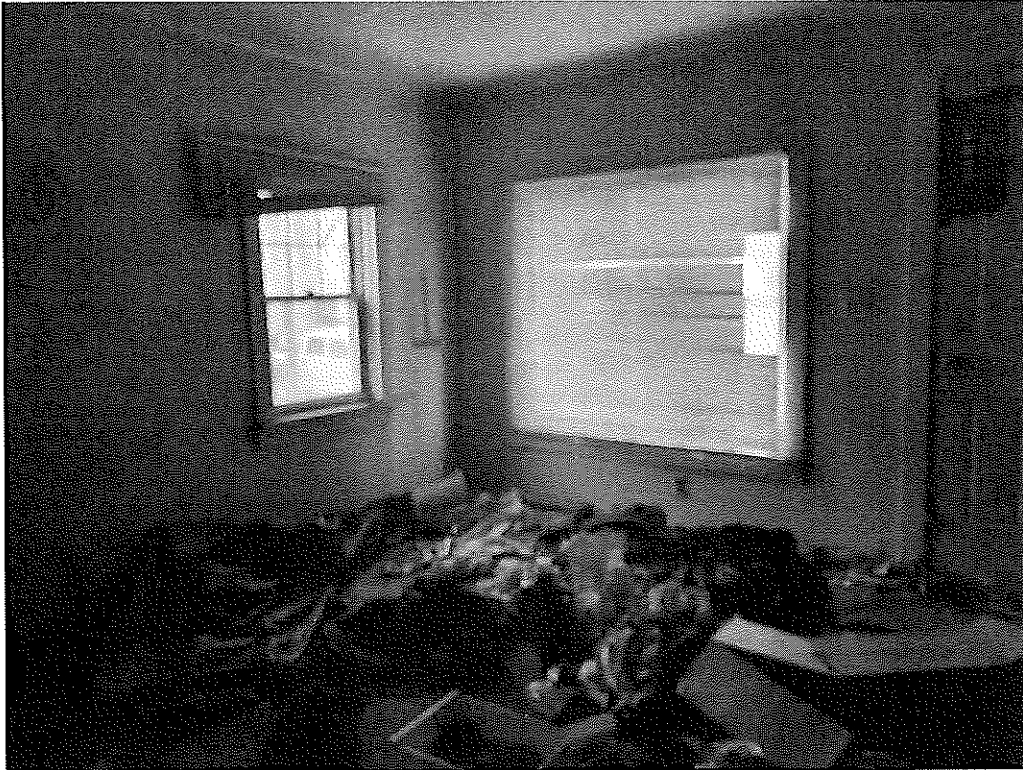


View of the rear of the house (EA-3)



View of the right side of the house (EA-4)

ASBESTOS-CONTAINING MATERIAL SURVEY  
VACANT COMMERCIAL PROPERTY  
744 E.VINE STREET  
KALAMAZOO, MI 49001



View of FS-1



View of FS-2

ASBESTOS-CONTAINING MATERIAL SURVEY  
VACANT COMMERCIAL PROPERTY  
744 E.VINE STREET  
KALAMAZOO, MI 49001



View of FS-3



View of FS-4

ASBESTOS-CONTAINING MATERIAL SURVEY  
VACANT COMMERCIAL PROPERTY  
744 E.VINE STREET  
KALAMAZOO, MI 49001



View of FS-5



View of FS-6

ASBESTOS-CONTAINING MATERIAL SURVEY  
VACANT COMMERCIAL PROPERTY  
744 E.VINE STREET  
KALAMAZOO, MI 49001



View of FS-7

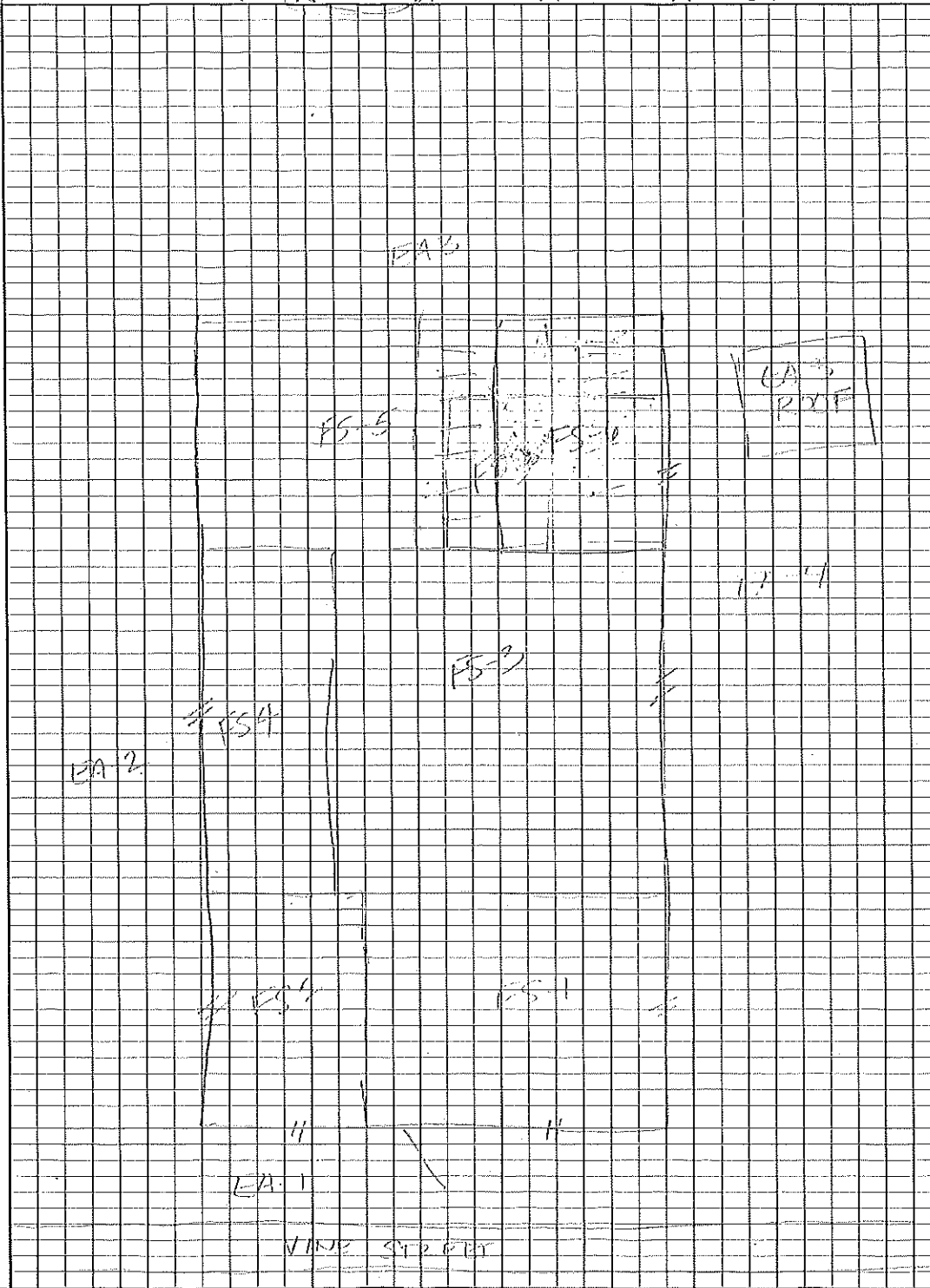


View of FS-8



**ATTACHMENT C**  
**FUNCTIONAL SPACE MAPS**

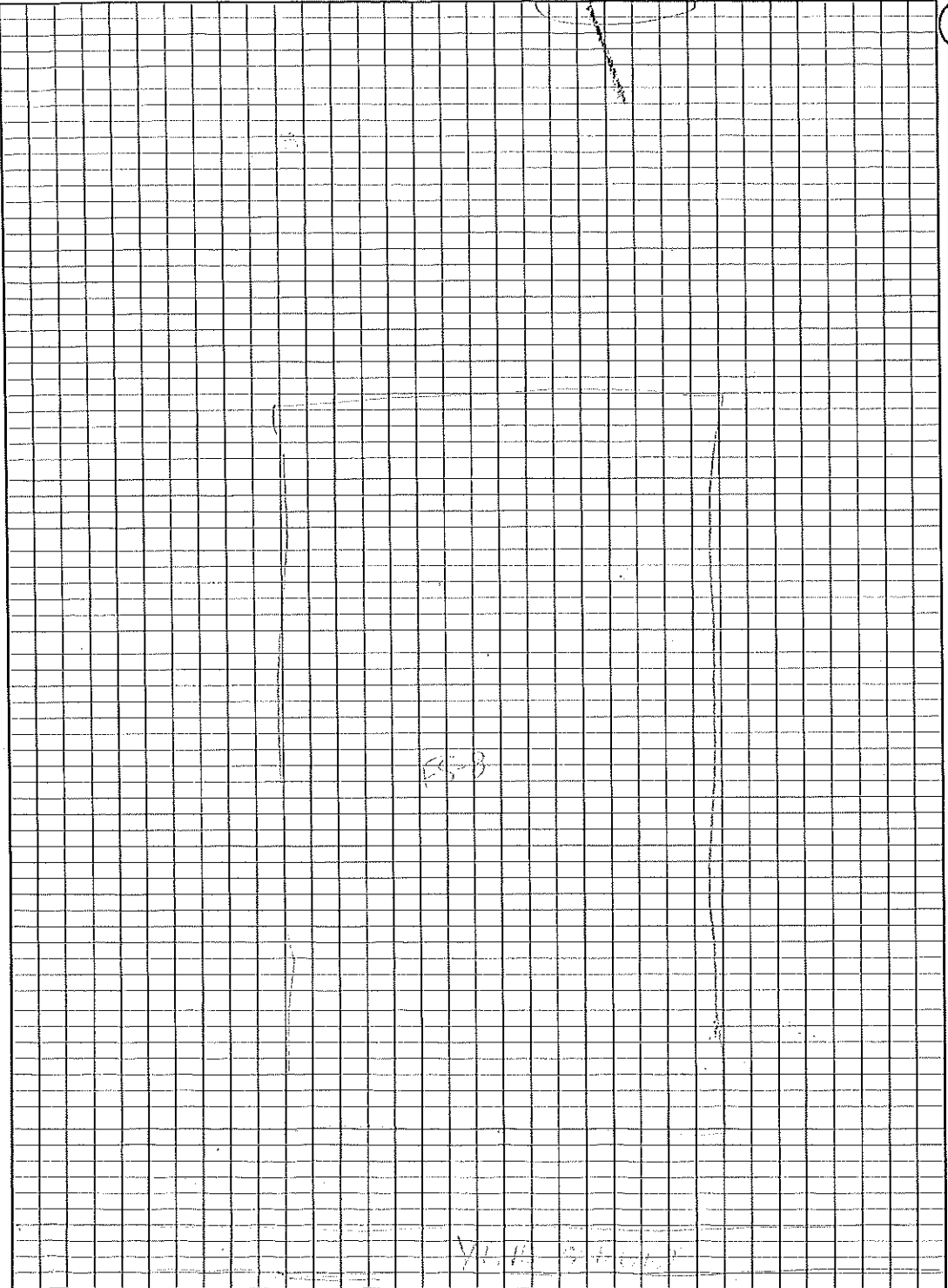
Circle: (Attic) (1st Floor) (2nd Floor) (Basement) (Garage)



Street Address: 744 E Vine Street, Kalamazoo, Michigan 49001



Circle: (Attic) (1st Floor) (2nd Floor) (Basement) (Garage)



← 3

VINE STREET

Street Address: 744 E Vine Street, Kalamazoo, Michigan 49001

25'

Inaccessible



35'