

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



Client Name:	City of Kalamazoo
Project Name:	Commercial Building Asbestos Survey
Project Number:	188BS23599
Project Site Address (Subject Property):	728 W Lovell Street, Kalamazoo, MI 49007
Date of Site Visit:	August 25, 2023
Asbestos Inspection Performed by:	Andrew DeLodder (A48677)
Asbestos Inspector's Signature:	Andrew De Sodder
Areas Not Accessible:	None
Number of Floors:	1
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 commercial 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
2-WG-A,B,C	Window Glaze Replacement, Gray, Wooden Multi-Pane Windows	EA-1, FS-2	3 Windows	PLM 2% Chrysotile	Cat I

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	QUANTITY	RESULT
1-RM-A,B,C	Roofing Material- Asphalt Shingles	FS-1	600 SF	ND
2-WG-A,B,C	Window Glaze Replacement, Gray, Wooden Multi-Pane Windows	EA-1, FS-2	3 Windows	PLM 2% Chrysotile
3-WG-A,B,C	Window Glaze Replacement, Off-White, Soft (2'x6')	EA-1, FS-2	3 Windows	ND
4-CC-A,B,C	Concrete Chip- Poured Concrete Foundation	FS-1	525 SF	ND
5-VP-A,B,C	Vapor Paper- Brown, Stall Interiors	FS-1,2,3,4	100 SF	ND
6-BM-A,B,C	Brick Mortar- CMU Block Wall	FS-2,3	200 SF	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
**CRTs/ TV Screens/ Monitors/Electronics	FS-2, 3	3∼ Various
**Automobile, Lawn Mower, Snow Blower	FS-3	1~ Lawn Mower
Misc. Items (Glue, Solvents, Cleaners, etc.)	FS-1,2,3,4	13~ Various
Paint Cans	FS-1,2,3,4	5~ Various
Tires	FS-4	1∼ Car Tire
Gas Can	FS-4	1~ 5 Gallon

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

Table IV Functional Space/ Exterior Area Designations

DESCRIPTION	DESIGNATION
Garage	FS-1,2,3,4
Exterior Area	EA-1,2,3,4
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



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**: 261001 **Client Project**: 188BS23599

Attention: Robert Smith

Project Location: 728 Lovell Street, Kalamazoo, MI 49007

City of Kalamazoo ACM Survey

Client Sample Number	Sample Type	Completed
1-RM-A	Asbestos	09/08/2023
1-RM-B	Asbestos	09/08/2023
1-RM-C	Asbestos	09/08/2023
2-WG-A	Asbestos	09/08/2023
2-WG-B	Asbestos	09/08/2023
2-WG-C	Asbestos	09/08/2023
3-WG-A	Asbestos	09/08/2023
3-WG-B	Asbestos	09/08/2023
3-WG-C	Asbestos	09/08/2023
4-CC-A	Asbestos	09/08/2023
4-CC-B	Asbestos	09/08/2023
4-CC-C	Asbestos	09/08/2023
5-VP-A	Asbestos	09/08/2023
5-VP-B	Asbestos	09/08/2023
5-VP-C	Asbestos	09/08/2023
6-BM-A	Asbestos	09/08/2023
	1-RM-A 1-RM-B 1-RM-C 2-WG-A 2-WG-B 2-WG-C 3-WG-A 3-WG-B 3-WG-C 4-CC-A 4-CC-B 4-CC-C 5-VP-A 5-VP-B	1-RM-A Asbestos 1-RM-B Asbestos 1-RM-C Asbestos 2-WG-A Asbestos 2-WG-B Asbestos 2-WG-C Asbestos 3-WG-A Asbestos 3-WG-A Asbestos 4-CC-A Asbestos 4-CC-B Asbestos 4-CC-C Asbestos 5-VP-B Asbestos 5-VP-C Asbestos Asbestos Asbestos Asbestos Asbestos Asbestos Asbestos

Lab Sample Number	Client Sample Number	Sample Type	Completed
1576309	6-BM-B	Asbestos	09/08/2023
1576310	6-BM-C	Asbestos	09/08/2023

Reviewed by:

Jessica Dilutth

SummaryMethodSampleLayerMasticPLM19



Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location: 728 Lovell Street, Kalamazoo, MI 49007

City of Kalamazoo ACM Survey

ETL Job: 261001

Client Project: 188BS23599

Date Collected: 08/25/2023

Date Received: 09/05/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1576293 1-RM-A	Roofing Material - Asphalt Shingle	Black Non-Fibrous	PLM Trace Cellulose PLM 9% Fiberglass	PLM 91% Other	PLM None Detected
Layer-1 Analyst: Jame Date Analyzed: 09	es Farinas 9/08/2023	Homogenous			
1576294 1-RM-B Layer-1 Analyst: Jame Date Analyzed: 09	Roofing Material - Asphalt Shingle es Farinas 3/08/2023	Black Non-Fibrous Homogenous	PLM Trace Cellulose PLM 3% Fiberglass	PLM 97% Other	PLM None Detected
1576295 1-RM-C Layer-1 Analyst: Jame Date Analyzed: 09	Roofing Material - Asphalt Shingle es Farinas 9/08/2023	Black Non-Fibrous Homogenous	PLM Trace Cellulose PLM 9% Fiberglass	PLM 91% Other	PLM None Detected
1576296 2-WG-A Layer-1 Analyst: Jam Date Analyzed: 09	Window Glaze es Farinas 9/08/2023	Beige / Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1576296 2-WG-A Layer-2 Analyst: Jame Date Analyzed: 08	Window Glaze es Farinas 3/08/2023	Grey / White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 98% Other	PLM 2% Chrysotile



Date Analyzed: 09/08/2023

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 261001

46555 Humboldt Dr. Suite 100

Client Project: 188BS23599

Novi, Michigan 48377

Date Collected: 08/25/2023 **Date Received**: 09/05/2023

Location: 728 Lovell Street, Kalamazoo, MI 49007

City of Kalamazoo ACM Survey

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1576297 2-WG-B	Window Glaze	Beige / Black Non-Fibrous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Layer-1 Analyst Date Analyzed :	: James Farinas 09/08/2023	Homogenous			
1576297 2-WG-B		Positive Stop			
Layer-2 Analyst Date Analyzed :	: James Farinas 09/08/2023				
Layer Not Analy	zed				
1576298 2-WG-C	Window Glaze	Beige / Black Non-Fibrous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Layer-1 Analyst Date Analyzed :	: James Farinas 09/08/2023	Homogenous			
1576298 2-WG-C		Positive Stop			
Layer-2 Analyst Date Analyzed :	: James Farinas 09/08/2023				
Layer Not Analy	zed				
1576299 3-WG-A	Window Glaze	Off-White Non-Fibrous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Layer-1 Analyst Date Analyzed :	: James Farinas 09/08/2023	Homogenous			
1576300 3-WG-B	Window Glaze	Off-White Non-Fibrous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Layer-1 Analyst	: James Farinas	Homogenous			



Date Analyzed: 09/08/2023

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location: 728 Lovell Street, Kalamazoo, MI 49007

City of Kalamazoo ACM Survey

ETL Job: 261001

Client Project: 188BS23599

Date Collected: 08/25/2023 **Date Received**: 09/05/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1576301 3-WG-C	Window Glaze	Off-White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	James Farinas 09/08/2023	. ioiniogeneae			
1576302 4-CC-A	Concrete Chip	Grey Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	James Farinas 09/08/2023	riomogenicus			
1576303 4-CC-B	Concrete Chip	Grey Non-Fibrous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Layer-1 Analyst: . Date Analyzed :	James Farinas 09/08/2023	Homogenous			
1576304 4-CC-C	Concrete Chip	Grey Non-Fibrous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Layer-1 Analyst: 、 Date Analyzed:	James Farinas 09/08/2023	Homogenous			
1576305 5-VP-A	Vapor Paper	Brown Fibrous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected
Layer-1 Analyst: . Date Analyzed :	James Farinas 09/08/2023	Homogenous			
1576306 5-VP-B	Vapor Paper	Brown Fibrous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected
Layer-1 Analyst: .	James Farinas	Homogenous			



Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 261001

46555 Humboldt Dr. Suite 100

Client Project: 188BS23599

Novi, Michigan 48377

Date Collected: 08/25/2023

140VI,WIIGIIIgaii 40377

Date Received: 09/05/2023

Location: 728 Lovell Street, Kalamazoo, MI 49007

City of Kalamazoo ACM Survey

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1576307 5-VP-C	Vapor Рарег	Brown Fibrous Homogenous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	James Farinas 09/08/2023	nomogenous			
1576308 6-BM-A	Brick Mortar	Grey Non-Fibrous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	James Farinas 09/08/2023	Homogenous			
1576309 6-BM-B	Brick Mortar	Grey Non-Fibrous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	James Farinas 09/08/2023	Homogenous			
1576310 6-BM-C	Brick Mortar	Grey Non-Fibrous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	James Farinas 09/08/2023	Homogenous			

Lab Supervisor/Other Signatory

Elm Wilini

Analyst:

James Farinas

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

 ${\sf EPA~600/M4-82-020:}\ Interim\ Method\ for\ Determination\ of\ Asbestos\ in\ Bulk\ Insulation\ Samples$

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)



Client:

Address:

ENVIRONMENTAL TESTING LABORATORIES, INC 38900 HURON RIVER DRIVE ROMULUS, MICHIGAN 48174 (734) 955-6600 FAX: (734) 992-2261

www.2etl.com

ATC Group Services

46555 Humboldt Dr. Ste. 100 Novi, MI 48377

Bulk Asbestos Chain of Custody

ETL Project #:	261001
 Project	728 LOVELL STREET, KALAMAZOO,
Location/name:	MICHIGAN 490017/ CITY OF
	KALAMAZOO ACM SURVEY
Client Project #	1000033500

	240-003-0141	KALAMAZOO ACM SURVEY
100 Novi, MI 48377	E-mail: robert.smith@atcqs.com	Client Project #: 1888923599
Please Provide Results: Email Fax Verbal Other		Date Sampled: 8/25/2023
Turnaround Time (TAT):	H ☐ Same Day ☐ 24 hr	☐ 48 hr ☐ Standard (3-5 days) X Other 72 hours
	PLM Instru (Check all that	
X PLM EPA600/R-93/116, 1993 (Standard method)		X Stop at 1st Positive -
Point Counting: ☐ 400 Points* ☐ NYSD	Clearly mark Homogenous Group	
☐ Gravimetric Reduction* ☐ NYSDOH E	LAP 198.6, 2010*	
□ PLM Non-Building Material (Dust, Wipe, Tape)		☐ Soil or Vermiculite Analysis*
Additional charge and turnaround may be requ	uired	The state of the s

Contact: Rob Smith

Fax:

Phone: 248-669-5140

248-669-5147

) Lab ID	Sample ID	Material Description	Sample Location	QUANTITY
29329129	5 1-RM-A,B,C	Roofing material - asphalt shingle	FS-1,	600 SF
296 297 29	g 2-WG-A,B,C	Window glaze replacement, grey, wooden multi-pane windows	EA-1, FS-2	3 windows
299 300 30	3-WG-A,B,C	Window glaze replacement, off-white, soft (2'x6' windows)	EA-1, FS-2	3 windows
30Z 303 30	4-CC-A,B,C	Concrete chip - poured concrete foundation	FS-1	525 SF
305 30630	7 5-VP-A,B,C	Vapor paper - brown, stall interiors	FS-1,2,3,4	100 SF
308 309310	6-BM-A,B,C	Brick mortar - CMU block wall	FS-2,3	200 SF
End of COC	End of COC	End of COC	End of COC	

Date	Time
8/25/2023	6:00pm
9.523	1400 am
9.5.23	1635 am
918/23	12:25 am
918123	12:25
9.3.23	1235 am
Remarks	
	9.5.23 9.5.23 9.5.23 9.8.23 9.8.23

LED/CALLED WITH THE QUANTITY OF SAMPLES TO BE SHIPPED OR DROPPED

ATTACHMENT B
PHOTOGRAPHS



View of the south side of the garage exterior (EA-1)



View of the west side of the garage exterior (EA-2)





View of the north side of the garage exterior (EA-3)



View of the east side of the garage exterior (EA-4)





View of the garage roof (EA-5)



View of the garage interior; bay 1 (FS-1)





View of the garage interior; bay 2 (FS-2)



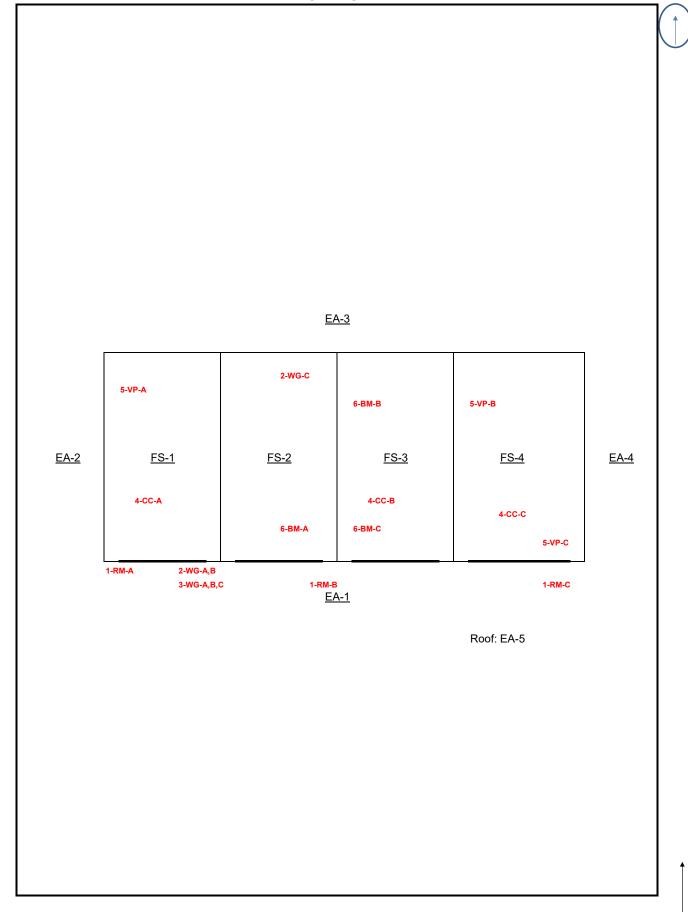
View of the garage interior; bay 3 (FS-3)





View of the garage interior; bay 4 (FS-4)

ATTACHMENT C FUNCTIONAL SPACE MAPS



Street Address: 728 W Lovell Street, Kalamazoo, Michigan 49007

Inacessible