



Atlas Technical Consultants

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|--|---|
| Client Name:   | City of Kalamazoo                                       |
| Project Name:  | Residential Garage Asbestos Survey                      |
| Project Number:  | 188BS22300  |
| Project Site Address (Subject Property):   | 1117 Cobb Avenue, Kalamazoo, MI 49007                   |
| Parcel Number:   | 06-16-204-007   |
| Date of Site Visit:  | 4/29/2022   |
| Asbestos Inspection Performed by:  | Andrew DeLodder (A48677)                                |
| Asbestos Inspector's Signature:  | Andrew DeSodder   |
| Areas Not Accessible:  | All areas accessible                                    |
| Number of Floors:  | one 2-story, approximately 490 square foot (SF), garage |
| 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 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<br>CATEGORY |
|------------|---|--------------------|------------|---------------|--------------------|
| 3-WG-A,B,C | Window glaze, multi-<br>pane on exterior and<br>stack in attic (FS-2) | EA 1-4, FS-<br>1,2 | 14 Windows | 2% Chrysotile | Category<br>II     |
| 4-TS-A,B,C | Transite siding   | EA-3               | 330 SF     | 8% Chrysotile | Category<br>II     |

The purpose of this inspection was to task an accredited asbestos inspector to complete a predemolition 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 material, garage                                       | EA-5           | ND – All Layers |
| 2-WG-A,B,C | Window glaze, white, multi-pane, garage door                   | EA 1           | ND              |
| 3-WG-A,B,C | Window glaze, multi-pane on exterior and stack in attic (FS-2) | EA 1-4, FS-1,2 | 2% Chrysotile   |
| 4-TS-A,B,C | Transite siding  | EA-3           | 8% Chrysotile   |

| HA/ID#      | MATERIAL   | LOCATION | RESULT |
|-------------|--|----------|--------|
| 5-VP-A,B,C  | Vapor paper, black – under<br>transite siding                    | EA 3     | ND     |
| 6-VP-A,B,C  | Vapor paper – under transite siding seams                        | EA-3     | ND     |
| 7-FS-A,B,C  | Floor sheeting debris, white - on work bench                     | FS-1     | ND     |
| 8-WB-A,B,C  | Wallboard – walls and ceiling                                    | FS-1     | ND     |
| 9-BM-A,B,C  | Brick mortar – CMU foundation                                    | EA-2,3,4 | ND     |
| 10-CC-A,B,C | Concrete chip – floor  | FS-1     | ND     |
| 11-EC-A,B,C | Exterior caulk, white – on wood siding, around windows, roofline | EA 1-4   | ND     |

**ND** = No asbestos detected, **NA** = Not applicable, **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<br>QUANTITY |
|--|----------|-------------------------|
| Misc. Items (glue, solvents, cleaners, etc.) | FS-1     | 7                       |
| Batteries                                    | FS-1     | 1                       |
| Paint Cans                                   | FS-1     | 3                       |
| CRTs/TV Screens/Monitors/Electronics         | FS-1     | 1                       |
| Automobile/Lawn Mower/Snow Blower            | FS-1     | 3                       |

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

Table IV Functional Space/ Exterior Area Designations

| DESCRIPTION                | DESIGNATION |  |  |  |  |  |
|----------------------------|-------------|--|--|--|--|--|
| Interior Functional Spaces |             |  |  |  |  |  |
| Garage Interior            | FS-1        |  |  |  |  |  |
| Garage Attic               | FS-2        |  |  |  |  |  |
| Exterior Areas             |             |  |  |  |  |  |
| Garage front               | EA-1        |  |  |  |  |  |
| Garage left side           | EA-2        |  |  |  |  |  |
| Garage rear                | EA-3        |  |  |  |  |  |
| Garage right side          | EA-4        |  |  |  |  |  |
| Garage 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 (616) 698-3131.

# 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:** 247738

Client Project: N/A

**Report Date: 5/5/2022** 

Attention: Robert Smith

Project Location: 1117 Cobb Ave, Kalamazoo

| Lab Sample Number | Client Sample Number | Sample Type | Completed  |
|-------------------|----------------------|-------------|------------|
| 1342709           | 01-RM-A              | Asbestos    | 05/05/2022 |
| 1342710           | 01-RM-B              | Asbestos    | 05/05/2022 |
| 1342711           | 01-RM-C              | Asbestos    | 05/05/2022 |
| 1342712           | 02-WG-A              | Asbestos    | 05/05/2022 |
| 1342713           | 02-WG-B              | Asbestos    | 05/05/2022 |
| 1342714           | 02-WG-C              | Asbestos    | 05/05/2022 |
| 1342715           | 03-WG-A              | Asbestos    | 05/05/2022 |
| 1342716           | 03-WG-B              | Asbestos    | 05/05/2022 |
| 1342717           | 03-WG-C              | Asbestos    | 05/05/2022 |
| 1342718           | 04-TS-A              | Asbestos    | 05/05/2022 |
| 1342719           | 04-TS-B              | Asbestos    | 05/05/2022 |
| 1342720           | 04-TS-C              | Asbestos    | 05/05/2022 |
| 1342721           | 05-VP-A              | Asbestos    | 05/05/2022 |
| 1342722           | 05-VP-B              | Asbestos    | 05/05/2022 |
| 1342723           | 05-VP-C              | Asbestos    | 05/05/2022 |
| 1342724           | 06-VP-A              | Asbestos    | 05/05/2022 |

| Lab Sample Number | Client Sample Number | Sample Type | Completed  |
|-------------------|----------------------|-------------|------------|
| 1342725           | 06-VP-B              | Asbestos    | 05/05/2022 |
| 1342726           | 06-VP-C              | Asbestos    | 05/05/2022 |
| 1342727           | 07-FS-A              | Asbestos    | 05/05/2022 |
| 1342728           | 07-FS-B              | Asbestos    | 05/05/2022 |
| 1342729           | 07-FS-C              | Asbestos    | 05/05/2022 |
| 1342730           | 08-WB-A              | Asbestos    | 05/05/2022 |
| 1342731           | 08-WB-B              | Asbestos    | 05/05/2022 |
| 1342732           | 08-WB-C              | Asbestos    | 05/05/2022 |
| 1342733           | 09-BM-A              | Asbestos    | 05/05/2022 |
| 1342734           | 09-BM-B              | Asbestos    | 05/05/2022 |
| 1342735           | 09-BM-C              | Asbestos    | 05/05/2022 |
| 1342736           | 10-CC-A              | Asbestos    | 05/05/2022 |
| 1342737           | 10-CC-B              | Asbestos    | 05/05/2022 |
| 1342738           | 10-CC-C              | Asbestos    | 05/05/2022 |
| 1342739           | 11-EC-A              | Asbestos    | 05/05/2022 |
| 1342740           | 11-EC-B              | Asbestos    | 05/05/2022 |
| 1342741           | 11-EC-C              | Asbestos    | 05/05/2022 |
|                   |                      |             |            |

Reviewed by:

Enily North

**Emily Nowacki** 

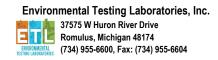
**Summary** 

| Method | Sample | Layer | Mastic |
|--------|--------|-------|--------|
| PLM    | 32     |       |        |

Lab Sample Number Client Sample Number Sample Type Completed

This report is intended for use solely by the individual or entity to which it is addressed. This report may not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. It may contain information that is privileged, confidential and otherwise exempt by law from disclosure. If the reader of this information is not the intended recipient or an employee of its intended recipient, you are herewith notified that any dissemination, distribution or copying of this information is strictly prohibited. If you have received this information in error, please notify ETL immediately. Thank you.





# Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

Atlas - Novi

Client Project : N/A
46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

**Date Collected**: 04/29/2022 **Date Received**: 05/02/2022

**ETC Job:** 247738

Location:

1117 Cobb Ave, Kalamazoo

| Sample                                   | Description                  | Appearance                         | % Fibrous         | % Non-Fibrous | % Asbestos        |
|--|------------------------------|------------------------------------|-------------------|---------------|-------------------|
| 1342709<br>01-RM-A<br>Layer-1 Analyst: I | Roofing Material             | Green<br>Non-Fibrous<br>Homogenous | PLM 4% Cellulose  | PLM 96% Other | PLM None Detected |
| Date Analyzed :                          | 05/05/2022                   |                                    |                   |               |                   |
| 1342709<br>01-RM-A                       | Roofing Material             | Black<br>Fibrous                   | PLM 99% Cellulose | PLM 1% Other  | PLM None Detected |
| Layer-2 Analyst: I<br>Date Analyzed :    | Dawson Bradley<br>05/05/2022 | Homogenous                         |                   |               |                   |
| 1342710<br>01-RM-B                       | Roofing Material             | Green<br>Non-Fibrous               | PLM 4% Cellulose  | PLM 96% Other | PLM None Detected |
| Layer-1 Analyst: I<br>Date Analyzed :    | Dawson Bradley<br>05/05/2022 | Homogenous                         |                   |               |                   |
| 1342710<br>01-RM-B                       | Roofing Material             | Black<br>Fibrous                   | PLM 99% Cellulose | PLM 1% Other  | PLM None Detected |
| Layer-2 Analyst: I<br>Date Analyzed :    | Dawson Bradley<br>05/05/2022 | Homogenous                         |                   |               |                   |
| 1342711<br>01-RM-C                       | Roofing Material             | Green<br>Non-Fibrous               | PLM 4% Cellulose  | PLM 96% Other | PLM None Detected |
| Layer-1 Analyst: I<br>Date Analyzed :    | Dawson Bradley<br>05/05/2022 | Homogenous                         |                   |               |                   |
| 1342711<br>01-RM-C                       | Roofing Material             | Black<br>Fibrous                   | PLM 99% Cellulose | PLM 1% Other  | PLM None Detected |
| Layer-2 Analyst: I<br>Date Analyzed :    | Dawson Bradley<br>05/05/2022 | Homogenous                         |                   |               |                   |





## Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

1342717

03-WG-C

Date Analyzed:

Layer Not Analyzed

Layer-1 Analyst: Dawson Bradley

05/05/2022

1117 Cobb Ave, Kalamazoo

**ETC Job**: 247738

Client Project: N/A

**Date Collected**: 04/29/2022 **Date Received**: 05/02/2022

Sample Description **Appearance** % Fibrous % Non-Fibrous % Asbestos 1342712 Gray Window Glaze PLM 2% Cellulose PLM 98% Other PLM None Detected 02-WG-A Non-Fibrous Homogenous Layer-1 Analyst: Dawson Bradley Date Analyzed : 05/05/2022 1342713 Grav Window Glaze PLM 2% Cellulose PLM 98% Other PLM None Detected 02-WG-B Non-Fibrous Homogenous Layer-1 Analyst: Dawson Bradley Date Analyzed: 05/05/2022 1342714 Window Glaze Gray PLM 2% Cellulose PI M 98% Other PLM None Detected 02-WG-C Non-Fibrous Homogenous Layer-1 Analyst: Dawson Bradley Date Analyzed: 05/05/2022 1342715 Gray Window Glaze PLM 3% Cellulose PLM 95% Other PLM 2% Chrysotile 03-WG-A Non-Fibrous Homogenous Layer-1 Analyst: Dawson Bradley Date Analyzed: 05/05/2022 1342716 Positive Stop 03-WG-B Layer-1 Analyst: Dawson Bradley Date Analyzed: 05/05/2022 Layer Not Analyzed

Positive Stop





# Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

Layer-1 Analyst: Dawson Bradley Date Analyzed : 05/05/2022

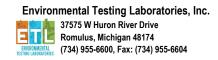
1117 Cobb Ave, Kalamazoo

**ETC Job**: 247738

Client Project: N/A

| Sample                             | Description                    | Appearance                        | % Fibrous         | % Non-Fibrous | % Asbestos        |
|------------------------------------|--------------------------------|-----------------------------------|-------------------|---------------|-------------------|
| 1342718<br>04-TS-A                 | Transite                       | Gray<br>Non-Fibrous<br>Homogenous | PLM 2% Cellulose  | PLM 90% Other | PLM 8% Chrysotile |
| Layer-1 Analyst<br>Date Analyzed : | : Dawson Bradley<br>05/05/2022 |                                   |                   |               |                   |
| 1342719<br>04-TS-B                 |                                | Positive Stop                     |                   |               |                   |
| Layer-1 Analyst<br>Date Analyzed : | : Dawson Bradley<br>05/05/2022 |                                   |                   |               |                   |
| Layer Not Anal                     | yzed                           |                                   |                   |               |                   |
| 1342720<br>04-TS-C                 |                                | Positive Stop                     |                   |               |                   |
| Layer-1 Analyst<br>Date Analyzed : | : Dawson Bradley<br>05/05/2022 |                                   |                   |               |                   |
| Layer Not Anal                     | yzed                           |                                   |                   |               |                   |
| 1342721<br>05-VP-A                 | Vapor Paper                    | Black<br>Fibrous                  | PLM 99% Cellulose | PLM 1% Other  | PLM None Detected |
| Layer-1 Analyst<br>Date Analyzed : | : Dawson Bradley<br>05/05/2022 | Homogenous                        |                   |               |                   |
| 1342722<br>05-VP-B                 | Vapor Paper                    | Black<br>Fibrous                  | PLM 99% Cellulose | PLM 1% Other  | PLM None Detected |
| Layer-1 Analyst<br>Date Analyzed : | : Dawson Bradley<br>05/05/2022 | Homogenous                        |                   |               |                   |
| 1342723<br>05-VP-C                 | Vapor Paper                    | Black<br>Fibrous                  | PLM 99% Cellulose | PLM 1% Other  | PLM None Detected |
| I 4 A                              | D                              | Homogenous                        |                   |               |                   |





# Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

Date Analyzed: 05/05/2022

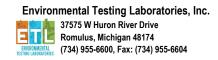
1117 Cobb Ave, Kalamazoo

**ETC Job**: 247738

Client Project: N/A

| Sample                                 | Description                  | Appearance                     | % Fibrous         | % Non-Fibrous | % Asbestos        |
|--|------------------------------|--------------------------------|-------------------|---------------|-------------------|
| 1342724<br>06-VP-A                     | Vapor Paper                  | Black<br>Fibrous               | PLM 99% Cellulose | PLM 1% Other  | PLM None Detected |
| Layer-1 Analyst:<br>Date Analyzed :    | Dawson Bradley<br>05/05/2022 | Homogenous                     |                   |               |                   |
| 1342725<br>06-VP-B<br>Layer-1 Analyst: | Vapor Paper  Dawson Bradley  | Black<br>Fibrous<br>Homogenous | PLM 99% Cellulose | PLM 1% Other  | PLM None Detected |
| Date Analyzed:                         | 05/05/2022                   |                                |                   |               |                   |
| 1342726<br>06-VP-C                     | Vapor Paper                  | Black<br>Fibrous               | PLM 99% Cellulose | PLM 1% Other  | PLM None Detected |
| Layer-1 Analyst:<br>Date Analyzed :    | Dawson Bradley<br>05/05/2022 | Homogenous                     |                   |               |                   |
| 1342727<br>07-FS-A                     | Floor Sheeting Debris        | Gray<br>Non-Fibrous            | PLM 40% Cellulose | PLM 60% Other | PLM None Detected |
| Layer-1 Analyst:<br>Date Analyzed:     | Dawson Bradley<br>05/05/2022 | Homogenous                     |                   |               |                   |
| 1342728<br>07-FS-B                     | Floor Sheeting Debris        | Gray<br>Non-Fibrous            | PLM 40% Cellulose | PLM 60% Other | PLM None Detected |
| Layer-1 Analyst:<br>Date Analyzed :    | Dawson Bradley<br>05/05/2022 | Homogenous                     |                   |               |                   |
| 1342729<br>07-FS-C                     | Floor Sheeting Debris        | Gray<br>Non-Fibrous            | PLM 40% Cellulose | PLM 60% Other | PLM None Detected |
| Layer-1 Analyst:                       | Dawson Bradley               | Homogenous                     |                   |               |                   |





# Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

05/05/2022

Date Analyzed:

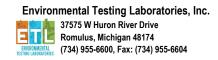
1117 Cobb Ave, Kalamazoo

**ETC Job**: 247738

Client Project: N/A

| Sample   | Description                                    | Appearance                         | % Fibrous        | % Non-Fibrous | % Asbestos        |
|--|--|------------------------------------|------------------|---------------|-------------------|
| 1342730<br>08-WB-A<br>Layer-1 Analyst<br>Date Analyzed : | Wallboard<br>: Dawson Bradley<br>05/05/2022    | White<br>Non-Fibrous<br>Homogenous | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |
| 1342731<br>08-WB-B<br>Layer-1 Analyst<br>Date Analyzed : | Wallboard<br>: Dawson Bradley<br>05/05/2022    | White<br>Non-Fibrous<br>Homogenous | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |
| 1342732<br>08-WB-C<br>Layer-1 Analyst<br>Date Analyzed : | Wallboard<br>: Dawson Bradley<br>05/05/2022    | White<br>Non-Fibrous<br>Homogenous | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |
| 1342733<br>09-BM-A<br>Layer-1 Analyst<br>Date Analyzed : | Brick Mortar  Dawson Bradley 05/05/2022        | Gray<br>Non-Fibrous<br>Homogenous  | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |
| 1342734<br>09-BM-B<br>Layer-1 Analyst<br>Date Analyzed : | Brick Mortar<br>: Dawson Bradley<br>05/05/2022 | Gray<br>Non-Fibrous<br>Homogenous  | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |
| 1342735<br>09-BM-C<br>Layer-1 Analyst:                   | Brick Mortar<br>: Dawson Bradley               | Gray<br>Non-Fibrous<br>Homogenous  | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |





# Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

Date Analyzed: 05/05/2022

1117 Cobb Ave, Kalamazoo

**ETC Job**: 247738

Client Project: N/A

| Sample                              | Description                  | Appearance                        | % Fibrous        | % Non-Fibrous | % Asbestos        |
|-------------------------------------|------------------------------|-----------------------------------|------------------|---------------|-------------------|
| 1342736<br>10-CC-A                  | Concrete Chip                | Gray<br>Non-Fibrous<br>Homogenous | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |
| Date Analyzed :                     | Dawson Bradley<br>05/05/2022 |                                   |                  |               |                   |
| 1342737<br>10-CC-B                  | Concrete Chip                | Gray<br>Non-Fibrous               | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |
| Layer-1 Analyst:<br>Date Analyzed : | Dawson Bradley<br>05/05/2022 | Homogenous                        |                  |               |                   |
| 1342738<br>10-CC-C                  | Concrete Chip                | Gray<br>Non-Fibrous               | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |
| Layer-1 Analyst:<br>Date Analyzed : | Dawson Bradley<br>05/05/2022 | Homogenous                        |                  |               |                   |
| 1342739<br>11-EC-A                  | Exterior Caulk               | Gray<br>Non-Fibrous               | PLM 2% Cellulose | PLM 98% Other | PLM None Detected |
| Layer-1 Analyst:<br>Date Analyzed : | Dawson Bradley<br>05/05/2022 | Homogenous                        |                  |               |                   |
| 1342740<br>11-EC-B                  | Exterior Caulk               | Gray<br>Non-Fibrous               | PLM 2% Cellulose | PLM 98% Other | PLM None Detected |
| Layer-1 Analyst:<br>Date Analyzed : | Dawson Bradley<br>05/05/2022 | Homogenous                        |                  |               |                   |
| 1342741<br>11-EC-C                  | Exterior Caulk               | Gray<br>Non-Fibrous               | PLM 2% Cellulose | PLM 98% Other | PLM None Detected |
| Layer-1 Analyst:                    | Dawson Bradley               | Homogenous                        |                  |               |                   |



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

Description

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

Sample

1117 Cobb Ave, Kalamazoo

**ETC Job:** 247738

Client Project : N/A

 $\textbf{Date Collected}: \ 04/29/2022$ 

**Date Received**: 05/02/2022

% Non-Fibrous

**Appearance** 

Analyst:

% Fibrous

Lab Supervisor/Other Signatory

Jessica Dilutti

Dawson Bradley

Don B

% Asbestos

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)

### **ENVIRONMENTAL TESTING LABORATORIES, INC**



38900 Huron River Drive Romulus, Michigan 48174 (734) 955-6600 Fax: (734) 992-2261

## Bulk Asbestos Chain of Custody

www.2etl.com

ETL Project #: 7117734

|                     |                              |  |                                      | <u> </u>   |
|---------------------|------------------------------|--|--------------------------------------|------------|
| Client:             | Atlas Technical              | Contact: Rob Smith   | Project<br>-Location/name:           |            |
|                     | Consultants                  | Phone: 248-669-5140  | 1117 COBB AVE, KALAM                 | 4AZOO      |
| Address:            | 46555 Humboldt Dr. Ste.      | Fax: 248-669-5147  |                                      |            |
|                     | 100 Novi, MI 48377           | E-mail:  | Client Project #:                    |            |
| Please Provide      | e Results: Email - F         | ax □ Verbal □ Other  | Date Sampled: 4.29.22                |            |
| Turnarou            | nd Time (TAT):   RUS         | H □ Same Day □ 24 hr □ 48 hr □ S   | Standard (3-5 days) X Other 72 hours | s          |
|                     |                              | PLM Instructions<br>(Check all that apply)   |                                      |            |
| PLM EPA60           | 0/R-93/116, 1993 (Standa     | ard method)  | X Stop at 1st Positive -             |            |
| Point Counting      | ı: □ 400 Points* □ NYSD      | OOH ELAP 198.1, 2002*  | Clearly mark Homogenous Group        |            |
| ☐ Gravimetric       | Reduction* □ NYSDOH E        | LAP 198.6, 2010*   |                                      |            |
| □ PLM Non-Bi        | uilding Material (Dust, Wip  | pe, Tape)  | ☐ Soil or Vermiculite Analysis*      |            |
| * Additional charg  | ne and turnaround may be red | quired   |                                      |            |
| Lab ID              | Sample ID                    | Material Description   | Sample Location                      | Quantity   |
| 709 710 71          | 1-RM-A,B,C                   | Roofing material - garage  | EA-5                                 | 550 SF     |
| 7127137             | 714 2-WG-A,B,C               | Window glaze - multi-pane garage door windows, white                                       | EA-1                                 | 6 windows  |
| 715 716 7           | 7/7 3-WG-A,B,C               | Window glaze- multi-pane windows (on exterior and stack of windows in 2nd floor of garage) | EA-1,2,3,4, FS-1,2                   | 14 windows |
| 7187197             | 4-TS-A,B,C                   | Transite siding  | EA-3                                 | 330 SF     |
| 721 722 -           | 723 5-VP-A,B,C               | Vapor paper - under transite siding - black  | EA-3                                 | 330 SF     |
| 727 725 7           | 726 6-VP-A,B,C               | Vapor paper - under transite siding seams  | EA-3                                 | 110 SF     |
| 727 728 7           | 729 7-FS-A,B,C               | Floor sheeting debris, white on work bench   | FS-1                                 | 5 SF       |
| 730731              | 732 8-WB-A,B,C               | Wallboard - on wall and ceiling  | FS-1                                 | 40 SF      |
| 733734              | 735 9-вм-а,в,с               | Brick mortar - CMU block foundation  | EA-2,3,4                             | 210 SF     |
| 736 737             | 738 10-CC-A,B,C              | Concrete chip-poured garage floor  | FS-1                                 | 490 SF     |
| 739 740             | 74 11-EC-A,B,C               | Exterior caulk - white, on wood siding, around windows, roofline                           | EA-1,2,3,4                           | 120 LF     |
|                     |                              |  | Date Tir                             | me         |
| Relinquished (Name  | /Organization): An           | ndrew DeLodder Atlas   | 4.50                                 | am/pm      |
| Received (Name/ETI  | L):                          | mily Noting  | 5/2/22 8:0                           | am/m       |
| Sample Login (Name  | e/ETL):                      | J LYWU   | 5.2.22 10                            | am/pm      |
| Stereoscopical/Samp | ble Analysis (Name/ETL)      | In from  | 5/5/24 1:34                          | am/em      |
| Results (Name/ETL): |                              | In Des   | 5/5/22 1:34                          | ( am/gm)   |
| QA/QC Review (Nam   | ne/ETL):                     | LINI   | 5.5.22 134                           | am/pm      |
| Point Count ALL PL  |                              |  | 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

# ATTACHMENT B PHOTOGRAPHS



View of the garage located at 1117 Cobb Avenue (EA-1)



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



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



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



View of the roof (EA-5)



View of the garage interior (FS-1)



View of the garage attic (FS-2)





Atlas Technical Consultants

2650 Horizon Drive SE, Suite 11 Grand Rapids, Michigan 49546

**Phone +1 616 698 3131** Fax +1 616 698 1922

| Client Name:                             | City of Kalamazoo                             |
|--|---|
| Project Name:                            | Residential Garage Asbestos Survey            |
| Project Number:                          | 188BS22300                                    |
| Project Site Address (Subject Property): | 1302 Lay Boulevard, Kalamazoo, MI 49001       |
| Parcel Number:                           | 06-26-131-008                                 |
| Date of Site Visit:                      | 4/29/2022                                     |
| Asbestos Inspection Performed by:        | Andrew DeLodder (A48677)                      |
| Asbestos Inspector's Signature:          | Kndrew De Sodder                              |
| Areas Not Accessible:                    | All areas accessible                          |
| Number of Floors:                        | one approximately 390 square foot (SF) garage |
| Asbestos Present (Yes/No/Other):         | No  |

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 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<br>CATEGORY |
|-----|----------|----------------|-----------|--------|--------------------|
|     | N        | lo Asbestos Id | lentified |        |                    |

The purpose of this inspection was to task an accredited asbestos inspector to complete a predemolition 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 material   | FS-1       | ND – All Layers |
| 2-EC-A,B,C | Exterior caulk, reddish-brown – on aluminum siding, around window frames | EA 1,2,3,4 | ND              |
| 3-EC-A,B,C | Exterior caulk, white – around window frames                             | EA 2,4     | ND              |
| 4-EC-A,B,C | Exterior caulk, white – on wood siding                                   | EA 1,2,3,4 | ND              |
| 5-CC-A,B,C | Concrete chip – floor  | FS-1       | ND              |
| 6-CA-A,B,C | Construction adhesive – aluminum siding/fiber board backing              | EA 1-4     | ND              |
| 7-FB-A,B,C | Fiber board – backing material for aluminum siding                       | EA 1-4     | ND              |

ND = No asbestos detected, NA = Not applicable, 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<br>QUANTITY |
|---|----------|-------------------------|
| Misc. Items (glue, solvents, cleaners, etc.)          | FS-1     | 4                       |
| Air Conditioners/Refrigerators/Freezers/Dehumidifiers | FS-1     | 2                       |
| Automobile/Lawn Mower/Snow Blower                     | FS-1     | 1                       |
| Paint Cans  | FS-1     | 3                       |

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

Table IV Functional Space/ Exterior Area Designations

| DESCRIPTION                | DESIGNATION |  |  |  |  |
|----------------------------|-------------|--|--|--|--|
| Interior Functional Spaces |             |  |  |  |  |
| Garage Interior            | FS-1        |  |  |  |  |
| Exterior Areas             |             |  |  |  |  |
| Garage front               | EA-1        |  |  |  |  |
| Garage left side           | EA-2        |  |  |  |  |
| Garage rear                | EA-3        |  |  |  |  |
| Garage right side          | EA-4        |  |  |  |  |
| Garage 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 (616) 698-3131.

# 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**: 247737

Client Project: N/A

**Report Date:** 5/5/2022

Attention: Robert Smith

Project Location: 1302 Lay Blvd, Kalamazoo

| Lab Sample Number | Client Sample Number | Sample Type | Completed  |
|-------------------|----------------------|-------------|------------|
| 1342688           | 1-RM-A               | Asbestos    | 05/05/2022 |
| 1342689           | 1-RM-B               | Asbestos    | 05/05/2022 |
| 1342690           | 1-RM-C               | Asbestos    | 05/05/2022 |
| 1342691           | 2-EC-A               | Asbestos    | 05/05/2022 |
| 1342692           | 2-EC-B               | Asbestos    | 05/05/2022 |
| 1342693           | 2-EC-C               | Asbestos    | 05/05/2022 |
| 1342694           | 3-EC-A               | Asbestos    | 05/05/2022 |
| 1342695           | 3-EC-B               | Asbestos    | 05/05/2022 |
| 1342696           | 3-EC-C               | Asbestos    | 05/05/2022 |
| 1342697           | 4-EC-A               | Asbestos    | 05/05/2022 |
| 1342698           | 4-EC-B               | Asbestos    | 05/05/2022 |
| 1342699           | 4-EC-C               | Asbestos    | 05/05/2022 |
| 1342700           | 5-CC-A               | Asbestos    | 05/05/2022 |
| 1342701           | 5-CC-B               | Asbestos    | 05/05/2022 |
| 1342702           | 5-CC-C               | Asbestos    | 05/05/2022 |
| 1342703           | 6-CA-A               | Asbestos    | 05/05/2022 |

| <br>Lab Sample Number | Client Sample Number | Sample Type | Completed  |
|-----------------------|----------------------|-------------|------------|
| 1342704               | 6-CA-B               | Asbestos    | 05/05/2022 |
| 1342705               | 6-CA-C               | Asbestos    | 05/05/2022 |
| 1342706               | 7-FB-A               | Asbestos    | 05/05/2022 |
| 1342707               | 7-FB-B               | Asbestos    | 05/05/2022 |
| 1342708               | 7-FB-C               | Asbestos    | 05/05/2022 |

Reviewed by:

Emily North

**Emily Nowacki** 

Method Sample

PLM 27

**Summary** 

Layer

Mastic





# Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

Client Project: N/A

46555 Humboldt Dr. Suite 100

**Date Collected**: 04/29/2022

**ETC Job:** 247737

Novi, Michigan 48377

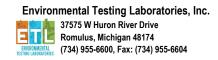
Date Received: 05/02/2022

Location:

1302 Lay Blvd, Kalamazoo

| Sample   | Description                                | Appearance                         | % Fibrous        | % Non-Fibrous | % Asbestos        |
|--|--|------------------------------------|------------------|---------------|-------------------|
| 1342688<br>1-RM-A<br>Layer-1 Analyst:<br>Date Analyzed : | Roofing Material  Dave Cousino 05/05/2022  | Gray<br>Non-Fibrous<br>Homogenous  | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |
| 1342688<br>1-RM-A<br>_ayer-2 Analyst:<br>Date Analyzed : | Roofing Material  Dave Cousino  05/05/2022 | Black<br>Non-Fibrous<br>Homogenous | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |
| 1342688<br>1-RM-A<br>Layer-3 Analyst:<br>Date Analyzed : | Roofing Material  Dave Cousino 05/05/2022  | Black<br>Non-Fibrous<br>Homogenous | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |
| 1342689<br>1-RM-B<br>Layer-1 Analyst:<br>Date Analyzed : | Roofing Material  Dave Cousino 05/05/2022  | Gray<br>Non-Fibrous<br>Homogenous  | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |
| 1342689<br>1-RM-B<br>_ayer-2 Analyst:<br>Date Analyzed : | Roofing Material  Dave Cousino 05/05/2022  | Black<br>Non-Fibrous<br>Homogenous | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |
| 1342689<br>1-RM-B<br>Layer-3 Analyst:<br>Date Analyzed : | Roofing Material  Dave Cousino 05/05/2022  | Black<br>Non-Fibrous<br>Homogenous | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |





# Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

**Date Collected**: 04/29/2022 **Date Received**: 05/02/2022

**ETC Job:** 247737

Location:

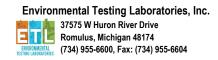
Date Analyzed:

05/05/2022

1302 Lay Blvd, Kalamazoo

|  |   | _                                      |                  |               |                   |
|--|---|--|------------------|---------------|-------------------|
| Sample   | Description                                   | Appearance                             | % Fibrous        | % Non-Fibrous | % Asbestos        |
| 1342690<br>1-RM-C  | Roofing Material                              | Gray<br>Non-Fibrous                    | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |
| Layer-1 Analyst: Date Analyzed :                           | ave Cousino<br>05/05/2022                     | Homogenous                             |                  |               |                   |
| 1342690<br>1-RM-C<br>Layer-2 Analyst: Date Analyzed :      | Roofing Material<br>ave Cousino<br>05/05/2022 | Black<br>Non-Fibrous<br>Homogenous     | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |
| 1342690<br>1-RM-C<br>Layer-3 Analyst: D<br>Date Analyzed : | Roofing Material<br>ave Cousino<br>05/05/2022 | Black<br>Non-Fibrous<br>Homogenous     | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |
| 1342691<br>2-EC-A<br>Analyst: Dave Cou<br>Date Analyzed :  | Exterior Caulk<br>sino<br>05/05/2022          | Red/Brown<br>Non-Fibrous<br>Homogenous | PLM 2% Cellulose | PLM 98% Other | PLM None Detected |
| 1342692<br>2-EC-B<br>Analyst: Dave Cou<br>Date Analyzed :  | Exterior Caulk<br>sino<br>05/05/2022          | Red/Brown<br>Non-Fibrous<br>Homogenous | PLM 2% Cellulose | PLM 98% Other | PLM None Detected |
| 1342693<br>2-EC-C<br>Analyst: Dave Cou                     |   | Red/Brown<br>Non-Fibrous<br>Homogenous | PLM 2% Cellulose | PLM 98% Other | PLM None Detected |





ETC Job: 247737

**Date Collected:** 04/29/2022

Date Received: 05/02/2022

# Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

Client Project: N/A 46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

1302 Lay Blvd, Kalamazoo

| Sample  | Description    | Appearance                         | % Fibrous        | % Non-Fibrous | % Asbestos        |
|---|----------------|------------------------------------|------------------|---------------|-------------------|
| 1342694<br>3-EC-A                                       | Exterior Caulk | White<br>Non-Fibrous               | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |
| Analyst: Dave C<br>Date Analyzed :                      |                | Homogenous                         |                  |               |                   |
| 1342695<br>3-EC-B<br>Analyst: Dave C<br>Date Analyzed : |                | White<br>Non-Fibrous<br>Homogenous | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |
| 1342696<br>3-EC-C<br>Analyst: Dave C<br>Date Analyzed : |                | White<br>Non-Fibrous<br>Homogenous | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |
| 1342697<br>4-EC-A<br>Analyst: Dave C<br>Date Analyzed : |                | White<br>Non-Fibrous<br>Homogenous | PLM 2% Cellulose | PLM 98% Other | PLM None Detected |
| 1342698<br>4-EC-B<br>Analyst: Dave C<br>Date Analyzed : |                | White<br>Non-Fibrous<br>Homogenous | PLM 2% Cellulose | PLM 98% Other | PLM None Detected |
| 1342699<br>4-EC-C<br>Analyst: Dave C<br>Date Analyzed : |                | White<br>Non-Fibrous<br>Homogenous | PLM 2% Cellulose | PLM 98% Other | PLM None Detected |





# Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

Date Analyzed: 05/05/2022

1302 Lay Blvd, Kalamazoo

**ETC Job**: 247737

Client Project: N/A

**Date Collected**: 04/29/2022

**Date Received**: 05/02/2022

| Sample                                | Description           | Appearance                        | % Fibrous        | % Non-Fibrous | % Asbestos        |
|---------------------------------------|-----------------------|-----------------------------------|------------------|---------------|-------------------|
| 1342700<br>5-CC-A<br>Analyst: Dave Co | Concrete chip         | Gray<br>Non-Fibrous<br>Homogenous | PLM 2% Cellulose | PLM 98% Other | PLM None Detected |
| Date Analyzed :                       | 05/05/2022            |                                   |                  |               |                   |
| 1342701<br>5-CC-B                     | Concrete chip         | Gray<br>Non-Fibrous<br>Homogenous | PLM 2% Cellulose | PLM 98% Other | PLM None Detected |
| Analyst: Dave Co<br>Date Analyzed :   | 05/05/2022            |                                   |                  |               |                   |
| 1342702<br>5-CC-C                     | Concrete chip         | Gray<br>Non-Fibrous               | PLM 2% Cellulose | PLM 98% Other | PLM None Detected |
| Analyst: Dave Co<br>Date Analyzed :   | ousino<br>05/05/2022  | Homogenous                        |                  |               |                   |
| 1342703<br>6-CA-A                     | Construction adhesive | White<br>Non-Fibrous              | PLM 5% Cellulose | PLM 95% Other | PLM None Detected |
| Analyst: Dave Co<br>Date Analyzed :   | ousino<br>05/05/2022  | Homogenous                        |                  |               |                   |
| 1342704<br>6-CA-B                     | Construction adhesive | White<br>Non-Fibrous              | PLM 5% Cellulose | PLM 95% Other | PLM None Detected |
| Analyst: Dave Co<br>Date Analyzed :   | ousino<br>05/05/2022  | Homogenous                        |                  |               |                   |
| 1342705<br>6-CA-C                     | Construction adhesive | White<br>Non-Fibrous              | PLM 5% Cellulose | PLM 95% Other | PLM None Detected |
| Analyst: Dave Co                      | pusino                | Homogenous                        |                  |               |                   |





## Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

1302 Lay Blvd, Kalamazoo

**ETC Job**: 247737

Client Project : N/A

 $\textbf{Date Collected}: \ 04/29/2022$ 

**Date Received**: 05/02/2022

| Sample                             | Description | Appearance                   | % Fibrous         | % Non-Fibrous | % Asbestos        |
|------------------------------------|-------------|------------------------------|-------------------|---------------|-------------------|
| 1342706<br>7-FB-A                  | Fiber board | Tan<br>Fibrous               | PLM 85% Cellulose | PLM 15% Other | PLM None Detected |
| Analyst: Dave C<br>Date Analyzed : |             | Homogenous                   |                   |               |                   |
| 1342707<br>7-FB-B                  | Fiber board | Tan<br>Fibrous<br>Homogenous | PLM 85% Cellulose | PLM 15% Other | PLM None Detected |
| Analyst: Dave C<br>Date Analyzed : |             | Homogeneds                   |                   |               |                   |
| 1342708<br>7-FB-C                  | Fiber board | Tan<br>Fibrous<br>Homogenous | PLM 85% Cellulose | PLM 15% Other | PLM None Detected |

Lan hoorsker

Analyst: Dave Cousino
Date Analyzed: 05/05/2022

Analyst:

Lab Supervisor/Other Signatory

Dave Cousino

Dave Cousino

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).

### **ENVIRONMENTAL TESTING LABORATORIES, INC**



38900 HURON RIVER DRIVE ROMULUS, MICHIGAN 48174 (734) 955-6600 Fax: (734) 992-2261

### **Bulk Asbestos Chain of Custody**

|                     | www.2etl.com                |  | ETL Project# 2/17737                    |   |  |
|---------------------|-----------------------------|--|---|---|--|
| Client:             | Atlas Technical             | Contact: Rob Smith   | Project                                 |   |  |
|                     | Consultants                 | Phone: 248-669-5140  | Location/name: 1302 Lay BLVD, Kalamazoo |   |  |
| Address:            | 46555 Humboldt Dr. Ste.     | Fax: 248-669-5147  | 1                                       |   |  |
| 100 Novi, MI 48377  |                             | E-mail:  | Client Project #:                       |   |  |
| Please Provide      | Results: Email - F          | Date Sampled: 4.29.22  |   |   |  |
| Turnarour           | nd Time (TAT): 🗆 RUS        | H ☐ Same Day ☐ 24 hr ☐ 48 hr ☐ S   | Standard (3-5 days) X Other 72 hours    | <u>s</u>                                    |  |
|                     | 70.00                       | PLM Instructions (Check all that apply)                                    |   |   |  |
| PLM EPA60           | 0/R-93/116, 1993 (Standa    |  | X Stop at 1st Positive -                |   |  |
| Point Counting      | : □ 400 Points* □ NYSD      | Clearly mark Homogenous Group  |   |   |  |
|                     | Reduction* □ NYSDOH E       |  |   |   |  |
| □ PLM Non-Bu        | uilding Material (Dust, Wip | pe, Tape)  | ☐ Soil or Vermiculite Analysis*         |   |  |
| * Additional charg  | e and turnaround may be red | quired   |   |   |  |
| Lab ID              | Sample ID                   | Material Description   | Sample Location                         | Quantity                                    |  |
| 688 689 6           | 1-RM-A,B,C                  | Roofing material - garage, fallen into FS-1                                | FS-1                                    | 450 SF                                      |  |
| 6916926             | 93 2-EC-A,B,C               | Exterior caulk - reddish brown, around window frames, on aluminum siding   | EA-1,2,3,4                              | 75 LF                                       |  |
| 694 695 6           | 96 3-EC-A,B,C               | Exterior caulk - white, around window frames                               | EA-2,4                                  | 30 LF                                       |  |
| 6976986             | 90 4-EC-A,B,C               | Exterior caulk - white, on wood siding                                     | EA-1,2,3,4                              | 60 LF                                       |  |
| 700 701             | 702 5-CC-A,B,C              | Concrete chip - poured concrete floor                                      | FS-1                                    | 390 SF                                      |  |
| 703 704 7           | 709 6-CA-A,B,C              | Construction adhesive, holds the aluminum siding to the fiberboard backing | EA-1,2,3,4                              | 800 SF                                      |  |
| 706 707             | 70B 7-FB-A,B,C              | Fiber board - backing material for the aluminum sding                      | EA-1,2,3,4                              | 800 SF                                      |  |
|                     |                             |  |   |   |  |
| / / /               |                             |  |   | Sec. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10 |  |
| , ,                 |                             |  |   |   |  |
| /                   |                             |  |   |   |  |
|                     | 1                           |  | Date Tim                                | ne  |  |
| Relinquished (Name/ | Organization): Ar           | idrew DeLoddo V Atlas  | 4.30                                    | am/pm                                       |  |
| Received (Name/ETL  | .):                         | mily N-C.  | 5/2/22 8:00                             | am/pm                                       |  |
| Sample Login (Name  | /ETL):                      | J XX CMM   | 5.3.22 097                              | 5 am/pm                                     |  |
| Stereoscopical/Samp | le Analysis (Name/ETL)      | Lava Cousina   | 5/5/22 7:30                             | ₫∄/pm                                       |  |
| Results (Name/ETL): | Y                           | Tavil Coursino   | 5/5/22 7:30                             | <b>€</b> pm                                 |  |
| QA/QC Review (Nam   | e/ETL):                     | 5.5.22 105   | 5 am/pm                                 |   |  |
| Point Count ALL PLA |                             |  | Remarks                                 |   |  |

<sup>\*\*</sup>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

# ATTACHMENT B PHOTOGRAPHS

1302 LAY BOULEVARD KALAMAZOO, MI 49001



View of the garage located at 1302 Lay Boulevard (EA-1)



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

1302 LAY BOULEVARD KALAMAZOO, MI 49001



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



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

1302 LAY BOULEVARD KALAMAZOO, MI 49001



View of the roof (EA-5) and garage interior (FS-1)





Atlas Technical Consultants

2650 Horizon Drive SE, Suite 11 Grand Rapids, Michigan 49546

**Phone** +1 616 698 3131 Fax +1 616 698 1922

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|--|---|
| Client Name:                             | City of Kalamazoo                             |
| Project Name:                            | Residential Asbestos Survey                   |
| Project Number:                          | 188BS22300                                    |
| Project Site Address (Subject Property): | 1509 N. Park Street, Kalamazoo, MI 49007      |
| Parcel Number:                           | 06-10-351-172                                 |
| Date of Site Visit:                      | 5/11/2022                                     |
| Asbestos Inspection Performed by:        | Andrew DeLodder (A48677)                      |
| Asbestos Inspector's Signature:          | Andrew DeSodder                               |
| Areas Not Accessible:                    | All areas accessible                          |
| Number of Floors:                        | one approximately 400 square foot (SF) garage |
| 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 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<br>CATEGORY |
|------------|---------------------|------------|-----------|---------------|--------------------|
| 4-WG-A,B,C | Window glaze, white | EA 1,2,3,4 | 6 Windows | 2% Chrysotile | Category<br>II     |

The purpose of this inspection was to task an accredited asbestos inspector to complete a predemolition 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 material - Garage Roof | EA-5,FS-1   | ND – All Layers |
| 2-RM-A,B,C  | Roofing Materials – Dog House  | FS-1        | ND              |
| 3-RM-A,B,C  | Stack of Shingles in Garage    | FS-1        | ND              |
| 4-WG-A,B,C  | Window Glaze - White           | EA -1,2,3,4 | 2% Chrysotile   |
| 5-WB-A,B,C  | Wallboard Debris               | FS-1        | ND – All Layers |
| 6–CC- A,B,C | Concrete Chip (foundation)     | EA -1,2,3,4 | ND              |

| HA/ID#     | /ID# MATERIAL                  |      | RESULT |
|------------|--------------------------------|------|--------|
| 7-CC-A,B,C | Concrete Chip – concrete floor | FS-1 | ND     |
| 8-CC-A,B,C | Concrete Chip – Bag of mortar  | FS-1 | ND     |

ND = No asbestos detected, NA = Not applicable, 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<br>QUANTITY |
|--|----------|-------------------------|
| Misc. Items (glue, solvents, cleaners, etc.) | FS-1     | 7                       |
| Paint Cans                                   | FS-1     | 5                       |
| Automobile/Lawn Mower/Snow Blower            | FS-1     | 2                       |
| Tires  | FS-1     | 2                       |
| TV Screens/Monitors/Electronics              | FS-1     | 1                       |
| Batteries                                    | FS-1     | 1                       |

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

Table IV Functional Space/ Exterior Area Designations

| DESCRIPTION       | DESIGNATION |  |  |
|-------------------|-------------|--|--|
| Interior Function | al Spaces   |  |  |
| Garage Interior   | FS-1        |  |  |
| Exterior Areas    |             |  |  |
| Garage front      | EA-1        |  |  |

| Garage left side  | EA-2 |
|-------------------|------|
| Garage rear       | EA-3 |
| Garage right side | EA-4 |
| Garage 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 (616) 698-3131.

# 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**: 247926

Client Project: 188BS22300

**Report Date:** 5/17/2022

Attention: Robert Smith

Project Location: 1509 N Park St, Kalamazoo

| Lab Sample Number | Client Sample Number | Sample Type | Completed  |
|-------------------|----------------------|-------------|------------|
| 1346820           | 1-RM-A               | Asbestos    | 05/13/2022 |
| 1346821           | 1-RM-B               | Asbestos    | 05/13/2022 |
| 1346822           | 1-RM-C               | Asbestos    | 05/13/2022 |
| 1346823           | 2-RM-A               | Asbestos    | 05/13/2022 |
| 1346824           | 2-RM-B               | Asbestos    | 05/13/2022 |
| 1346825           | 2-RM-C               | Asbestos    | 05/13/2022 |
| 1346826           | 3-RM-A               | Asbestos    | 05/13/2022 |
| 1346827           | 3-RM-B               | Asbestos    | 05/13/2022 |
| 1346828           | 3-RM-C               | Asbestos    | 05/13/2022 |
| 1346829           | 4-WG-A               | Asbestos    | 05/13/2022 |
| 1346830           | 4-WG-B               | Asbestos    | 05/13/2022 |
| 1346831           | 4-WG-C               | Asbestos    | 05/13/2022 |
| 1346832           | 5-WB-A               | Asbestos    | 05/13/2022 |
| 1346833           | 5-WB-B               | Asbestos    | 05/13/2022 |
| 1346834           | 5-WB-C               | Asbestos    | 05/13/2022 |
| 1346835           | 6-CC-A               | Asbestos    | 05/17/2022 |

| Lab Sample Number | Client Sample Number | Sample Type | Completed  |
|-------------------|----------------------|-------------|------------|
| 1346836           | 6-CC-B               | Asbestos    | 05/17/2022 |
| 1346837           | 6-CC-C               | Asbestos    | 05/17/2022 |
| 1346838           | 7-CC-A               | Asbestos    | 05/17/2022 |
| 1346839           | 7-CC-B               | Asbestos    | 05/17/2022 |
| 1346840           | 7-CC-C               | Asbestos    | 05/17/2022 |
| 1346841           | 8-CC-A               | Asbestos    | 05/17/2022 |
| 1346842           | 8-CC-B               | Asbestos    | 05/17/2022 |
| 1346843           | 8-CC-C               | Asbestos    | 05/17/2022 |

Reviewed by:

Emily North

Emily Nowacki

| Method | Sample | Layer | Mastic |
|--------|--------|-------|--------|
| PLM    | 31     |       |        |





## Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

1509 N Park St, Kalamazoo

ETC Job: 247926 Client Project: 188BS22300

**Date Collected**: 05/11/2022 **Date Received**: 05/12/2022

| Sample   | Description   | Appearance                         | % Fibrous         | % Non-Fibrous | % Asbestos        |
|--|---|------------------------------------|-------------------|---------------|-------------------|
| 1346820<br>1-RM-A<br>Layer-1 Analyst: Date Analyzed :      | Roofing Material - Garage Roof                                | Brown<br>Non-Fibrous<br>Homogenous | PLM 10% Cellulose | PLM 90% Other | PLM None Detected |
| 1346820<br>1-RM-A<br>Layer-2 Analyst: .<br>Date Analyzed : | Roofing Material - Garage Roof<br>James Farinas<br>05/13/2022 | Red<br>Non-Fibrous<br>Homogenous   | PLM 10% Cellulose | PLM 90% Other | PLM None Detected |
| 1346820<br>1-RM-A<br>Layer-3 Analyst: ,<br>Date Analyzed : | Roofing Material - Garage Roof<br>James Farinas<br>05/13/2022 | Green<br>Non-Fibrous<br>Homogenous | PLM 10% Cellulose | PLM 90% Other | PLM None Detected |
| 1346821<br>1-RM-B<br>Layer-1 Analyst: Date Analyzed :      | Roofing Material - Garage Roof  James Farinas  05/13/2022     | Brown<br>Non-Fibrous<br>Homogenous | PLM 20% Cellulose | PLM 80% Other | PLM None Detected |
| 1346821<br>1-RM-B<br>Layer-2 Analyst: Date Analyzed :      | Roofing Material - Garage Roof<br>James Farinas<br>05/13/2022 | Red<br>Non-Fibrous<br>Homogenous   | PLM 80% Cellulose | PLM 20% Other | PLM None Detected |
| 1346821<br>1-RM-B<br>Layer-3 Analyst: .<br>Date Analyzed : | Roofing Material - Garage Roof<br>James Farinas<br>05/13/2022 | Green<br>Non-Fibrous<br>Homogenous | PLM 30% Cellulose | PLM 70% Other | PLM None Detected |





## Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

Date Analyzed: 05/13/2022

1509 N Park St, Kalamazoo

ETC Job: 247926 Client Project: 188BS22300

Date Collected: 05/11/2022

**Date Received:** 05/12/2022

| Sample                                  | Description                                  | Appearance                         | % Fibrous         | % Non-Fibrous | % Asbestos        |
|---|--|------------------------------------|-------------------|---------------|-------------------|
| 1346822<br>1-RM-C                       | Roofing Material - Garage Roof               | Brown<br>Non-Fibrous               | PLM 20% Cellulose | PLM 80% Other | PLM None Detected |
| Layer-1 Analyst: J<br>Date Analyzed :   | James Farinas<br>05/13/2022                  | Homogenous                         |                   |               |                   |
| 1346822<br>1-RM-C<br>Layer-2 Analyst: J | Roofing Material - Garage Roof James Farinas | Red<br>Non-Fibrous<br>Homogenous   | PLM 30% Cellulose | PLM 70% Other | PLM None Detected |
| Date Analyzed :                         | 05/13/2022                                   |                                    |                   |               |                   |
| 1346822<br>1-RM-C<br>Layer-3 Analyst: J | Roofing Material - Garage Roof               | Green<br>Non-Fibrous<br>Homogenous | PLM 40% Cellulose | PLM 60% Other | PLM None Detected |
| Date Analyzed :                         | 05/13/2022                                   |                                    |                   |               |                   |
| 1346823<br>2-RM-A                       | Roofing Material - Dog House                 | Brown<br>Non-Fibrous<br>Homogenous | PLM 10% Cellulose | PLM 90% Other | PLM None Detected |
| Layer-1 Analyst: J<br>Date Analyzed :   | o5/13/2022                                   |                                    |                   |               |                   |
| 1346824<br>2-RM-B                       | Roofing Material - Dog House                 | Brown<br>Non-Fibrous               | PLM 5% Cellulose  | PLM 95% Other | PLM None Detected |
| Layer-1 Analyst: J<br>Date Analyzed :   | James Farinas<br>05/13/2022                  | Homogenous                         |                   |               |                   |
| 1346825<br>2-RM-C<br>Layer-1 Analyst: J | Roofing Material - Dog House                 | Brown<br>Non-Fibrous<br>Homogenous | PLM 5% Cellulose  | PLM 95% Other | PLM None Detected |





## Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

4-WG-C

Analyst: James Farinas Date Analyzed: 05/1

Sample Not Analyzed

05/13/2022

1509 N Park St, Kalamazoo

ETC Job: 247926

Client Project: 188BS22300

**Date Collected**: 05/11/2022 **Date Received**: 05/12/2022

Sample Description **Appearance** % Fibrous % Non-Fibrous % Asbestos 1346826 Black Roofing Material - Stack of PLM 5% Cellulose PLM 94% Other PLM None Detected 3-RM-A Shingles in Garage Non-Fibrous PLM 1% Fiberglass Homogenous Layer-1 Analyst: James Farinas Date Analyzed: 05/13/2022 1346827 Black Roofing Material - Stack of PLM 5% Cellulose PLM 95% Other PLM None Detected 3-RM-B Shingles in Garage Non-Fibrous Homogenous Layer-1 Analyst: James Farinas Date Analyzed: 05/13/2022 1346828 Roofing Material - Stack of Black PLM 5% Cellulose PI M 95% Other PLM None Detected 3-RM-C Shingles in Garage Non-Fibrous Homogenous Layer-1 Analyst: James Farinas Date Analyzed: 05/13/2022 1346829 White Window Glaze PLM 1% Cellulose PLM 97% Other PLM 2% Chrysotile 4-WG-A Non-Fibrous Homogenous Layer-1 Analyst: James Farinas Date Analyzed: 05/13/2022 1346830 Positive Stop 4-WG-B Analyst: James Farinas Date Analyzed: 05/13/2022 Sample Not Analyzed 1346831 Positive Stop





ETC Job: 247926

## Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

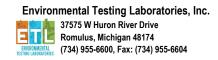
Location:

1509 N Park St, Kalamazoo

Client Project: 188BS22300 **Date Collected:** 05/11/2022 Novi, Michigan 48377 Date Received: 05/12/2022

| Sample   | Description | Appearance                         | % Fibrous         | % Non-Fibrous | % Asbestos        |
|--|-------------|------------------------------------|-------------------|---------------|-------------------|
| 1346832<br>5-WB-A<br>Layer-1 Analyst:<br>Date Analyzed : |             | White<br>Non-Fibrous<br>Homogenous | PLM 5% Cellulose  | PLM 95% Other | PLM None Detected |
| 1346832<br>5-WB-A<br>Layer-2 Analyst:<br>Date Analyzed : |             | White<br>Fibrous<br>Homogenous     | PLM 99% Cellulose | PLM 1% Other  | PLM None Detected |
| 1346833<br>5-WB-B<br>Layer-1 Analyst:<br>Date Analyzed : |             | White<br>Non-Fibrous<br>Homogenous | PLM 5% Cellulose  | PLM 95% Other | PLM None Detected |
| 1346833<br>5-WB-B<br>Layer-2 Analyst:<br>Date Analyzed : |             | White<br>Fibrous<br>Homogenous     | PLM 99% Cellulose | PLM 1% Other  | PLM None Detected |
| 1346834<br>5-WB-C<br>Layer-1 Analyst:<br>Date Analyzed : |             | White<br>Non-Fibrous<br>Homogenous | PLM 5% Cellulose  | PLM 95% Other | PLM None Detected |
| 1346834<br>5-WB-C<br>Layer-2 Analyst:<br>Date Analyzed : |             | White<br>Fibrous<br>Homogenous     | PLM 99% Cellulose | PLM 1% Other  | PLM None Detected |





## Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

Date Analyzed: 05/17/2022

1509 N Park St, Kalamazoo

**ETC Job**: 247926

Client Project: 188BS22300

**Date Collected**: 05/11/2022 **Date Received**: 05/12/2022

| Sample                               | Description            | Appearance                        | % Fibrous        | % Non-Fibrous | % Asbestos        |
|--------------------------------------|------------------------|-----------------------------------|------------------|---------------|-------------------|
| 1346835<br>6-CC-A                    | Concrete Chip          | Gray<br>Non-Fibrous               | PLM 2% Cellulose | PLM 98% Other | PLM None Detected |
| Analyst: Madeline<br>Date Analyzed : | e Palmer<br>05/17/2022 | Homogenous                        |                  |               |                   |
| 1346836<br>6-CC-B                    | Concrete Chip          | Gray<br>Non-Fibrous<br>Homogenous | PLM 2% Cellulose | PLM 98% Other | PLM None Detected |
| Analyst: Madeline<br>Date Analyzed : | e Palmer<br>05/17/2022 | -                                 |                  |               |                   |
| 1346837<br>6-CC-C                    | Concrete Chip          | Gray<br>Non-Fibrous               | PLM 2% Cellulose | PLM 98% Other | PLM None Detected |
| Analyst: Madeline<br>Date Analyzed : | e Palmer<br>05/17/2022 | Homogenous                        |                  |               |                   |
| 1346838<br>7-CC-A                    | Concrete Chip          | Gray<br>Non-Fibrous               | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |
| Analyst: Madeline<br>Date Analyzed : | e Palmer<br>05/17/2022 | Homogenous                        |                  |               |                   |
| 1346839<br>7-CC-B                    | Concrete Chip          | Gray<br>Non-Fibrous               | PLM 3% Cellulose | PLM 97% Other | PLM None Detected |
| Analyst: Madeling<br>Date Analyzed : | e Palmer<br>05/17/2022 | Homogenous                        |                  |               |                   |
| 1346840<br>7-CC-C                    | Concrete Chip          | Gray<br>Non-Fibrous               | PLM 2% Cellulose | PLM 98% Other | PLM None Detected |
| Analyst: Madelin                     | e Palmer               | Homogenous                        |                  |               |                   |





## Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

1509 N Park St. Kalamazoo

ETC Job: 247926

Client Project: 188BS22300

**Date Collected**: 05/11/2022

Date Received: 05/12/2022

| Sample                              | Description   | Appearance          | % Fibrous                                   | % Non-Fibrous | % Asbestos        |  |
|-------------------------------------|---------------|---------------------|---|---------------|-------------------|--|
| 1346841<br>8-CC-A                   | Concrete Chip | Gray<br>Non-Fibrous | PLM 2% Cellulose<br>PLM Trace Other fibrous | PLM 98% Other | PLM None Detected |  |
| Analyst: Madelir<br>Date Analyzed : |               | Homogenous          |   |               |                   |  |
| 1346842<br>8-CC-B                   | Concrete Chip | Gray<br>Non-Fibrous | PLM 2% Cellulose                            | PLM 98% Other | PLM None Detected |  |
| Analyst: Madelir<br>Date Analyzed : |               | Homogenous          |   |               |                   |  |
| 1346843<br>8-CC-C                   | Concrete Chip | Gray<br>Non-Fibrous | PLM 4% Cellulose                            | PLM 96% Other | PLM None Detected |  |
| A I 4 . B 4 I . I'.                 | 5.1           | Homogenous          |   |               |                   |  |

fessica Diluth

Analyst: Madeline Palmer
Date Analyzed: 05/17/2022

Lab Supervisor/Other Signatory

Analyst:

James Farinas

Madeline Palmer

Madeline Palmer

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).



ENVIRONMENT A TESTING LABOR

389 HURON RIVER DRIVE
ROMULUS, MICHIGAN 48174

(734) 955-6600 Fax: (734) 992-2261 www.2etl.com

## **Bulk Asbestos** Chain of Custody

|                         | www.2etl.com            |                     | ETL Project #:            | 47                        | 926  |  |
|-------------------------|-------------------------|---------------------|---------------------------|---------------------------|------|--|
| Client: Atlas Technical |                         | Contact: Rob Smith  | Project<br>Location/name: |                           |      |  |
|                         | Consultants             | Phone: 248-669-5140 |                           | 1509 N Park St, Kalamazoo |      |  |
| Address:                | 46555 Humboldt Dr. Ste. | Fax: 248-669-5147   |                           |                           |      |  |
|                         | 100 Novi, MI 48377      | E-mail:             | Client Project #:         | 1888522                   | 2300 |  |
| Please Prov             | ide Results: Email oF   | ax 🗆 Verbal 🗈 Other | Date Sampled:             | 5.11.22                   | À-   |  |

| Turnaround Time (TAT):   RUSH                            | ☐ Same Day | □ 24 hr      | ☐ 48 hr               | ☐ Standard (3-5 days)         | X Other72 hours |
|--|------------|--------------|-----------------------|-------------------------------|-----------------|
|  |            | PLM Instr    | All the second second |                               |                 |
|  |            | Check all th | iat apply)            |                               |                 |
| PLM EPA600/R-93/116, 1993 (Standar                       | d method)  |              |                       | X Stop at 1st P               | ositive -       |
| Point Counting: ☐ 400 Points* ☐ NYSDOH ELAP 198.1, 2002* |            |              |                       | Clearly mark Homogenous Group |                 |
| ☐ Gravimetric Reduction* ☐ NYSDOH EL                     |            |              | ETHE                  |                               |                 |
| □ PLM Non-Building Material (Dust, Wipe                  | , Tape)    | 1911.0.1     | N RITE                | ☐ Soil or Vermic              | ulite Analysis* |
| Additional charge and turnaround may be requ             | ired       |              |                       |                               |                 |

| Lab ID     | Sample ID             | Material Description                           | Sample Location | Quantity  |
|------------|-----------------------|--|-----------------|-----------|
| 820 821 82 | 1-RM-A,B,C            | Roofing material - garage roof                 | EA-5, FS-1      | 550 SF    |
| 823 824 82 | 26 2-RM-A,B,C         | Roofing material - dog house                   | FS-1            | 20 SF     |
| 826 827 8  | 2 <b>.</b> 3-RM-A,B,C | Roofing material - stack of shingles in garage | FS-1            | 1 bundle  |
| 329 830 83 | 3 4-WG-A,B,C          | Window glaze - white                           | EA-1,2,3,4      | 6 windows |
| 832 933 83 | 5-WB-A,B,C            | Wall board debris                              | FS-1            | 15 SF     |
| 35 976 8   | 37 6-CC-A,B,C         | Concrete chip - concrete foundation            | EA-1,2,3,4      | 140 SF    |
| 638 839 84 | 7-CC-A,B,C            | Concrete chip - poured concrete floor          | FS-1            | 300 SF    |
| 841 842 84 | 3 8-CC-A,B,C          | Concrete chip - bag of solid mortar            | FS-1            | 5 SF      |
|            |                       |  |                 |           |
|            |                       |  |                 |           |
|            |                       |  | ,               |           |
|            |                       |  |                 |           |

| Relinquished (Name/Organization).         |                          | Date      | Time       |
|---|--------------------------|-----------|------------|
| veilinquisited (Name/Organization).       | Andrew DeLodder / Atlas, | 5/14/1903 | am/p       |
| Received (Name/ETL):                      | W/66/                    | 6.17.77   | 0020       |
| Sample Login (Name/ETL):                  | NRM 5                    | 7.4.47    | am/p       |
|   |                          | 913.22    | 1105 am/p  |
| itereoscopical/Sample Analysis (Name/ETL) | Megas Inadeline Falren   | - 12/22   | 12:08      |
| results (Name/ETL)                        | 4 THOUSAND 1 1- 20       | 3/17/22   | ant/pi     |
|   | Jugar Ingelie Jalim      | 5/17/22   | 12:08 am/6 |
| A/QC Review (Name/ETL):                   | * William                | 11.117.77 | 1716 am/p  |

| Special Instructions: 1st Positive Stop; Composite all drywall/joint compound 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 WIT   |   |
| CALLED WIT  | IN THE QUANTITY OF SAMPLES TO BE SHIPPED OR DROPPED OFF |

# ATTACHMENT B PHOTOGRAPHS

1509 N. PARK STREET KALAMAZOO, MI 49007



View of the garage located at 1509 N. Park Street (EA-1) and roof (EA-5)



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

1509 N. PARK STREET KALAMAZOO, MI 49007



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



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





Atlas Technical Consultants

2650 Horizon Drive SE, Suite 11 Grand Rapids, Michigan 49546

**Phone +1 616 698 3131** Fax +1 616 698 1922

| Client Name:                             | City of Kalamazoo                             |
|--|---|
| Project Name:                            | Residential Garage Asbestos Survey            |
| Project Number:                          | 188BS22300                                    |
| Project Site Address (Subject Property): | 1618 N. Park Street, Kalamazoo, MI 49007      |
| Parcel Number:                           | 06-10-322-056                                 |
| Date of Site Visit:                      | 4/29/2022                                     |
| Asbestos Inspection Performed by:        | Andrew DeLodder (A48677)                      |
| Asbestos Inspector's Signature:          | Andrew DeSodder                               |
| Areas Not Accessible:                    | All areas accessible                          |
| Number of Floors:                        | one approximately 400 square foot (SF) garage |
| 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 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<br>CATEGORY |
|------------|---------------------|----------|-----------|---------------|--------------------|
| 3-WG-A,B,C | Window glaze, white | EA 2,3,4 | 3 Windows | 2% Chrysotile | Category<br>II     |

The purpose of this inspection was to task an accredited asbestos inspector to complete a predemolition 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 material                 | FS-1     | ND – All Layers |
| 2-VP-A,B,C | Vapor paper – roll inside garage | FS-1     | ND              |
| 3-WG-A,B,C | Window glaze, white              | EA 2,3,4 | 2% Chrysotile   |
| 4-CC-A,B,C | Concrete chip – floor            | FS-1     | ND              |

**ND** = No asbestos detected, **NA** = Not applicable, **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<br>QUANTITY |
|--|----------|-------------------------|
| Misc. Items (glue, solvents, cleaners, etc.) | FS-1     | 9                       |
| Paint Cans                                   | FS-1     | 3                       |
| Automobile/Lawn Mower/Snow Blower            | FS-1     | 1                       |
| Tire   | FS-1     | 1                       |

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

Table IV Functional Space/ Exterior Area Designations

| DESCRIPTION                | DESIGNATION |  |  |  |  |
|----------------------------|-------------|--|--|--|--|
| Interior Functional Spaces |             |  |  |  |  |
| Garage Interior            | FS-1        |  |  |  |  |
| Exterior Areas             |             |  |  |  |  |
| Garage front               | EA-1        |  |  |  |  |
| Garage left side           | EA-2        |  |  |  |  |
| Garage rear                | EA-3        |  |  |  |  |
| Garage right side          | EA-4        |  |  |  |  |
| Garage 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 <u>need not be removed</u> 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 (616) 698-3131.

# 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**: 247735

Client Project: N/A

**Report Date:** 5/5/2022

Attention: Robert Smith

Project Location: 1618 N Park, Kalamazoo

| Lab Sample Number | Client Sample Number | Sample Type | Completed  |
|-------------------|----------------------|-------------|------------|
| 1342643           | 1-RM-A               | Asbestos    | 05/04/2022 |
| 1342644           | 1-RM-B               | Asbestos    | 05/04/2022 |
| 1342645           | 1-RM-C               | Asbestos    | 05/04/2022 |
| 1342646           | 2-VP-A               | Asbestos    | 05/04/2022 |
| 1342647           | 2-VP-B               | Asbestos    | 05/04/2022 |
| 1342648           | 2-VP-C               | Asbestos    | 05/04/2022 |
| 1342649           | 3-WG-A               | Asbestos    | 05/04/2022 |
| 1342650           | 3-WG-B               | Asbestos    | 05/04/2022 |
| 1342651           | 3-WG-C               | Asbestos    | 05/04/2022 |
| 1342652           | 4-CC-A               | Asbestos    | 05/04/2022 |
| 1342653           | 4-CC-B               | Asbestos    | 05/04/2022 |
| 1342654           | 4-CC-C               | Asbestos    | 05/04/2022 |

Lab Sample Number Client Sample Number Sample Type Completed

Reviewed by:

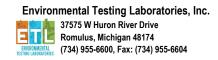
Emily Nowacki

Emily North

Summary

| Method | Sample | Layer | Mastic |
|--------|--------|-------|--------|
| PLM    | 10     | 2     |        |





## Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

Date Analyzed: 05/04/2022

1618 N Park, Kalamazoo

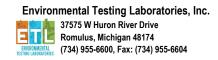
**ETC Job**: 247735

Client Project: N/A

**Date Collected**: 04/29/2022 **Date Received**: 05/02/2022

| Sample   | Description                 | Appearance                         | % Fibrous         | % Non-Fibrous | % Asbestos        |
|--|-----------------------------|------------------------------------|-------------------|---------------|-------------------|
| 1342643<br>1-RM-A<br>Layer-1 Analyst:                        |                             | Black<br>Non-Fibrous<br>Homogenous | PLM 10% Cellulose | PLM 90% Other | PLM None Detected |
| Date Analyzed :  | 05/04/2022                  |                                    |                   |               |                   |
| 1342643<br>1-RM-A  | Paper Backing               | Beige<br>Fibrous                   | PLM 99% Cellulose | PLM 1% Other  | PLM None Detected |
| Layer-2 Analyst:<br>Date Analyzed :                          | James Farinas<br>05/04/2022 | Homogenous                         |                   |               |                   |
| 1342644<br>1-RM-B  | Roofing Material            | Black<br>Non-Fibrous               | PLM 10% Cellulose | PLM 90% Other | PLM None Detected |
| Layer-1 Analyst:<br>Date Analyzed :                          | James Farinas<br>05/04/2022 | Homogenous                         |                   |               |                   |
| 1342645<br>1-RM-C  | Roofing Material            | Black<br>Non-Fibrous               | PLM 10% Cellulose | PLM 90% Other | PLM None Detected |
| _ayer-1 Analyst:<br>Date Analyzed :                          | James Farinas<br>05/04/2022 | Homogenous                         |                   |               |                   |
| 1342645<br>1-RM-C  | Paper Backing               | Beige<br>Fibrous                   | PLM 99% Cellulose | PLM 1% Other  | PLM None Detected |
| Layer-2 Analyst: James Farinas<br>Date Analyzed : 05/04/2022 |                             | Homogenous                         |                   |               |                   |
| Layer-2 Analyst:<br>Date Analyzed :                          |                             |                                    |                   |               |                   |





## Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

**Date Collected**: 04/29/2022 **Date Received**: 05/02/2022

**ETC Job:** 247735

Location:

Date Analyzed:

05/04/2022

1618 N Park, Kalamazoo

| Sample   | Description           | Appearance                         | % Fibrous         | % Non-Fibrous | % Asbestos        |
|--|-----------------------|------------------------------------|-------------------|---------------|-------------------|
| 1342647<br>2-VP-B  | Vapor Paper           | Black<br>Non-Fibrous               | PLM 30% Cellulose | PLM 70% Other | PLM None Detected |
| Layer-1 Analyst:<br>Date Analyzed :                      |                       | Homogenous                         |                   |               |                   |
| 1342648<br>2-VP-C<br>Layer-1 Analyst:<br>Date Analyzed : |                       | Black<br>Non-Fibrous<br>Homogenous | PLM 30% Cellulose | PLM 70% Other | PLM None Detected |
| 1342649<br>3-WG-A<br>Layer-1 Analyst:<br>Date Analyzed : |                       | White<br>Non-Fibrous<br>Homogenous | PLM 1% Cellulose  | PLM 97% Other | PLM 2% Chrysotile |
| 1342650<br>3-WG-B  |                       | Positive Stop                      |                   |               |                   |
| Analyst: James<br>Date Analyzed :                        |                       |                                    |                   |               |                   |
| Sample Not An  | alyzed                |                                    |                   |               |                   |
| 1342651<br>3-WG-C  |                       | Positive Stop                      |                   |               |                   |
| Analyst: James<br>Date Analyzed :                        | Farinas<br>05/04/2022 |                                    |                   |               |                   |
| Sample Not Ana   | alyzed                |                                    |                   |               |                   |
| 1342652<br>4-CC-A<br>Layer-1 Analyst:                    |                       | Gray<br>Non-Fibrous<br>Homogenous  | PLM 1% Cellulose  | PLM 99% Other | PLM None Detected |



## Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

1618 N Park, Kalamazoo

**ETC Job:** 247735

Client Project : N/A

**Date Collected**: 04/29/2022

Date Received: 05/02/2022

| Sample                              | Description                 | Appearance          | % Fibrous        | % Non-Fibrous | % Asbestos        |
|-------------------------------------|-----------------------------|---------------------|------------------|---------------|-------------------|
| 1342653<br>4-CC-B                   | Concrete Chip               | Gray<br>Non-Fibrous | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |
| Layer-1 Analyst:<br>Date Analyzed : | James Farinas<br>05/04/2022 | Homogenous          |                  |               |                   |
| 1342654<br>4-CC-C                   | Concrete Chip               | Gray<br>Non-Fibrous | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |
|                                     |                             | Homogenous          |                  |               |                   |

Layer-1 Analyst: James Farinas Date Analyzed : 05/04/2022

Analyst:

Lab Supervisor/Other Signatory

Jessica Dilutte

James Farinas

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

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

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).

## **ENVIRONMENTAL TESTING LABORATORIES, INC**



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

## Bulk Asbestos Chain of Custody

FAX: (734) 992-2261
www.2etl.com

ETL Project #: 247735

|  |                              |                      |   | - 01                     | 11/              |             |
|--|------------------------------|----------------------|---|--------------------------|------------------|-------------|
| Client: Atlas Technical  |                              |                      | Contact: Rob Smith                                    | Project Location/name:   |                  |             |
|  | Consu                        | ltants               | Phone: 248-669-5140                                   | Location/flame.          | B N PARK, KALAMA | zoo         |
| Address: 46555 Humboldt Dr. Ste.<br>100 Novi, MI 48377   |                              | Humboldt Dr. Ste.    | Fax: 248-669-5147                                     |                          |                  |             |
|  |                              | ovi, MI 48377        | E-mail:   | Client Project #:        |                  |             |
| Please Provid  | de Result                    | ts: Email = Fa       | Date Sampled: 4.29                                    | .22                      |                  |             |
|  |                              |                      |   |                          |                  |             |
| Turnaro  | und Time                     | e (TAT):   RUSH      |   | Standard (3-5 days) X    | Other 72 hour    | 's          |
|  | 11.00                        |                      | PLM Instructions<br>(Check all that apply)            |                          |                  |             |
| PLM EPA6   | 800/R-93/                    | 116, 1993 (Standa    | rd method)  | X Stop at 1st Positiv    | /e -             |             |
| Point Countin  | ng: 🗆 400                    | Points*   NYSD       | OH ELAP 198.1, 2002*                                  | Clearly mark Homoge      | enous Group      |             |
| ☐ Gravimetri   | c Reducti                    | on* □ NYSDOH El      | _AP 198.6, 2010*                                      |                          |                  |             |
| □ PLM Non-E  | Building N                   | Material (Dust, Wipe | e, Tape)  | □ Soil or Vermiculite    | Analysis*        |             |
| and the second s |                              | rnaround may be requ |   |                          |                  |             |
| Lab ID   |                              | Sample ID            | Material Description                                  | Sample Loc               | ation            | Quantity    |
| 613614   | 645                          | 1-RM-A,B,C           | Roofing material - garage, fallen into FS-1           | FS-1                     |                  | 425 SF      |
| 46 647 1   | 648                          | 2-VP-A,B,C           | Vapor paper - roll of black vapor paper inside garage | FS-1                     |                  | 1 roll      |
| 549 650  | 651                          | 3-WG-A,B,C           | Window glaze - white                                  | EA-2,3,4                 |                  | 3 windows   |
| 052 653 1  | 654                          | 4-CC-A,B,C           | Concrete chip - poured concrete floor                 | FS-1                     |                  | 400 SF      |
|  |                              |                      |   |                          |                  |             |
|  |                              |                      |   |                          |                  |             |
|  |                              |                      |   |                          |                  |             |
|  |                              |                      |   |                          |                  |             |
| telinquished (Nam  | e/Organizati                 | on): And             | rew DeLodder (Atlas                                   | 4.30.22                  | Tir              | me<br>am/pn |
| eceived (Name/E  | TL):                         | E                    | il Not  | 5/2/77                   | 8:00             |             |
| 20 42 3-10 506.0   | 2000 00 00 00 00             |                      | XRAMA-  | F3.73                    | 0910             | ) am/pm     |
| Sample Login (Name/ETL):  Stereoscopical/Sample Analysis (Name/ETL)  Stereoscopical/Sample Analysis (Name/ETL)   |                              | Ray mala             | 5/4/22  | (0:00                    |                  |             |
|  |                              | s (Name/ETL)         | Dry. College  | 5/11/22                  | 10.101           | amon        |
| esults (Name/ETL   | .):                          |                      | Janesan   | 5/5/20                   | 0-00             | am/or       |
| QA/QC Review (Name/ETL):   |                              | mly N-1.             | 13/3/22   | 2:30                     | am(pm            |             |
| Point Count ALL P  | vall/joint com<br>LASTER sam |                      |   | Remarks                  |                  |             |
| N ORDER TO EN  | SURE RES                     | ULTS BY SPECIFIED TA | T, THE LAB MUST BE EMAILED/CALLED WITH THE            | QUANTITY OF SAMPLES TO I | SE SHIPPED OR DR | OPPED OFF   |

# ATTACHMENT B PHOTOGRAPHS

1618 N. PARK STREET KALAMAZOO, MI 49007



View of the garage located at 1618 N. Park Street (EA-1) and roof (EA-5)



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

1618 N. PARK STREET KALAMAZOO, MI 49007



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



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

1618 N. PARK STREET KALAMAZOO, MI 49007



View of the garage interior (FS-1)





Atlas Technical Consultants

2650 Horizon Drive SE, Suite 11 Grand Rapids, Michigan 49546

**Phone** +1 616 698 3131 Fax +1 616 698 1922

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|--|--|
| Client Name:   | City of Kalamazoo  |
| Project Name:  | Residential Garage Asbestos Survey   |
| Project Number:  | 188BS22300   |
| Project Site Address (Subject Property):   | 525 Trimble Avenue, Kalamazoo, MI 49048  |
| Parcel Number:   | 06-14-272-024  |
| Date of Site Visit:  | 4/29/2022  |
| Asbestos Inspection Performed by:  | Andrew DeLodder (A48677)   |
| Asbestos Inspector's Signature:  | Andrew DeSodder  |
| Areas Not Accessible:  | All areas accessible   |
| Number of Floors:  | one approximately 600 square foot (SF) garage  |
| 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 residential garage 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<br>CATEGORY |
|------------|------------------------------|------------------|----------|---------------|--------------------|
| 1-RM-A,B,C | Roofing material,<br>garage  | EA-5 and<br>FS-1 | 650 SF   | 5% Chrysotile | Category<br>II     |
| 6-FT-A,B,C | Floor tile – 9"x9"<br>debris | FS-1             | 5 SF     | 3% Chrysotile | Category<br>II     |

The purpose of this inspection was to task an accredited asbestos inspector to complete a predemolition 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 material, garage        | EA-5 and FS-1 | 5% Chrysotile |
| 2-VP-A,B,C | Vapor paper - under wood siding | EA 1-4        | ND            |
| 3-VP-A,B,C | Vapor paper - over wood siding  | EA 4          | ND            |
| 4-VP-A,B,C | Vapor paper – roll in garage    | FS-1          | ND            |
| 5-WG-A,B,C | Window glaze, white             | EA 2-4        | ND            |

| HA/ID#      | MATERIAL                         | LOCATION | RESULT        |
|-------------|----------------------------------|----------|---------------|
| 6-FT-A,B,C  | Floor tile – 9"x9" debris        | FS-1     | 3% Chrysotile |
| 7-FB-A,B,C  | Fiber board – ceiling and debris | FS-1     | ND            |
| 8-TCB-A,B,C | Terracotta brick – on ground     | EA-4     | ND            |
| 9-BM-A,B,C  | Brick mortar – chimney           | EA-2     | ND            |
| 10-BM-A,B,C | Brick mortar – CMU foundation    | EA 1-4   | ND            |
| 11-CC-A,B,C | Concrete chip – floor            | FS-1     | ND            |

ND = No asbestos detected, NA = Not applicable, 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<br>QUANTITY |
|--|----------|-------------------------|
| Misc. Items (glue, solvents, cleaners, etc.) | FS-1     | 10                      |
| Automobile/Snow Blower/Lawn Mower            | FS-1     | 2                       |
| Paint Cans                                   | FS-1     | 4                       |
| Batteries                                    | FS-1     | 1                       |
| CRTs/TV Screens/Monitors/Electronics         | FS-1     | 1                       |
| Tires  | FS-1     | 7                       |

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

Table IV Functional Space/ Exterior Area Designations

| DESCRIPTION                | DESIGNATION |  |  |  |  |  |
|----------------------------|-------------|--|--|--|--|--|
| Interior Functional Spaces |             |  |  |  |  |  |
| Garage Interior            | FS-1        |  |  |  |  |  |
| Exterior Areas             |             |  |  |  |  |  |
| Garage front               | EA-1        |  |  |  |  |  |
| Garage left side           | EA-2        |  |  |  |  |  |
| Garage rear                | EA-3        |  |  |  |  |  |
| Garage right side          | EA-4        |  |  |  |  |  |
| Garage 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 (616) 698-3131.

# 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**: 247736

Client Project: N/A

**Report Date:** 5/5/2022

Attention: Robert Smith

Project Location: 525 Trimble, Kalamazoo

| Lab Sample Number | Client Sample Number | Sample Type | Completed  |
|-------------------|----------------------|-------------|------------|
| 1342655           | 01-RM-A              | Asbestos    | 05/05/2022 |
| 1342656           | 01-RM-B              | Asbestos    | 05/05/2022 |
| 1342657           | 01-RM-C              | Asbestos    | 05/05/2022 |
| 1342658           | 02-VP-A              | Asbestos    | 05/05/2022 |
| 1342659           | 02-VP-B              | Asbestos    | 05/05/2022 |
| 1342660           | 02-VP-C              | Asbestos    | 05/05/2022 |
| 1342661           | 03-VP-A              | Asbestos    | 05/05/2022 |
| 1342662           | 03-VP-B              | Asbestos    | 05/05/2022 |
| 1342663           | 03-VP-C              | Asbestos    | 05/05/2022 |
| 1342664           | 04-VP-A              | Asbestos    | 05/05/2022 |
| 1342665           | 04-VP-B              | Asbestos    | 05/05/2022 |
| 1342666           | 04-VP-C              | Asbestos    | 05/05/2022 |
| 1342667           | 05-WG-A              | Asbestos    | 05/05/2022 |
| 1342668           | 05-WG-B              | Asbestos    | 05/05/2022 |
| 1342669           | 05-WG-C              | Asbestos    | 05/05/2022 |
| 1342670           | 06-FT-A              | Asbestos    | 05/05/2022 |

| Lab Sample Number | Client Sample Number | Sample Type | Completed  |
|-------------------|----------------------|-------------|------------|
| 1342671           | 06-FT-B              | Asbestos    | 05/05/2022 |
| 1342672           | 06-FT-C              | Asbestos    | 05/05/2022 |
| 1342673           | 07-FB-A              | Asbestos    | 05/05/2022 |
| 1342674           | 07-FB-B              | Asbestos    | 05/05/2022 |
| 1342675           | 07-FB-C              | Asbestos    | 05/05/2022 |
| 1342676           | 08-TCB-A             | Asbestos    | 05/05/2022 |
| 1342677           | 08-TCB-B             | Asbestos    | 05/05/2022 |
| 1342678           | 08-TCB-C             | Asbestos    | 05/05/2022 |
| 1342679           | 09-BM-A              | Asbestos    | 05/05/2022 |
| 1342680           | 09-BM-B              | Asbestos    | 05/05/2022 |
| 1342681           | 09-BM-C              | Asbestos    | 05/05/2022 |
| 1342682           | 10-BM-A              | Asbestos    | 05/05/2022 |
| 1342683           | 10-BM-B              | Asbestos    | 05/05/2022 |
| 1342684           | 10-BM-C              | Asbestos    | 05/05/2022 |
| 1342685           | 11-CC-A              | Asbestos    | 05/05/2022 |
| 1342686           | 11-CC-B              | Asbestos    | 05/05/2022 |
| 1342687           | 11-CC-C              | Asbestos    | 05/05/2022 |
|                   |                      |             |            |

Reviewed by:

Enily North

Emily Nowacki

**Summary** 

Method Sample Layer Mastic
PLM 38

Lab Sample Number Client Sample Number Sample Type Completed

This report is intended for use solely by the individual or entity to which it is addressed. This report may not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. It may contain information that is privileged, confidential and otherwise exempt by law from disclosure. If the reader of this information is not the intended recipient or an employee of its intended recipient, you are herewith notified that any dissemination, distribution or copying of this information is strictly prohibited. If you have received this information in error, please notify ETL immediately. Thank you.



#### Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100 Client Project : N/A

Novi, Michigan 48377

**Date Collected**: 04/29/2022 **Date Received**: 05/02/2022

**ETC Job**: 247736

Location:

525 Trimble, Kalamazoo

| Sample                              | Description                  | Appearance           | % Fibrous         | % Non-Fibrous | % Asbestos        |  |
|-------------------------------------|------------------------------|----------------------|-------------------|---------------|-------------------|--|
| 1342655<br>01-RM-A                  | Roofing Material             | Grey<br>Non-Fibrous  | PLM 2% Cellulose  | PLM 98% Other | PLM None Detected |  |
| Layer-1 Analyst:<br>Date Analyzed : | Eleni Kiliaris<br>05/05/2022 | Homogenous           |                   |               |                   |  |
| 1342655<br>01-RM-A                  | Roofing Material             | Red<br>Non-Fibrous   | PLM 5% Cellulose  | PLM 95% Other | PLM None Detected |  |
| Layer-2 Analyst:<br>Date Analyzed : | Eleni Kiliaris<br>05/05/2022 | Homogenous           |                   |               |                   |  |
| 1342655<br>01-RM-A                  | Roofing Material             | Black<br>Non-Fibrous | PLM 2% Cellulose  | PLM 93% Other | PLM 5% Chrysotile |  |
| Layer-3 Analyst:<br>Date Analyzed : | Eleni Kiliaris<br>05/05/2022 | Homogenous           |                   |               |                   |  |
| 1342655<br>01-RM-A                  | Roofing Material             | Black<br>Fibrous     | PLM 80% Cellulose | PLM 20% Other | PLM None Detected |  |
| Layer-4 Analyst:                    | Eleni Kiliaris               | Homogenous           |                   |               |                   |  |
| Date Analyzed :                     | 05/05/2022                   |                      |                   |               |                   |  |



Date Analyzed:

05/05/2022

### **Certificate of Analysis**

#### Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

Client Project: N/A

46555 Humboldt Dr. Suite 100

**Date Collected**: 04/29/2022 **Date Received**: 05/02/2022

ETC Job: 247736

Location :

525 Trimble, Kalamazoo

Novi, Michigan 48377

| Sample                              | Description                  | Appearance                     | % Fibrous         | % Non-Fibrous | % Asbestos        |
|-------------------------------------|------------------------------|--------------------------------|-------------------|---------------|-------------------|
| 1342656<br>01-RM-B                  | Roofing Material             | Grey<br>Non-Fibrous            | PLM 2% Cellulose  | PLM 98% Other | PLM None Detected |
| Layer-1 Analyst:<br>Date Analyzed:  |                              | Homogenous                     |                   |               |                   |
| 1342656<br>01-RM-B                  | Roofing Material             | Red<br>Non-Fibrous             | PLM 5% Cellulose  | PLM 95% Other | PLM None Detected |
| Layer-2 Analyst:<br>Date Analyzed : | Eleni Kiliaris<br>05/05/2022 | Homogenous                     |                   |               |                   |
| 1342656<br>01-RM-B                  |                              | Positive Stop                  |                   |               |                   |
| Layer-3 Analyst:<br>Date Analyzed : | Eleni Kiliaris<br>05/05/2022 |                                |                   |               |                   |
| Layer Not Analy                     | zed                          |                                |                   |               |                   |
| 1342656<br>01-RM-B                  | Roofing Material             | Black<br>Fibrous<br>Homogenous | PLM 80% Cellulose | PLM 20% Other | PLM None Detected |
| Layer-4 Analyst:                    | Eleni Kiliaris               | riomogonous                    |                   |               |                   |





#### Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

Atlas - Novi

Client Project: N/A
46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

**Date Collected**: 04/29/2022 **Date Received**: 05/02/2022

ETC Job: 247736

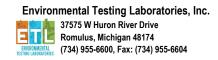
Location:

Date Analyzed: 05/05/2022

525 Trimble, Kalamazoo

| Sample                               | Description                  | Appearance          | % Fibrous         | % Non-Fibrous | % Asbestos        |
|--------------------------------------|------------------------------|---------------------|-------------------|---------------|-------------------|
| 1342657<br>01-RM-C                   | Roofing Material             | Grey<br>Non-Fibrous | PLM 2% Cellulose  | PLM 98% Other | PLM None Detected |
| Layer-1 Analyst:<br>Date Analyzed :  | Eleni Kiliaris<br>05/05/2022 | Homogenous          |                   |               |                   |
| 1342657<br>01-RM-C                   | Roofing Material             | Red<br>Non-Fibrous  | PLM 5% Cellulose  | PLM 95% Other | PLM None Detected |
| Layer-2 Analyst:<br>Date Analyzed :  | Eleni Kiliaris<br>05/05/2022 | Homogenous          |                   |               |                   |
| 1342657<br>01-RM-C                   |                              | Positive Stop       |                   |               |                   |
| Layer-3 Analyst:<br>Date Analyzed :  | Eleni Kiliaris<br>05/05/2022 |                     |                   |               |                   |
| Layer Not Analy                      | zed                          |                     |                   |               |                   |
| 1342657<br>01-RM-C                   | Roofing Material             | Black<br>Fibrous    | PLM 80% Cellulose | PLM 20% Other | PLM None Detected |
| Layer-4 Analyst:<br>Date Analyzed :  | Eleni Kiliaris<br>05/05/2022 | Homogenous          |                   |               |                   |
| 1342658<br>02-VP-A                   | Vapor Paper                  | Black<br>Fibrous    | PLM 90% Cellulose | PLM 10% Other | PLM None Detected |
| Analyst: Eleni Ki<br>Date Analyzed : | liaris<br>05/05/2022         | Homogenous          |                   |               |                   |
| 1342659<br>02-VP-B                   | Vapor Paper                  | Black<br>Fibrous    | PLM 90% Cellulose | PLM 10% Other | PLM None Detected |
| Analyst: Eleni Ki                    | liaris                       | Homogenous          |                   |               |                   |





#### Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

Analyst: Eleni Kiliaris
Date Analyzed: 05/05/2022

525 Trimble, Kalamazoo

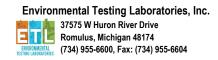
ETC Job: 247736 Client Project: N/A

**Date Collected**: 04/29/2022 **Date Received**: 05/02/2022

| Sample  | Description                        | Appearance                     | % Fibrous         | % Non-Fibrous | % Asbestos        |
|---|------------------------------------|--------------------------------|-------------------|---------------|-------------------|
| 1342660<br>02-VP-C  | Vapor Paper                        | Black<br>Fibrous               | PLM 90% Cellulose | PLM 10% Other | PLM None Detected |
| Analyst: Eleni Kil<br>Date Analyzed :                       | iaris<br>05/05/2022                | Homogenous                     |                   |               |                   |
| 1342661<br>03-VP-A<br>Analyst: Eleni Kil<br>Date Analyzed : | Vapor Paper<br>iaris<br>05/05/2022 | Black<br>Fibrous<br>Homogenous | PLM 90% Cellulose | PLM 10% Other | PLM None Detected |
| 1342662<br>03-VP-B<br>Analyst: Eleni Kil<br>Date Analyzed : | Vapor Paper<br>iaris<br>05/05/2022 | Black<br>Fibrous<br>Homogenous | PLM 90% Cellulose | PLM 10% Other | PLM None Detected |
| 1342663<br>03-VP-C<br>Analyst: Eleni Kil<br>Date Analyzed : | Vapor Paper<br>iaris<br>05/05/2022 | Black<br>Fibrous<br>Homogenous | PLM 90% Cellulose | PLM 10% Other | PLM None Detected |
| 1342664<br>04-VP-A<br>Analyst: Eleni Kil<br>Date Analyzed : | Vapor Paper<br>iaris<br>05/05/2022 | Black<br>Fibrous<br>Homogenous | PLM 90% Cellulose | PLM 10% Other | PLM None Detected |
| 1342665<br>04-VP-B  | Vapor Paper                        | Black<br>Fibrous               | PLM 90% Cellulose | PLM 10% Other | PLM None Detected |

Homogenous





**ETC Job**: 247736

**Date Collected:** 04/29/2022

Date Received: 05/02/2022

#### Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

Client Project: N/A 46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

Layer Not Analyzed

525 Trimble, Kalamazoo

| Sample                                    | Description        | Appearance                         | % Fibrous         | % Non-Fibrous | % Asbestos        |
|---|--------------------|------------------------------------|-------------------|---------------|-------------------|
| 1342666<br>04-VP-C                        | Vapor Paper        | Black<br>Fibrous<br>Homogenous     | PLM 90% Cellulose | PLM 10% Other | PLM None Detected |
| Analyst: Eleni Kili<br>Date Analyzed :    | aris<br>05/05/2022 | Hollingerous                       |                   |               |                   |
| 1342667<br>05-WG-A<br>Analyst: Eleni Kili |                    | White<br>Non-Fibrous<br>Homogenous | PLM 2% Cellulose  | PLM 98% Other | PLM None Detected |
| Date Analyzed :                           | 05/05/2022         |                                    |                   |               |                   |
| 1342668<br>05-WG-B                        | Window Glaze       | White<br>Non-Fibrous<br>Homogenous | PLM 2% Cellulose  | PLM 98% Other | PLM None Detected |
| Analyst: Eleni Kili<br>Date Analyzed :    | aris<br>05/05/2022 | nonogenous                         |                   |               |                   |
| 1342669<br>05-WG-C                        | Window Glaze       | White<br>Non-Fibrous               | PLM 2% Cellulose  | PLM 98% Other | PLM None Detected |
| Analyst: Eleni Kili<br>Date Analyzed :    | aris<br>05/05/2022 | Homogenous                         |                   |               |                   |
| 1342670<br>06-FT-A                        | Floor Tile         | Tan<br>Non-Fibrous                 | PLM 1% Cellulose  | PLM 96% Other | PLM 3% Chrysotile |
| Analyst: Eleni Kili<br>Date Analyzed :    | aris<br>05/05/2022 | Homogenous                         |                   |               |                   |
| 1342671<br>06-FT-B                        |                    | Positive Stop                      |                   |               |                   |
| Analyst: Eleni Kili<br>Date Analyzed :    | aris<br>05/05/2022 |                                    |                   |               |                   |





#### Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100 Client Project : N/A

Novi, Michigan 48377

**Date Collected**: 04/29/2022 **Date Received**: 05/02/2022

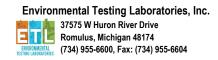
ETC Job: 247736

Location:

525 Trimble, Kalamazoo

| Sample  | Description        | Appearance                | % Fibrous         | % Non-Fibrous | % Asbestos        |
|---|--------------------|---------------------------|-------------------|---------------|-------------------|
| 1342672<br>06-FT-C                                  |                    | Positive Stop             |                   |               |                   |
| Analyst: Eleni Kilia<br>Date Analyzed :             | uris<br>05/05/2022 |                           |                   |               |                   |
| Layer Not Analyze                                   | ed                 |                           |                   |               |                   |
| 1342673<br>07-FB-A                                  | Fiber Board        | Brown<br>Fibrous          | PLM 95% Cellulose | PLM 5% Other  | PLM None Detected |
| Analyst: Eleni Kilia<br>Date Analyzed :             | o5/05/2022         | Homogenous                |                   |               |                   |
| 1342674<br>07-FB-B                                  | Fiber Board        | Brown<br>Fibrous          | PLM 95% Cellulose | PLM 5% Other  | PLM None Detected |
| Analyst: Eleni Kilia<br>Date Analyzed :             | oris<br>05/05/2022 | Homogenous                |                   |               |                   |
| 1342675<br>07-FB-C                                  | Fiber Board        | Brown<br>Fibrous          | PLM 95% Cellulose | PLM 5% Other  | PLM None Detected |
| Analyst: Eleni Kilia<br>Date Analyzed :             | ris<br>05/05/2022  | Homogenous                |                   |               |                   |
| 1342676<br>08-TCB-A                                 | Terracotta Brick   | Brown<br>Non-Fibrous      | PLM 1% Cellulose  | PLM 99% Other | PLM None Detected |
| Analyst: Eleni Kilia<br>Date Analyzed :             | oris<br>05/05/2022 | Homogenous                |                   |               |                   |
| 1342677   | Terracotta Brick   | Brown                     | PLM 1% Cellulose  | PLM 99% Other | PLM None Detected |
| 08-TCB-B<br>Analyst: Eleni Kilia<br>Date Analyzed : | uris<br>05/05/2022 | Non-Fibrous<br>Homogenous |                   |               |                   |





#### Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location:

05/05/2022

Date Analyzed :

525 Trimble, Kalamazoo

**ETC Job**: 247736

Client Project: N/A

**Date Collected**: 04/29/2022 **Date Received**: 05/02/2022

| Sample                                    | Description          | Appearance                        | % Fibrous        | % Non-Fibrous | % Asbestos        |
|---|----------------------|-----------------------------------|------------------|---------------|-------------------|
| 1342678<br>08-TCB-C                       | Terracotta Brick     | Brown<br>Non-Fibrous              | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |
| Analyst: Eleni Kili<br>Date Analyzed :    | aris<br>05/05/2022   | Homogenous                        |                  |               |                   |
| 1342679<br>09-BM-A<br>Analyst: Eleni Kili | Brick Mortar         | Grey<br>Non-Fibrous<br>Homogenous | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |
| Date Analyzed :                           | 05/05/2022           |                                   |                  |               |                   |
| 1342680<br>09-BM-B                        | Brick Mortar         | Grey<br>Non-Fibrous<br>Homogenous | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |
| Analyst: Eleni Kili<br>Date Analyzed :    | aris<br>05/05/2022   | , is magained                     |                  |               |                   |
| 1342681<br>09-BM-C                        | Brick Mortar         | Grey<br>Non-Fibrous<br>Homogenous | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |
| Analyst: Eleni Kili<br>Date Analyzed :    | aris<br>05/05/2022   | Homegonoac                        |                  |               |                   |
| 1342682<br>10-BM-A                        | Brick Mortar         | Grey<br>Non-Fibrous               | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |
| Analyst: Eleni Kili:<br>Date Analyzed :   | aris<br>05/05/2022   | Homogenous                        |                  |               |                   |
| 1342683<br>10-BM-B<br>Analyst: Eleni Kili | Brick Mortar<br>aris | Grey<br>Non-Fibrous<br>Homogenous | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |





#### Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

Client Project: N/A 46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

**Date Collected:** 04/29/2022 **Date Received:** 05/02/2022

Analyst:

ETC Job: 247736

Location:

525 Trimble, Kalamazoo

| Sample  | Description      | Appearance                        | % Fibrous        | % Non-Fibrous | % Asbestos        |
|---|------------------|-----------------------------------|------------------|---------------|-------------------|
| 1342684<br>10-BM-C                                    | Brick Mortar     | Grey<br>Non-Fibrous<br>Homogenous | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |
| Analyst: Eleni Kiliaı<br>Date Analyzed :              | is<br>05/05/2022 | Homogenous                        |                  |               |                   |
| 1342685<br>11-CC-A                                    | Concrete Chip    | Grey<br>Non-Fibrous               | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |
| Analyst: Eleni Kiliaı<br>Date Analyzed :              | is<br>05/05/2022 | Homogenous                        |                  |               |                   |
| 1342686<br>11-CC-B                                    | Concrete Chip    | Grey<br>Non-Fibrous               | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |
| Analyst: Eleni Kiliaı<br>Date Analyzed :              | is<br>05/05/2022 | Homogenous                        |                  |               |                   |
| 1342687<br>11-CC-C                                    | Concrete Chip    | Grey<br>Non-Fibrous               | PLM 1% Cellulose | PLM 99% Other | PLM None Detected |
| Analyst: Eleni Kiliaris<br>Date Analyzed : 05/05/2022 |                  | Homogenous                        |                  |               |                   |

Lab Supervisor/Other Signatory

Jessica Dilutte

Eleni Kiliaris

Elu kilini

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).



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

#### **Bulk Asbestos Chain of Custody**

ETL Project #: -117-72( www.2etl.com

| -   |                              |   | 27/17/0                           |                          |  |  |
|---|------------------------------|---|-----------------------------------|--------------------------|--|--|
| Client:                                   | Atlas Technical              | Contact: Rob Smith                          | Project Location/name:            |                          |  |  |
| Address                                   | Consultants                  | Phone: 248-669-5140                         | 525 TRIMBLE, KALAMAZOO            |                          |  |  |
| Address: 46555 Humboldt Dr. Ste.          |                              |   |                                   |                          |  |  |
| 100 Novi, MI 48377                        |                              | E-mail:                                     | Client Project #:                 |                          |  |  |
| Please Provid                             | de Results:   Email  F       | Date Sampled: 4.29.22                       |                                   |                          |  |  |
| Turnaro                                   | und Time (TAT):   RUS        | SH ☐ Same Day ☐ 24 hr ☐ 48 hr ☐             | Standard (3-5 days) X Other 72 ho | urs                      |  |  |
|   |                              | PLM Instructions<br>(Check all that apply)  |                                   |                          |  |  |
| □ PLM EPA6                                | 600/R-93/116, 1993 (Stand    | ard method)                                 | X Stop at 1st Positive -          | X Stop at 1st Positive - |  |  |
| Point Countin                             | ng: □ 400 Points* □ NYSE     | OOH ELAP 198.1, 2002*                       | Clearly mark Homogenous Group     |                          |  |  |
| ☐ Gravimetric                             | c Reduction* □ NYSDOH E      | ELAP 198.6, 2010*                           |                                   |                          |  |  |
| □ PLM Non-E                               | Building Material (Dust, Wip | oe, Tape)                                   | ☐ Soil or Vermiculite Analysis*   |                          |  |  |
| * Additional chai                         | rge and turnaround may be re | quired                                      |                                   |                          |  |  |
| Lab ID                                    | Sample ID                    | Material Description                        | Sample Location                   | Quantity                 |  |  |
| 659 656 6                                 | 657 1-RM-A,B,C               | Roofing material - garage, fallen into FS-1 | FS-1                              | 650 SF                   |  |  |
| 658 659 6                                 | 2-VP-A,B,C                   | Vapor paper - under wood siding             | EA-1,2,3,4                        | 1,100 SF                 |  |  |
| 661 662 1                                 | 3-VP-A,B,C                   | Vapor paper - over wood siding              | EA-4                              | 30 SF                    |  |  |
| 669 665                                   | 666 4-VP-A,B,C               | Vapor paper - roll in garage interior       | FS-1                              | 1 roll                   |  |  |
| 667 668                                   | 669 5-WG-A,B,C               | Window glaze - white                        | EA-2,3,4                          | 10 windows               |  |  |
| 670 671                                   | 672 6-FT-A,B,C               | Floot tile - 9"x9" debris                   | FS-1                              | 5 SF                     |  |  |
| 673 674                                   | 675 7-FB-A,B,C               | Fiber board - ceiling and debris            | FS-1                              | 600 SF                   |  |  |
| 076677 (                                  | 8-TCB-A,B,C                  | Terracotta brick - on ground                | EA-4                              | 5 SF                     |  |  |
| 679680 6                                  | 9-BM-A,B,C                   | Brick mortar - chimney                      | EA-2                              | 100 SF                   |  |  |
| 826836                                    | 10-вм-а,в,с                  | Brick mortar - CMU foundation               | EA-1,2,3,4                        | 80SF                     |  |  |
| 545 6 <b>8</b> 6 (                        | 267 11-CC-A,B,C              | Concrete chip - poured concrete floor       | FS-1                              | 600 SF                   |  |  |
|   |                              |   | Date                              | Time                     |  |  |
| Relinquished (Nam                         | e/Organization): Ar          | ndrew DeLodder / Atlas                      | 1/4/1900                          | am/pr                    |  |  |
| Received (Name/E)                         | TL):                         | WIN I                                       | 572/22 8:                         | es Carmor                |  |  |
| Sample Login (Nam                         | ne/ETL):                     | 5.3.22 0920 am/pm                           |                                   |                          |  |  |
| Stereoscopical/Sample Analysis (Name/ETL) |                              |   | 515122 12:0                       | am/on                    |  |  |
| Results (Name/ETL):                       |                              |   | 5/5/22 17.00                      |                          |  |  |
| QA/QC Review (Na                          |                              | Lan   | 6.6.22 123                        | am/pn                    |  |  |
| Special Instructions                      | :• 1st Positive Stop;        | Remarks                                     |                                   |                          |  |  |
| Composite all dryw<br>Point Count ALL Pl  |                              |   |                                   |                          |  |  |

# ATTACHMENT B PHOTOGRAPHS

#### 525 TRIMBLE AVENUE KALAMAZOO, MI 49048



View of the garage located at 525 Trimble Avenue (EA-1)



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

525 TRIMBLE AVENUE KALAMAZOO, MI 49048



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



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

525 TRIMBLE AVENUE KALAMAZOO, MI 49048



View of the roof (EA-5)



View of the garage interior (FS-1)