



Department of Management Services
Purchasing/Risk Management
241 West South Street
Kalamazoo, MI 49007-4796
Phone: 269.337.8020
Fax: 269.337.8500
www.kalamazoo.org

VIRTUAL PRE-BID MEETING/INSPECTION on October 18, 2022 @ 11:00 a.m. Local Time
Then proceed to project sites at your own pace, open until 4:00 p.m. Register in advance for this
Zoom meeting: https://us06web.zoom.us/webinar/register/WN_e8qqXJatTg-J4jsxjyU4Jw

INVITATION FOR BID (IFB)

The City of Kalamazoo, Michigan is soliciting sealed bids for:

PROJECT NAME: Demolition of 3 Structures

BID REFERENCE #: 91240-016.0

IFB ISSUE DATE: October 5, 2022

BID DUE/OPENING DATE: November 1, 2022 @ 3:00 p.m. Local Time
Facsimile Bids Will Not Be Accepted.

MAILING ADDRESS & INSTRUCTIONS

Mail to:

Purchasing/Risk Management
241 West South Street
Kalamazoo, MI 49007

Questions about this IFB should be directed to:

Department Contact: Roger Iveson
Building Official @ (269) 337-8560 or
ivesonr@kalamazoo.org

Include on the Envelope the Project Name and Bid Reference Number. All Envelopes Must Be Sealed.

You are invited to submit a bid for this project. Specifications, terms, conditions and instructions for submitting bids are contained herein. This Invitation for Bid with all pages, documents and attachments contained herein, or subsequently added to and made a part hereof, submitted as a fully and properly executed bid shall constitute the contract between the City and the successful bidder when approved and accepted on behalf of the City by an authorized official or agent of the City. Please review the bid document as soon as possible and note the **DEADLINE FOR QUESTIONS** in the Instructions to Bidders.

All bidders shall complete and return the Bid and Award page(s) and submit all information requested herein in order for a bid to be responsive. The bid document shall be returned in its entirety, in a properly identified and sealed envelope to the Purchasing/Risk Management Division at the above address. **BIDS MUST BE RECEIVED BEFORE THE DUE DATE - LATE BIDS WILL NOT BE CONSIDERED.** The City reserves the right to postpone the bid opening for its own convenience.

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STATEMENT OF NO BID

NOTE: If you DO NOT intend to bid on this commodity or service, please complete and return this form immediately. Your response will assist us in evaluating all responses for this important project and to improve our bid solicitation process.

The Purchasing/Risk Management Division of the City of Kalamazoo wishes to keep its bidders list file up to date. If, for any reason you cannot supply the commodity/service noted in this bid solicitation, this form must be completed and returned to remain on the particular bid list for future projects of this type.

If you do not respond to this inquiry within the time set for the bid opening date and time noted, we will assume that you can no longer supply this commodity/service, and your name will be removed from this bid list.

- _____ Specifications too "tight", i.e. geared toward one brand or manufacturer only (explain below).
- _____ Specifications are unclear (explain below).
- _____ We are unable to meet specifications.
- _____ Insufficient time to respond to the Invitation for Bid.
- _____ Our schedule would not permit us to perform.
- _____ We are unable to meet bond requirements.
- _____ We are unable to meet insurance requirements.
- _____ We do not offer this product or service.
- _____ Remove us from your bidders list for this commodity or service.
- _____ Other (specify below).

REMARKS: _____

SIGNED: _____ NAME: _____
(Type or Print)

TITLE: _____ DATE: _____

FIRM NAME: _____
(if any)

ADDRESS: _____
(Street address) (City) (State) (Zip)

PHONE: _____ FAX: _____

EMAIL: _____

**SECTION I
INSTRUCTIONS TO BIDDERS**

1. **EXAMINATION OF BID DOCUMENT**-Before submitting a bid, bidders shall carefully examine the specifications and shall fully inform themselves as to all existing conditions and limitations. The bidder shall indicate in the bid the sum to cover the cost of all items included on the bid form.
2. **PREPARATION OF BID**-The bid shall be legibly prepared in ink or typed. If a unit price or extension already entered by the bidder on the Bid and Award form is to be altered, it shall be crossed out and the new unit price or extension entered above or below and initialed by the bidder with ink. The bid shall be legally signed, and the complete address of the bidder given thereon.

All bids shall be tightly sealed in an envelope plainly marked SEALED BID and identified by project name, bid opening date and time. Bids opened by mistake, due to improper identification, will be so documented and resealed. The Purchasing/Risk Management Division will maintain and guarantee confidentiality of the contents until the specified opening date and time. Bids submitted by Fax machine will not be accepted.

3. **EXPLANATION TO BIDDERS**-Any binding explanation desired by a bidder regarding the meaning or interpretation of the Invitation for Bid (IFB) and attachments must be requested in writing, **at least 5 days before the bid opening** so a reply may reach all prospective bidders prior to the submission of bids. Any information given to a prospective bidder concerning the IFB will be furnished to all prospective bidders as an amendment or addendum to the IFB if such information would be prejudicial to uninformed bidders. Receipt of amendments or addenda by a bidder must be acknowledged in the bid by attachment, or by letter or fax received before the time set for opening of bids. Oral explanation or instructions given prior to the opening will not be binding.
4. **CASH DISCOUNTS**-Discount offered for payment of less than thirty (30) days will not be considered in evaluating bids for award. Offered discounts of less than thirty (30) days will be taken if payment is made within the discount period, even though not considered in evaluation of the bid.
5. **WITHDRAWAL OF BIDS**-Bids may be withdrawn in person by a bidder or authorized representative, provided their identity is made known and a receipt is signed for the bid, but only if the withdrawal is made prior to the exact time set for receipt of bid. No bid may be withdrawn for at least sixty (60) days after bid opening.
6. **ALTERNATE BIDS**-bidders are cautioned that any alternate bid, unless specifically requested or any changes, insertions or omissions to the terms and conditions, specifications or any other requirement of this IFB may be considered non-responsive, and at the option of the City, result in rejection of the alternate bid.
7. **LATE BIDS**-Any bid received at the office designated herein after the exact time specified for receipt will not be considered. (Note: The City reserves the right to consider bids that have been determined by the City to be received late due to mishandling by the City after receipt of the bid and no award has been made.)
8. **UNIT PRICES**-If there is a discrepancy between unit prices and their extension, unit prices shall prevail.

SECTION II
BID AND AWARD

The undersigned having become thoroughly familiar with the project and sites, location conditions affecting the work and understanding all of the special requirements, terms and condition incorporated herein, agrees to perform the demolition work in strict accordance with all the requirements of these documents and all governing statutes, ordinances, rules and regulations as written now and as may be amended, including but not limited to Chapter 9, Article VI, Sections 9-251 through 9-313 of the City of Kalamazoo Code of Ordinance and to provide and furnish all the equipment, labor and materials necessary to complete in a professional manner all work required for the lump sums as stated below:

SCOPE OF WORK/ PROJECT DESCRIPTION

The project includes complete demolition and removal of the buildings/structures listed below and restoration of the project site following the general specifications detailed in Section III: SPECIAL INSTRUCTIONS FOR RESIDENTIAL DEMOLITION. SPECIAL INSTRUCTIONS FOR RESIDENTIAL AND LIGHT COMMERCIAL DEMOLITIONS.

Professional surveys/inspections of these structures have been completed to determine presence, types, quantities and locations of asbestos-containing materials (ACM), mercury, and household hazardous waste unless otherwise noted as PACM. A partial report will be distributed to each firm attending the Pre-Bid Inspection. Proper removal of any and all such materials shall be the responsibility of the successful demolition bidder and all costs for removal shall be included in the bid for each site. Please invite any potential sub-contractors to attend pre-bid inspections. All structures are wood frame houses on basement unless noted otherwise. Area given is total floor area as shown in City Assessor database.

<u>ITEM</u>	<u>ADDRESS/LOCATION</u>	<u>DESCRIPTION</u>	<u>BID AMOUNT</u>
1.	1401 N Burdick Street	3,200 sq. ft, 1 story	\$ _____
2.	1820 N Burdick Street	627 sq. ft, 1 story 336 sq. ft, garage	\$ _____
3.	1852 S Burdick Street	4,356 sq. ft, 1 story	\$ _____
GRAND TOTAL OF ALL 3 LINE-ITEM PRICES ABOVE			\$ _____
DISCOUNTED TOTAL (if awarded <u>all</u> project sites)			\$ _____

For additional details and specifications, See - Section III: Special Instructions for Residential and Light Commercial Demolitions; Section IV: Special Requirements - Demolition.

Work shall start within twenty (20) calendar days after receipt of the **NOTICE TO PROCEED** and the first line item shall be substantially completed no later than twenty-five (25) calendar days after commencement. Each additional item for each contract shall be substantially completed within a maximum of one week after completion of the previous item.

The bidder understands that no work may commence until all bonds, permits, licenses and certificates of insurance have been obtained and all fees paid. Said documents shall be obtained within ten (10) days after receipt of **NOTICE OF AWARD**. The bidder agrees to complete all work detailed herein and to conform with the terms of this contract and all applicable laws, ordinances, rules and regulations within the schedule outlined above.

Failure to obtain all required documents within ten (10) days of the receipt of notice of award, or failure to complete all required work within the time specified above shall constitute breach of this contract and justify cancellation by the City. Upon cancellation of the contract, the bidder shall be liable to the City for any increased cost caused by the bidder's breach. Bidders declared in breach will also be removed from the active bidders list maintained by the department until such time as any costs have been reimbursed to the City and/or the matter is otherwise fully resolved to the satisfaction of the City.

Bidder/Contractor has examined and carefully studied the bidding documents and attachments, and acknowledges receipt of the following addenda:

Addendum No: _____

Dated: _____

Bidder shall provide all of the information as requested herein with their bid. Failure to do so and/or failure to provide post-bid requested information may be cause for rejecting the bid as non-responsive.

By my signature below, I certify that the firm bidding on this contract, when making hiring decisions, does not use a past criminal conviction as a bar to or preclude a person with a criminal conviction from being considered for employment with the bidding firm unless otherwise precluded by federal or state law. I further certify that I have read and agree to be bound by the provisions of the City's Non-Discrimination Clause found in Appendix A.

Signed: _____ Name: _____

Title: _____

QUALIFICATIONS OF BIDDERS

1. To demonstrate Bidder's qualifications to perform the Work, provide the following as a supplement to your bid. If Bidder will be subcontracting asbestos abatement services, Bidder shall also provide the following for the asbestos subcontractor. OWNER reserves the right to require bidders to submit additional information as OWNER deems necessary to satisfy OWNER that the bidders are adequately prepared to fulfill all provisions of the contract and as to which bidder should be awarded the contract. Failure to provide information requested within the time frames established by the OWNER will subject the bidder to disqualification of the bid.
 - Description of Contractor's experience with projects of comparative size, complexity, and cost. Specify projects, name of project manager, owners and locations of projects, dates of each project completion. A reference name and current contact phone number for each project must be provided.
 - Provide a listing of equipment that will be dedicated to this project. Written certification that the equipment owned and/or leased by the bidder that will be utilized on the project will conform to all safety requirements required by Michigan and federal law, regulations, and codes.
 - Provide names and addresses of licensed or permitted facilities for recycling or disposal of all wastes and construction debris that will be used at this site.

2. OWNER retains the right to take into account factors others than those set forth in the bid specifications in evaluating and qualifying bidders. Contractor shall provide the information below. Failure to provide requested information will subject the bidder to disqualification of the bid. These factors include, but are not limited to the following:
 - Projects involving the bidder for which performance was and/or not delivered on time;
 - Fines and penalties imposed on the bidder for any projects in the last five (5) years;
 - State, Federal and local environmental violations in the last five (5) years;
 - Liens filed against bidder in the last five (5) years;
 - Suspension or revocations of any professional license of any director, officer, or managerial employee of the bidder, to the extent that any work to be performed is within the field of such licensed profession;
 - OSHA violations by the bidder or bidder's subcontractors within the last five (5) year (including Michigan MIOSHA or other state occupational or construction health and safety laws or regulations), as well as all notices of OSHA or other health and safety citations filed against bidder, together with a description and explanation of remediation or other steps taken regarding such violations and notices of violations;
 - Litigation or arbitration cases in which bidder has been a defendant or third party related to any construction or demolition project in which it has been engaged within the previous five (5) years;
 - Violations, if any, of prevailing wage laws or other wage and hour law violations, including, but not limited to, child labor violations, failure to pay wages, or unemployment insurance tax delinquencies within the past five (5) years;
 - Criminal convictions related to the construction or demolition business of bidder, its officers, directors, and/or managerial employees, within the past five (5) years;

SUB-CONTRACTING INFORMATION

Using the table below provide information regarding the sub-contractors that will be working to fulfill the requirements of this contract. Submit as complete a list as possible at the time of your proposal. You will have two business days after the proposal opening to update the list as needed. The information provided will be used for evaluating your proposal and to assist in determining if you qualify as a Kalamazoo County Bidder.

INSTRUCTIONS:

Nature of Contract - State a brief description of the work or product that will be provided.

BIDDER – Provide the percentage of services or construction activity that will be provided by your firm.

Subcontractors:

- Provide the Name and Address for each subcontractor providing services or construction activities for this contract.
- Provide the percentage for the dollar amount of the contract work they will be performing.

If there are not enough lines in the table below make additional copies as needed.

Subcontractor Name/Address	% Of Total Contract
BIDDER	

Does this List of Subcontractors need to be updated after the proposal opening? **Yes** ___ **No** ___

REFERENCE QUESTIONNAIRE

Please answer the following questions completely.

1. Firm name: _____
2. Established: Year _____ Number of Employees: _____
3. Type of organization:
 - a. Individual: _____
 - b. Partnership: _____
 - c. Corporation: _____
 - d. Other: _____
4. Former firm name(s) if any, and year(s) in business:

5. Include at least 3 references of contracts for similar work performed over the last five (5) years. Include: owner, contact person and phone number and description of work performed.
 - 5.1 Company Name: _____
Address: _____
Phone: _____
Contact: _____
Type of work or contract: _____
 - 5.2 Company Name: _____
Address: _____
Phone: _____
Contact: _____
Type of work or contract: _____
 - 5.3 Company Name: _____
Address: _____
Phone: _____
Contact: _____
Type of work or contract: _____

I hereby certify that all of the information provided is true and answered to the best of my ability.

Signed: _____ Name: _____
(type or print)
Title: _____ Date: _____

CITY OF KALAMAZOO EX-OFFENDER POLICY CHECKLIST

As part of the City’s commitment to reducing unacceptable poverty, encouraging rehabilitation, reducing recidivism and strengthening families in Kalamazoo, the City has updated its Purchasing Policy to ensure that firms with whom the City does business share in this commitment by utilizing hiring practices that do not unfairly deny people with arrest and conviction records gainful employment. *(Important: This requirement also extends to any subcontractors the bidder intends to use to fulfill the contract for goods or services being sought from the City.)*

Part I: Proof that the bidder does not inquire about an individual’s past arrest or criminal history on the bidders employment application form

- Attach a copy of the current application for employment being used by the bidder

Part II: Certification that the bidder does not use an individual’s past arrest or criminal history to unlawfully discriminate against them by checking *one or more* of the following:

- That pursuant to federal or state law bidder is precluded from hiring persons with certain criminal records from holding particular positions or engaging in certain occupations by providing a cite to the applicable statute or regulation; if checking this box, provide a citation to the applicable statute or rule upon which the bidder is relying:_____
- That bidder conducts criminal history background checks only as necessary, and only after making a conditional offer of employment; that any withdrawal of an offer of employment to an individual because of a past criminal history is job-related and consistent with business necessity after the individual has been provided an individualized assessment opportunity to review and challenge or supplement the history of past criminal conduct being relied upon by the bidder;
- That the use by bidder of criminal history background checks complies with the U.S. Equal Employment Opportunity Commission’s Enforcement Guidance on the Consideration of Arrest and Conviction Records in Employment Decisions and that the bidder has not had a determination rendered against it in past 7 years that it discriminated against a person through the use of an individual’s arrest or criminal history

I CERTIFY THAT THE ABOVE STATEMENTS ARE TRUE.

Date

Signature

Printed Name

Position

NOTE: This blanket addendum is for informational purposes only and does not need to be acknowledged by bidders in their submission.

COVID-19 ADDENDUM #2

January 1, 2022

TO: ALL Prospective Bidders
PROJECT: ALL Upcoming Projects

The purpose of this addendum is to clarify and/or modify the sealed bid delivery and bid opening process for all upcoming projects. All work affected is subject to all applicable terms and conditions of the Bidding and Contract Documents.

1. UPDATE TO SEALED BID DELIVERY AND BID OPENING POLICY:

Effective immediately and continuing until further notice, the City of Kalamazoo will return to IN-PERSON bid openings following City Hall guidelines, including Mask Mandate.

BIDS MUST BE RECEIVED BEFORE THE DUE DATE AND TIME – LATE BIDS WILL NOT BE CONSIDERED.

Bidders can submit sealed bids in one of the following ways:

- **Mail your bid**, to be received before the bid due date and time indicated in the bid document, to the City of Kalamazoo at the following address:

City of Kalamazoo
Purchasing Division
241 West South Street
Kalamazoo, MI 49007

- **Deliver your bid to the Treasurer’s Office Payment Drop Box** located in the northwest corner of City Hall before the bid due date and time indicated in the bid document.
- **Deliver your bid to City Hall In Person** before the bid due date and time indicated in the bid document.

All bids shall be tightly sealed in an envelope plainly marked SEALED BID and identified by project name, bid opening date and time. Bids opened by mistake, due to improper identification, will be so documented and resealed. The Purchasing Division will maintain and guarantee confidentiality of the contents until the specified opening date and time. Bids submitted by fax machine or email will not be accepted.

The Purchasing Division will post bid tabulations to the City of Kalamazoo website within 24 hours after the bid opening date and time at: <https://www.kalamazoocity.org/bidopportunities>.

Questions regarding this sealed bid delivery and bid opening policy change related to the COVID-19 virus should be directed to the City of Kalamazoo at (269) 337-8020.

Sincerely,



Michelle Emig
Purchasing Division Manager

I hereby state that all of the information I have provided is true, accurate and complete. I hereby state that I have the authority to submit this bid which will become a binding contract if accepted by the City of Kalamazoo. I hereby state that I have not communicated with nor otherwise colluded with any other bidder, nor have I made any agreement with nor offered/accepted anything of value to/from an official or employee of the City of Kalamazoo that would tend to destroy or hinder free competition.

The firm's identification information provided will be used by the City for purchase orders, payment and other contractual purposes. If the contractual relationship is with, or the payment made to, another firm please provide a complete explanation on your letterhead and attach to your bid. Please provide for accounts payable purposes:

Tax Identification Number (Federal ID): _____

Remittance Address: _____

Financial Contact Name: _____ Financial Contact Phone Number: _____

Financial Contact Email Address: _____

I hereby state that I have read, understand and agree to be bound by all terms and conditions of this bid document.

SIGNED: _____ NAME: _____
(Type or Print)

TITLE: _____ DATE: _____

FIRM NAME: _____
(if any)

ADDRESS: _____
(Street address) (City) (State) (Zip)

PHONE: _____ FAX: _____

EMAIL ADDRESS: _____

FOR CITY USE ONLY - DO NOT WRITE BELOW

SECTION III
SPECIAL INSTRUCTIONS FOR RESIDENTIAL & LIGHT COMMERCIAL DEMOLITIONS

1. All demolition work shall comply with Chapter 9, Article VI, subsections 9-251 through 9-313 of the City of Kalamazoo Code of Ordinances, and all laws, rules and regulations as now written and as amended from time to time. In addition, all demolitions shall conform to the following general specifications. Additional specifications and requirement details are shown on the bid and award page.
2. The City will make reasonable efforts to close all included buildings and structures and to maintain them closed to casual entry from the time of Pre-Bid Inspection until issuance of the Notice To Proceed. Once the Notice to Proceed has been issued, it shall be the responsibility of the Contractor to provide and maintain site security.
3. All fixtures, fittings, furnishings, trash, and other materials in or upon the demolition site and all specified structures become the property of the successful bidder at the time of issuance of the Notice to Proceed.
4. All demolitions shall include removal of all structures (including detached accessory structures) at each site as well as poles, posts, interior fences, slabs on grade, private sidewalks and drives.
5. All demolitions shall include removal of all basement wall, floor, and footing materials and all sub-grade masonry structures (e.g. cisterns, dry wells, vaults, etc.) as specified or encountered during work.
6. Contractors shall **prevent migration of demolition dust** into areas adjacent to the project site by **continuous, generous, and effective application of water** or other effective measures during on-site demolition work **regardless of air temperature**. Any amending agents added to water used to control dust shall be listed as inert or non-polluting. Water used for dust control shall not migrate into or otherwise physically impact areas adjacent to the project site **unless prior written approval is obtained** from owners of that adjacent property after agreement on mitigating measures to prevent and/or reverse damage to that adjacent property. A copy of any such approval/agreement shall be presented to the City of Kalamazoo Project Manager prior to the commencement of demolition activity. No public water source will be available at the demolition site. Use of City hydrant water is very unlikely. Contractors may contact the **Water Division of Public Services (269-337-8729)** to discuss availability of bulk water at a central public tap.
7. Unless otherwise specified herein, all residential demolitions shall include all costs to remove any asbestos-containing materials (ACM) or other hazardous waste material present at each site. All removal shall be performed in strict conformance with Michigan Dept. of Public Health regulations, EPA regulations, DNRE regulations, OSHA regulations, the attached Special Demolition Requirements for Asbestos and Hazardous Material/Waste, and all other relevant laws, ordinances, and regulations as adopted and effective prior to the NOTICE OF AWARD. **Copies of all associated notices and required documentation shall be provided to the City prior to final invoicing.**

8. Trees, bushes, and other plantings on site having trunks measuring six (6) inches or less diameter at five (5) feet vertical distance above existing grade, may be removed to facilitate demolition. No other vegetation may be removed except as specified in the SCOPE OF WORK/PROJECT DESCRIPTION in Section III, or after other written authorization.
9. Unless instructed otherwise, trees marked by the City for removal by the demolition contractor shall be felled within the boundaries of project property. Trunks shall be cut no higher than two (2) feet above grade as needed to allow stump removal. Prior to any stump removal, a barricade shall be installed surrounding the stump sufficient to prevent flying debris from leaving the project site and to contain all wood chips to be generated. All wood chips shall be removed from the project site and disposed of properly. Stumps shall be removed to a depth of at least twelve (12) inches below final grade. The resulting depression/excavation shall be filled with top dirt and seeded as detailed below for the balance of the site.
10. Once demolition has begun and any site will be left unsupervised, a secure fence of at least four (4) feet in height shall be installed and maintained around the entire perimeter of that site so as to prevent unauthorized access to the site when left unsupervised until excavations have been substantially filled. The fence must be sufficiently visible in any light condition. NOTE: A site free of debris where the excavated area has been partially filled and there is no slope greater than a natural slope (45 degrees) need not be fenced when left unsupervised.
11. Adjacent sidewalks and other public areas shall be properly blocked and protected during demolition as needed by means of substantial barricades, fences, and signage. Barricades remaining during periods of darkness shall have lights.
12. Public streets shall not be blocked except as specifically approved in writing prior to such blockage by the Department of Public Works (269-337-8612).
13. Private streets or shared drives shall not be blocked except that the blockage is approved by each property owner in interest prior to the blockage. Written verification of all approvals shall be provided to the City prior to the blockage.
14. Prior to and during demolition and site restoration activities, public utility lines and equipment and other public improvements shall be protected to prevent damage or interruption of service.
15. The City of Kalamazoo will photo-document the condition of all public walks, curbs, and other public improvements in the vicinity of the demolition site immediately prior to issuance of the Notice To Proceed and will share those images and discuss conditions at the request of the contractor. Public sidewalks, curbs, or other improvements damaged by Contractor's equipment or otherwise as a result of demolition activities shall be promptly repaired or replaced at contractor's expense. Replacement sidewalks and curbs shall be constructed in accordance with standards and regulations of the Department of Public Works.
16. All materials shall be handled, stored, moved, removed and disposed of systematically as the demolition progresses to prevent the creation of a fire hazard or danger to the public. **Contractor shall list the site(s) that will be used for disposal of waste from each site on the required Application for Permit to Wreck. Copies of disposal tickets must be supplied to the City. Failure to provide this information will delay payment until received.**

17. All portions of buildings and property improvements shall be demolished and removed from the site unless otherwise agreed in writing. Prior to filling, Contractor shall arrange for an inspection of the site by the City to verify that all demolition materials have been removed and any utility lines have been properly capped and marked.
18. Water and sewer leads shall be properly capped or plugged in accord with the requirements of the Department of Public Works. Sewer lines shall be permanently sealed/plugged at least five (5) feet outside the perimeter of the building foundation. Water utility lines shall be sealed/capped at least five (5) feet outside the perimeter of the building foundation and marked by placement of a ferrous rod at least four feet in length extending vertically from the capped end of the water pipe to no more than six (6) inches below final grade.
19. Excavations shall be promptly filled with clean inorganic fill, compacted in lifts not exceeding eighteen (18) inches. The final (top) six (6) inches of fill shall consist of clean top soil neatly graded to match the existing perimeter topography of the site and raked in preparation for seeding.
20. All imported fill soil(s) shall be subject to the approval of the Demolition Project Manager.
21. All exposed earth shall be thoroughly seeded with grass seed consisting of approximately 70% tall fescue, 20% perennial rye, and 10% Kentucky blue grass applied at a rate of 100 pounds per acre, then covered with straw or other equivalent approved natural material sufficient to minimize soil erosion.
22. All bonds, permits, licenses, or certificates of insurance required for the performance of the work specified herein shall be obtained and paid for by the Contractor and proof of same provided to the Code Administration Division no later than ten (10) calendar days after Notice of Award. No work shall commence until all required permits, licenses have been obtained by the Contractor and, when required, approved by the City, and/or until all required fees have been paid. **NO PERMIT SHALL BE ISSUED UNTIL ALL DOCUMENTS REQUIRED BY THIS CONTRACT OR BY GOVERNING STATUTE, ORDINANCE, LAW, RULE OR REGULATION HAVE BEEN OBTAINED AND ALL REQUIRED FEES PAID.** Failure to meet any one or more of these requirements shall constitute breach of contract and justify cancellation of the contract by the City of Kalamazoo.

SECTION IV
SPECIAL REQUIREMENTS - DEMOLITION

1. ASBESTOS AND HAZARDOUS MATERIAL/WASTE

- 1.1 The City will provide information documenting the nature, amount(s), and location(s) of any asbestos or other hazardous waste or substances confirmed through professional inspection and analysis to be present at the project site.
- 1.2 During inspection of work site(s) by the bidder(s), each shall confirm presence of any asbestos or other hazardous waste material in, on, or near the building to be demolished that is included in the survey documents and shall make allowance for its abatement and/or removal in the lump sum price bid and state any and all sub-contractor(s) that may be required, see Bid & Award page(s).
- 1.3 In the event that unforeseen hazardous waste material is encountered by the contractor, work in that general area shall cease until a Demolition Change Order has been completed that details scope, method, and terms for its treatment.
- 1.4 Whether asbestos or any other hazardous material was included in the survey documents or discovered subsequent to Notice of Award, items 2 through 7 below must be followed.

2. SCOPE - HAZARDOUS WASTE MATERIAL

This project includes supplying all labor, materials, tools, equipment, supplies, permits, notices, receipts, disposal fees and all other incidental fees and costs associated with the lawful removal, transportation and disposal of hazardous waste material.

3. PRECAUTION

The Contractor shall use all due precaution in handling, removal, transportation, storage and disposal of all hazardous material to avoid any possibility of accident or harm to domestic animals, wildlife, air, water soils, the environment and to humans whatsoever.

4. TRANSPORTATION

The Contractor shall lawfully transport the hazardous material to the disposal site and to the temporary storage site, if needed. All licenses, fees and other incidental costs associated with transportation shall be the responsibility of the Contractor. The Contractor shall abide by all applicable load restrictions, traffic regulations and ordinances to ensure safe and proper transportation. The Contractor shall cover all of the hazardous material during transport to disposal site.

5. TEMPORARY STORAGE

The Contractor shall provide for lawful disposal of the hazardous material if needed. It is the responsibility of the Contractor to acquire any and all necessary approvals from all governmental units having jurisdiction over the temporary storage site. The temporary storage site selected by the Contractor shall be subject to the approval of the City.

6. DISPOSAL

The Contractor shall provide for lawful disposal of the hazardous material. All required notices shall be filed and all applicable state, federal, and local permits shall be secured by the Contractor prior to loading, unloading and disposal of the hazardous material at the earliest possible date without delay. The Contractor shall be required by the City to participate in a manifest system with the purpose of accounting for each load of hazardous material removed. The manifest forms will be supplied by the Contractor and will require the Contractor to secure the signature of the transporter and disposal site operator verifying that the hazardous material has been properly transported, received and disposed of. **Copies of all hazardous waste disposal manifests associated with this project must be submitted to the City by the demolition contractor prior to or along with final request for payment.** Any failure of the Contractor to account for each and every load of hazardous material shall be deemed to be a violation of the terms of this contract and just cause for default of contract and prosecution to the fullest extent possible under the law.

7. CONTAINERS

The Contractor shall supply containers for use in the temporary storage and/or transport of the hazardous material when required. Any container lining deemed necessary by the Contractor or the City for effective disposal shall be supplied by the Contractor. The Contractor shall furnish and use container covers for use in the transport and temporary storage if deemed necessary by the City or required by law and ordinance.

Any and all containers, as may be required by law, shall conform, be labeled, placed, moved, handled and transported in accordance with all local, state and federal laws, rules and regulations.

8. WAIVERS OF LIEN

Upon completion of all work and request for final payment, the Contractor shall furnish a 100% waiver of lien from each supplier and sub-contractor covering all items of the work. Failure to supply waivers of lien for the entire job upon completion and final payment request will be considered grounds for withholding final payment.

9. SUBCONTRACTORS

Contractors shall state on the Bid and Award pages any and all subcontractors to be associated with their bid, including the type work to be performed. Any and all subcontractors shall be bound by all of the terms, conditions and requirements of the contract; however, the prime Contractor shall be responsible for the performance of the total work requirements.

GENERAL CONDITIONS

1. PROJECT MANAGER

- 1.1 The Project Manager or his/her duly authorized representative shall have the duties and responsibilities as provided in the contract.
- 1.2 The Project Manager shall have the authority to reject any work or materials that do not conform to the contract and to decide questions or make interpretations that may arise from the contract documents.
- 1.3 The Contractor shall immediately report to the Project Manager any questionable or obvious error or omission that may be apparent in the contract documents and shall not proceed with work until the Project Manager or his/her representative has resolved the error or omission.
- 1.4 The Project Manger shall have authority to stop work whenever such stoppage may be necessary to ensure the proper execution of the contract.

2. DEMOLITION SCHEDULE AND COORDINATION

- 2.1 TIME IS OF THE ESSENCE in respect to the work contemplated herein, and the Contractor agrees to do the work covered by the contract in conformity with the provisions set forth herein. Failure on the part of the Contractor to complete the work within the stated time he/she has set for and agreed to herein, shall constitute default by the Contractor. Regardless of any other provision of this contract, if Contractor fails to complete the work within the time he/she has set forth and agreed to herein, the Contractor may be liable to the owners(s) for any damages incurred by the owner(s).
- 2.2 The Contractor shall supply the City with an agreeable work schedule before commencing work on this contract. This schedule shall detail beginning and completion dates for each major component of the project.
- 2.3 The Contractor shall coordinate and cooperate with all other contractors who may be working on the site in order to allow for the orderly progress of work being done.
- 2.4 The Contractor is required to keep the Project Manager fully informed of any proposed work that will tend to interfere with the existing operations at the site.
- 2.5 The Contractor shall schedule all work to accommodate the Homeowner and City's schedule. In the event Contractor's schedule falls on weekends, nights or overtime work is required, no additional compensation will be allowed. All work shall be part of this contract without regard to when it is done.
- 2.6 The Contractor is responsible to schedule all work to accommodate each individual homeowner. Please be sure to check all electrical connections to each garage, which also includes disconnecting any live charges. ***Note: This is for demolition of garages only and owners currently reside in each house.***

3. PROTECTION OF WORK

The Contractor shall maintain adequate protection of all his/her work from damage and shall protect all public and private abutting property from injury or loss arising in connection with this contract. He/She shall provide and maintain all barricades, lights, fences, watchpersons or other facilities necessary to protect all persons from danger or hazardous conditions resulting from the work in the contract.

4. PROTECTION OF PROPERTY

4.1 The Contractor shall confine his/her equipment and operations to those areas of the work site necessary for the completion of the work, or as authorized by the Project Manager. The Contractor shall protect and preserve from damage any facilities, utilities or features including trees, shrubs and turf that are not required to be disturbed by the scope of work.

4.2 The Contractor shall be responsible for determining the location of and for protecting from damage any utilities or other improvements.

5. REMOVAL OF RUBBISH

The Contractor shall daily remove all rubbish and accumulated materials due to his/her construction.

6. RESPONSIBILITY OF CONTRACTOR

6.1 Contractor shall be responsible for his/her own work and every part thereof and all work of every description used in connection with this contract. He/She shall specifically and distinctly assume and does assume all risk of damage from any action or operations under the contract or in connection with his/her work. He/She undertakes and promises to protect and defend the owner(s) against all claims on account any such damage or injury.

6.2 The contractor shall be held responsible for the satisfactory and complete execution of the work in accordance with the true intent of the specifications. He/She shall provide, without extra cost incidental items required as a part of his/her work even though not particularly specified or indicated.

6.3 The contractor shall personally superintend the work or shall have a competent person at the site at all times to act for him/her.

7. SITE SECURITY

The Contractor shall be responsible for job site security of all materials and tools provided by him/her and no claim for loss or damage will be considered by the City.

8. SITE ACCESS

The City will provide fair and reasonable access to the job site within the working schedules of both parties.

9. MATERIALS INSPECTION AND RESPONSIBILITY

- 9.1 The Project Manager shall have the right to inspect any materials to be used in carrying out the terms of the contract.
- 9.2 Any materials, equipment, components or completed work which does not comply with contract specifications or applicable city and state codes may be rejected by the City, and shall be replaced by the Contractor at no cost to the City.
- 9.3 Any reference in these documents to standard specifications shall mean the latest revisions of these specifications and shall become a part of this contract. Any part of the work not completely detailed in these documents, or referenced to a standard specification, shall be governed by the latest edition of the proper industry document.

10. GUARANTEE

The Contractor shall guarantee all of his/her work for a period of one (1) year following the date of final acceptance of the completed work and shall repair, replace or make good any materials or work that fail to function or perform or be found defective, without cost to the city.

11. SAFETY

The Contractor shall comply with all applicable OSHA and MIOSHA regulations.

12. UNDERGROUND UTILITIES

For protection of underground utilities, the Contractor shall dial Miss Dig at 1-800-482-7171 a minimum of 72 hours prior to excavating in the vicinity of utility lines. All “Miss Dig” participating members will thus be routinely notified. This does not relieve the Contractor of notifying utility owners who may not be part of the “Miss Dig” alert system.

13. FOR DEMOLITION CONTRACTS

- 13.1 All protection and control devices within the area of demolition shall be considered as incidental to the completion of the work and no extra payment, therefore, will be made. For purposes of this contract, the area of demolition shall be considered any area in which work is in such a stage of demolition so that safe travel of the public is affected.
- 13.2 Streets/roads shall remain open for access to frontage properties, as much as practicable, where such will not unduly interfere with the prosecution of the work. The portion of the streets open to through traffic shall be maintained in a passable condition. The procedures shall follow MDOT 6.31 Maintaining Traffic, except that City supplied signs shall be limited to detours. Maintaining traffic is considered to be incidental to the work and no extra payment, therefore, shall be made.

14. DOCUMENT FEES AND NUMBER OF DAYS

All bonds, permits, licenses or certifications of insurance required for the performance of the work specified herein shall be obtained and paid for by the Contractor, and proof of same provided to the Purchasing Director within ten (10) days after notification of the contract award; all work under the contract shall be completed in compliance with the Kalamazoo City Code within ninety (90) days of when all permits, licenses and certificates should have been obtained and all fees paid as stated above.

15. ORDINANCE

ALL DEMOLITION WORK SHALL COMPLY WITH CHAPTER 9, ARTICLE VI, Subsections 9-251 through 9-313 of the Kalamazoo Code, statutes, ordinances, laws, rules and regulations as now written and amended from time to time.

16. VIRTUAL PRE-BID MEETING & INSPECTION OF PROJECT SITE

Before submitting bids for his/her work, the Contractor shall be responsible for examining the work site and satisfying himself/herself as to the existing conditions under which he/she will be obligated to operate, or that in any way affects the work under this contract. No allowance shall be made subsequently, on behalf of the Contractor, for any negligence on his/her part. A virtual pre-bid meeting is scheduled for **October 18, 2022 @ 11:00 a.m.** Then proceed to project sites at your own pace, open until 4:00 p.m. Click [here](#) to register in advance for this Zoom meeting. Questions may be emailed to Roger Iveson at ivesonr@kalamazoo.org by **3:00 p.m. on October 24, 2022.**

17. QUESTIONS

Questions concerning the building(s) to be demolished, the demolition site, SCOPE OF WORK/PROJECT DESCRIPTION, SPECIAL INSTRUCTIONS FOR RESIDENTIAL & LIGHT COMMERCIAL DEMOLITIONS, or SPECIAL REQUIREMENTS-DEMOLITION or laws and ordinances governing the demolition work may be directed to Roger Iveson, City Building Official at ivesonr@kalamazoo.org or (269) 337-8560. Questions regarding the bid or award process may be directed to Monica Johnson, Buyer at johnsonm2@kalamazoo.org or (269) 337-8603.

**SECTION V
INDEMNITY AND INSURANCE**

Contractor, or any of their subcontractors, shall not commence work under this contract until they have obtained the insurance required under this paragraph, and shall keep such insurance in force during the entire life of this contract. All coverage shall be with insurance companies licensed and admitted to do business in the State of Michigan and acceptable to the City of Kalamazoo within ten (10) days of the Notice of Award. The requirements below should not be interpreted to limit the liability of the Contractor. All deductibles and SIR's are the responsibility of the Contractor.

The Contractor shall procure and maintain the following insurance coverage:

Workers' Compensation Insurance including Employers' Liability Coverage, in accordance with all applicable statutes of the State of Michigan.

Commercial General Liability Insurance on an "Occurrence Basis" with limits of liability not less than \$1,000,000 per occurrence and aggregate. Coverage shall include the following extensions: (A) Contractual Liability; (B) Products and Completed Operations; (C) Independent Contractors Coverage; (D) Broad Form General Liability Extensions or equivalent, if not already included and (E) XCU coverage if the nature of the contract requires XC or U work.

Automobile Liability in accordance with all applicable statutes of the State of Michigan, with limits of liability not less than \$1,000,000 per occurrence, combined single limit for Bodily Injury, and Property Damage. Coverage shall include all owned vehicles, all non-owned vehicles, and all hired vehicles.

Additional Insured: Commercial General Liability and Automobile Liability, as described above, shall include an endorsement stating that the following shall be *Additional Insureds*: The City of Kalamazoo, all elected and appointed officials, all employees and volunteers, all boards, commissions, and/or authorities and board members, including employees and volunteers thereof. It is understood and agreed that by naming the City of Kalamazoo as additional insured, coverage afforded is considered to be primary and any other insurance the City of Kalamazoo may have in effect shall be considered secondary and/or excess.

To the fullest extent permitted by law the Contractor agrees to defend, pay on behalf of, indemnify, and hold harmless the City of Kalamazoo, its elected and appointed officials, employees, agents and volunteers, and others working on behalf of the City of Kalamazoo against any and all claims, demands, suits, or loss, including all costs connected therewith, and for any damages which may be asserted, claimed, or recovered against or from the City of Kalamazoo, by reason of personal injury, including bodily injury or death and/or property damage, including loss of use thereof, which arises out of, or is in any way connected or associated with this contract.

Cancellation Notice: All policies, as described above, shall include an endorsement stating that it is understood and agreed that thirty (30) days, or ten (10) days for non-payment of premium, Advance Written Notice of Cancellation, Non-Renewal, Reduction, and/or Material Change shall be sent to: City of Kalamazoo, Purchasing Division, 241 W. South Street, Kalamazoo, MI 49007.

Proof of Insurance Coverage: The Contractor shall provide the City of Kalamazoo at the time that the contracts are returned by him/her for execution, or within 10 days of Notice of Award, whichever is earlier, a Certificate of Insurance as well as the required endorsements. In lieu of required endorsements, if applicable, a copy of the policy sections where coverage is provided for additional insured and cancellation notice would be acceptable. Copies or certified copies of all policies mentioned above shall be furnished, if so requested.

SECTION V
INDEMNITY AND INSURANCE
(Continued)

If any of the above coverages expire during the term of this contract, the Contractor shall deliver renewal certificates and/or policies to City of Kalamazoo at least ten (10) days prior to the expiration date.

Scope of Coverage: The above requirements and conditions shall not be interpreted to limit the liability of the Contractor under this Contract, but shall be interpreted to provide the greatest benefit to the City and its officers and employees. The above listed coverages shall protect the Contractor, its employees, agents, representatives and subcontractors against claims arising out of the work performed. It shall be the Contractor's responsibility to provide similar insurance for each subcontractor or to provide evidence that each subcontractor carries such insurance in like amount prior to the time such subcontractor proceeds to perform under the contract.

SECTION VI
TERMS AND CONDITIONS

1. AWARD OF CONTRACT

- A. This contract will be awarded to that responsible bidder whose bid, conforming to this solicitation, will be most advantageous to the City, price and other factors considered. The City reserves the right to accept or reject any or all bids and waive informalities and minor irregularities in bids received. Other factors include, as an example but not limited to, delivery time, conformance to specifications, incidental costs such as demurrage and deposits, etc.

Notification of award will be in writing by the Purchasing Director. Upon notification, the Contractor shall submit to the Purchasing/Risk Management Division all required insurance certificates (if required) and such other documentation as may be requested or required hereunder. Upon their receipt and subsequent approval by the City, the Purchasing Director will forward to the Contractor a written **NOTICE TO PROCEED**. Work shall **NOT** be started until such **NOTICE TO PROCEED** is received by the Contractor.

- B. Unilateral changes in bid prices by the bidder shall not be allowed. However, the City, at its sole option, reserves the right to negotiate with bidders in the event of, but not limited to:

- 1) No bids received;
- 2) A single bid being received; or
- 3) Prices quoted are over budget and/or unreasonable.

2. COMPLETE CONTRACT

This bid document together with its addenda, amendments, attachments and modifications, when executed, becomes the complete contract between the parties hereto, and no verbal or oral promises or representations made in conjunction with the negotiation of this contract shall be binding on either party.

3. SUBCONTRACTORS - NON-ASSIGNMENT

Bidders shall state in writing any and all sub-contractors to be associated with this bid, including the type of work to be performed. The Contractor shall cooperate with the City of Kalamazoo in meeting its commitments and goals with regard to maximum utilization of minority and women-owned business enterprises.

The Contractor hereby agrees and understands that the contract resulting from this solicitation shall not be transferred, assigned or sublet without prior written consent of the City of Kalamazoo.

4. TAXES

The City of Kalamazoo is exempt from all federal excise tax and state sales and use taxes. However, depending upon the situation, the vendor or contractor may not be exempt from said taxes and the City of Kalamazoo is making no representation as to any such exemption.

5. **INVOICING**

All original invoice(s) will be sent to the Finance Division, 241 W. South Street, Kalamazoo, MI 49007 or via email at apinvoice@kalamazoocity.org. Faxed copy of invoice(s) will not be accepted, unless it is to replace an original invoice that was lost in the mail. The Finance Division processes payments after receipt of an original invoice from the Contractor and approval by the department.

The City of Kalamazoo policy is to pay invoice(s) within 30 days from the receipt of the original invoice, if the services or supplies are satisfactory and the proper paperwork and procedures have been followed. In order to guarantee payment to the vendor on a timely basis, the vendor needs to receive a purchase order number before supplying the City of Kalamazoo with goods or services. All original, and copies of original invoice(s), will clearly state which purchase order they are being billed against.

The City of Kalamazoo is a government municipality and therefore is tax exempt from all sales tax. Our tax-exempt number is 38-6004627.

The vendor is responsible for supplying the Finance Division with a copy of their W-9 if they are providing a service to the City of Kalamazoo.

6. **PAYMENTS**

Unless otherwise specified by the City in this contract, the Contractor will be paid in not more than thirty (30) days after receipt of a properly executed invoice, the sum stipulated herein for supplies delivered and accepted, or service rendered and accepted. Payments are processed by the Budget & Accounting Division after receipt of an original invoice from the Contractor and approval by the department.

7. **CHANGES AND/OR CONTRACT MODIFICATIONS**

The City reserves the right to increase or decrease quantities, service or requirements, or make any changes necessary at any time during the term of this contract, or any negotiated extension thereof. Price adjustments due to any of the foregoing changes shall be negotiated and mutually agreed upon by the Contractor and the City.

Changes of any nature after contract award which reflect an increase or decrease in requirements or costs shall not be permitted without prior approval by the Purchasing Director. City Commission approval may also be required. **SUCH CHANGES, IF PERFORMED IN ADVANCE OF PURCHASING DIRECTOR APPROVAL, MAY BE SUBJECT TO DENIAL AND NON-PAYMENT.**

8. **LAWS, ORDINANCES AND REGULATIONS**

The Contractor shall keep himself/herself fully informed of all local, state and federal laws, ordinances and regulations in any manner affecting those engaged or employed in the work and the equipment used. Contractor and/or employees shall, at all times, serve and comply with such laws, ordinances and regulations.

Any permits, licenses, certificates or fees required for the performance of the work shall be obtained and paid for by the Contractor.

This contract shall be governed by the laws of the State of Michigan.

9. RIGHT TO AUDIT

The City or its designee shall be entitled to audit all of the Contractor's records, and shall be allowed to interview any of the Contractor's employees, throughout the term of this contract and for a period of three years after final payment or longer if required by law to the extent necessary to adequately permit evaluation and verification of:

- A. Contractor compliance with contract requirements,
- B. Compliance with provisions for pricing change orders, invoices or claims submitted by the Contractor or any of his payees.

10. HOLD HARMLESS

If the acts or omissions of the Contractor/Vendor or its employees, agents or officers, cause injury to person or property, the Contractor/Vendor shall defend, indemnify and save harmless the City of Kalamazoo, its agents, officials, and employees against all claims, judgments, losses, damages, demands, and payments of any kind to persons or property to the extent occasioned from any claim or demand arising therefrom.

11. DEFAULT

The City may at any time, by written notice to the Contractor, terminate this contract and the Contractor's right to proceed with the work, for just cause, which shall include, but is not limited to the following:

- A. Failure to provide insurance and bonds (when called for), in the exact amounts and within the time specified or any extension thereof.
- B. Failure to make delivery of the supplies, or to perform the services within the time specified herein, or any extension thereof.
- C. The unauthorized substitution of articles for those bid and specified.
- D. Failure to make progress if such failure endangers performance of the contract in accordance with its terms.
- E. Failure to perform in compliance with any provision of the contract.
- F. **Standard of Performance** - Contractor guarantees the performance of the commodities, goods or services rendered herein in accordance with the accepted standards of the industry or industries concerned herein, except that if this specification calls for higher standards, then such higher standards shall be provided.

Upon notice by the City of Contractor's failure to comply with such standards or to otherwise be in default of this contract in any manner following the Notice to Proceed, Contractor shall immediately remedy said defective performance in a manner acceptable to the City. Should Contractor fail to immediately correct said defective performance, said failure shall be considered a breach of this contract and grounds for termination of the same by the City.

In the event of any breach of this contract by Contractor, Contractor shall pay any cost to the City caused by said breach including but not limited to the replacement cost of such goods or services with another Contractor.

Standard of Performance (*cont.*)

The City reserves the right to withhold any or all payments until any defects in performance have been satisfactorily corrected.

In the event the Contractor is in breach of this contract in any manner, and such breach has not been satisfactorily corrected, the City may bar the Contractor from being awarded any future City contracts.

- G. All remedies available to the City herein are cumulative and the election of one remedy by the City shall not be a waiver of any other remedy available to the City either listed in this contract or available by operation of law.

12. INDEPENDENT CONTRACTOR

At all times, the Contractor, any of his/her employees, or his/her sub-contractors and their subsequent employees shall be considered independent contractors and not as City employees. The Contractor shall exercise all supervisory control and general control over all workers' duties, payment of wages to Contractor's employees and the right to hire, fire and discipline their employees and workers. As an independent contractor, payment under this contract shall not be subject to any withholding for tax, social security or other purposes, nor shall the Contractor or his/her employees be entitled to sick leave, pension benefit, vacation, medical benefits, life insurance or workers' unemployment compensation or the like.

13. PROJECT SUPERVISOR

The Contractor shall employ an individual to act as Project Supervisor. The Project Supervisor shall be available to the Contractor's workers and the Project Manager at all times by use of a cell phone, pager or other reliable means. The Project Supervisor shall prepare daily work plans for the employees, monitor employee performance, attendance and punctuality; and work closely with the City's Project Manager in assuring contract compliance.

14. MEETINGS

The Contractor and/or Project Supervisor shall be available to meet with the Department Head or Project Manager at a mutually agreeable time to discuss problems, issues or concerns relative to the contract. Either party may call a meeting at any time. When such a request for a meeting is made, the meeting date shall, in no case exceed five (5) working days after the request; and, if in the sole opinion of the Department Head, the severity of the circumstance warrants, no more than one (1) working day.

APPENDIX A
NON-DISCRIMINATION CLAUSE FOR ALL CITY OF KALAMAZOO CONTRACTS

The Contractor agrees to comply with the Federal Civil Rights Act of 1964 as amended; the Federal Civil Rights Act of 1991 as amended; the Americans With Disabilities Act of 1990 as amended; the Elliott-Larson Civil Rights Act, Act. No. 453, Public Act of 1976 as amended; the Michigan Handicappers Civil Rights Act, Act No. 220, Public Act of 1976 as amended, City Ordinance 1856 and all other applicable Federal and State laws. The Contractor agrees as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, sex, age, height, weight, marital status, physical or mental disability, family status, sexual orientation or gender identity that is unrelated to the individual's ability to perform the duties of the particular job or position. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer, recruitment advertising, layoff or termination; rates of pay or other forms of compensations; and selection for training, including apprenticeship.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, sex, age, height, weight, marital status, physical or mental disability family status, sexual orientation or gender identity that is unrelated to the individuals ability to perform the duties of the particular job or position.
3. If requested by the City, the Contractor shall furnish information regarding practices, policies and programs and employment statistics for the Contractor and subcontractors. The Contractor and subcontractors shall permit access to all books, records and accounts regarding employment practices by agents and representatives of the City duly charged with investigative duties to assure compliance with this clause.
4. Breach of the covenants herein may be regarded as a material breach of the contract or purchasing agreement as provided in the Elliott-Larsen Civil Rights Act and City Ordinance 1856.
5. The Contractor will include or incorporate by reference the provisions of the foregoing paragraphs 1 through 4 in every subcontract or purchase order unless exempted by the rules, regulations or orders of the Michigan Civil Rights Commission* and will provide in every subcontract or purchase order that said provision will be binding upon each subcontractor or seller.
6. The Contractor will not preclude a person with a criminal conviction from being considered for employment unless otherwise precluded by federal or state law. (for contracts over \$25,000)

The Elliott-Larson Civil Rights Act, Sec. 202 of Act. No. 453 of 1976 reads in part as follows:

Sec. 202. (1) An employer shall not:

- (a) Fail or refuse to hire, or recruit, or discharge or otherwise discriminate against an individual with respect to employment, compensation, or a term condition or privilege of employment because of religion, race, color, national origin, age, sex, height, weight or marital status.
- (b) Limit, segregate or classify an employee or applicant for employment in a way which deprives or tends to deprive the employee or applicant of an employment opportunity or otherwise adversely affects the status of an employee or applicant because of religion, race, color, national origin, age, sex, height, weight or marital status.
- (c) Segregate, classify or otherwise discriminate against a person on the basis of sex with respect to a term, condition or privilege of employment, including a benefit plan or system.

* Except for contracts entered into with parties employing less than three employees. 1-2010

APPENDIX C
FEDERAL PROVISIONS FOR CDBG PROJECTS

1. EQUAL EMPLOYMENT OPPORTUNITY

The contractor and any subcontractors shall comply with E.O. 11246, "Equal Employment Opportunity," as amended by E.O. 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and as supplemented by regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

2. RIGHTS TO INVENTIONS MADE UNDER A CONTRACT OR AGREEMENT

Contracts or agreements for the performance of experimental, developmental, or research work shall provide for the rights of the Federal Government and the recipient in any resulting invention in accordance with 37 CFR part 401, "Rights to Invention Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

3. CLEAN AIR ACT (42 U. S.C. 7401 ET SEQ.) AND THE FEDERAL WATER POLLUTION CONTROL ACT (33 U.S.C. 1251 et seq.), as amended

For contracts and subcontracts of amounts in excess of \$100,000 the contractor or subcontractor shall comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401 et seq.). Violations shall be reported to the Federal awarding agency and the Regional Agency (EPA).

4. BYRD ANTI-LOBBYING AMENDMENT (31 U.S.C. 1352)

Contractors who apply or bid for an award of \$100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient.

5. DEBARMENT AND SUSPENSION (E.O.S 12549 AND 12689)

No contract shall be made to parties listed on the General Services Administration's List of Parties Excluded from Federal Procurement or Non-procurement Programs in accordance with E.O.s 12549 and 12689, "Debarment and Suspension." This list contains the names of parties debarred, suspended or otherwise excluded by agencies, and contractors declared ineligible under statutory or regulatory authority other than E.O. 12549. Contractors with awards that exceed the small purchase threshold shall provide the required certification regarding its exclusion status and that of its principal employees.

6. CONFLICT OF INTEREST

The bidder certifies by their signature on the bid form that they have not participated in any arrangement or agreement with; nor offered anything of value to or received anything from an official or employee of the City that would tend to destroy or hinder free competition.

7. **DRUG FREE WORKPLACE**

The Contractor will continue to provide a drug-free workplace by:

- 7.1 Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
- 7.2 Establishing an ongoing drug-free awareness program to inform employees about –
 - (a) The dangers of drug abuse in the workplace;
 - (b) The grantee's policy of maintaining a drug-free workplace;
 - (c) Any available drug counseling, rehabilitation, and employee assistance programs; and
 - (d) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- 7.3 Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph 1;
- 7.4 Notifying the employee in the statement required by paragraph 1 that, as a condition of employment under the grant, the employee will -
 - (a) Abide by the terms of the statement; and
 - (b) Notify the employer in writing of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five calendar days after such conviction;
- 7.5 Notifying the agency in writing, within ten calendar days after receiving notice under subparagraph 4(b) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide notice, including position title, to every grant officer or other designee on whose grant activity the convicted employee was working, unless the Federal agency has designated a central point for the receipt of such notices. Notice shall include the identification number(s) of each affected grant;
- 7.6 Taking one of the following actions, within 30 calendar days of receiving notice under subparagraph 4(b), with respect to any employee who is so convicted:
 - (a) Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or
 - (b) Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;
- 7.7 Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs 8.1 - 8.6.

8. **THE CONTRACTOR AND ITS CONTRACT WORK HOURS AND SAFETY STANDARDS ACT—OVERTIME COMPENSATION (JULY 2005)**

(a) *Overtime requirements.* No Contractor or subcontractor employing laborers or mechanics (see Federal Acquisition Regulation [22.300](#)) shall require or permit them to work over 40 hours in any workweek unless they are paid at least 1 and 1/2 times the basic rate of pay for each hour worked over 40 hours.

(b) *Violation; liability for unpaid wages; liquidated damages.* The responsible Contractor and subcontractor are liable for unpaid wages if they violate the terms in paragraph (a) of this clause. In addition, the Contractor and subcontractor are liable for liquidated damages payable to the Government. The Contracting Officer will assess liquidated damages at the rate of \$10 per affected employee for each calendar day on which the employer required or permitted the employee to work in excess of the standard workweek of 40 hours without paying overtime wages required by the Contract Work Hours and Safety Standards Act.

(c) *Withholding for unpaid wages and liquidated damages.* The Contracting Officer will withhold from payments due under the contract sufficient funds required to satisfy any Contractor or subcontractor liabilities for unpaid wages and liquidated damages. If amounts withheld under the contract are insufficient to satisfy Contractor or subcontractor liabilities, the Contracting Officer will withhold payments from other Federal or federally assisted contracts held by the same Contractor that are subject to the Contract Work Hours and Safety Standards Act.

(d) Payrolls and basic subcontractors shall maintain payrolls and basic payroll records for all laborers and mechanics working on the contract during the contract and shall make them available to the Government until 3 years after contract completion. The records shall contain the name and address of each employee, social security Davis-Bacon Act.

(2) The Contractor and its subcontractors shall allow authorized representatives of the Contracting Officer or the Department of Labor to inspect, copy, or transcribe records maintained under paragraph (d)(1) of this clause. The Contractor or subcontractor also shall allow authorized representatives of the Contracting Officer or Department of number, labor classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. The records need not duplicate those required for construction work by Department of Labor regulations at 29 CFR 5.5(a)(3) implementing the Davis Labor to interview employees in the workplace during working hours.

(e) *Subcontracts.* The Contractor shall insert the provisions set forth in paragraphs (a) through (d) of this clause in subcontracts that may require or involve the employment of laborers and mechanics and require subcontractors to include these provisions in any such lower tier subcontracts. The Contractor shall be responsible for compliance by any subcontractor or lower-tier subcontractor with the provisions set forth in paragraphs (a) through (d) of this clause.

9. **ACCESS TO RECORDS**

All records shall be accessible to the City at reasonable times and under reasonable conditions for the purpose of determining compliance with this Agreement. If the City desires to audit the Sub-recipient's books, it may do so and may, at its discretion, retain an independent certified public accountant (CPA) to audit the Sub-recipient's books to determine whether there is compliance with this Agreement and with federal, state, and local laws and regulations.

10. **COPELAND "ANTI-KICKBACK" ACT CLAUSE**

The Copeland "Anti-Kickback" Act prohibits federal contractors or subcontractors engaged in building construction or repair from inducing an employee to give up any part of the compensation to which he or she is entitled under his or her employment contract and requires such contractors and subcontractors to submit weekly statements of compliance.

CITY OF KALAMAZOO

HUD SECTION 3 POLICY

GENERAL INFORMATION

What is the purpose of Section 3?

To ensure that employment and other economic opportunities generated by certain HUD financial assistance shall, to the greatest extent feasible, and consistent with existing Federal, State and local laws and regulations, be directed to low- and very low-income persons, particularly those who are recipients of government assistance for housing, and to businesses which provide economic opportunities to low- and very low-income persons.

Funding Programs Impacted

Most Housing and Urban Development (HUD) funded programs must meet the requirements of Section 3. Each program should be carefully reviewed to determine if Section 3 is applicable.

Who does it apply to?

- Recipient (City of Kalamazoo HUD funded activities)
- City Contractors and/or Subcontractors for HUD funded construction
- Subrecipients/developers receiving HUD grant funds from the City

Who will enforce it?

City of Kalamazoo

When does it apply (triggers)?

The requirements of Section 3 apply:

- To the entire project that is funded, regardless of whether the activity is fully or partially funded, with Section 3 covered assistance.
- If it is necessary to hire new workers or contract work out to complete the contracted job.

What is a Section 3 Resident?

A Section 3 Resident must:

- Reside in the metropolitan area or non-metropolitan area in which the Section 3 covered assistance is expended.
- Be low income with a gross household income less than 80% of the area median income as established by HUD.

Income limits can be found at: <http://www.huduser.org/portal/datasets/pdrdatas.html>

What is a Section 3 Business?

A Section 3 Business is one of the following:

- Businesses that are 51 percent or more owned by Section 3 Residents;
- Businesses whose permanent, full-time employees include persons, at least 30 percent of whom are currently Section 3 Residents, or within three years of the date of first employment with the firm were Section 3 Residents; or
- Businesses that provide evidence of a commitment to subcontract in excess of 25 percent of the dollar amount of all subcontracts to be awarded to businesses that meet the qualifications described above.

NUMERICAL GOALS

The City of Kalamazoo will make every effort to meet the following goals established by HUD through 24 CFR 135.30 when contracting for projects or hiring positions that are funded by HUD and for which Section 3 is applicable:

1. New hires – 30 percent of all new hires funded with HUD grant monies will be Section 3 Residents.
2. Contracts
 - 10 percent of total dollar amount of all Section 3 covered construction contracts.
 - 3 percent of total dollar amount of all other Section 3 non-construction covered contracts.

PREFERENCE POLICY (*pending Commissioner Approval*)

Preference shall be given to Section 3 Businesses when awarding contracts, funded in whole or in part, by HUD grant monies according to the following system:

1. When a Section 3 covered contract is to be awarded based upon the lowest price of a responsive and responsible bidder, the following shall apply in order of preference:
 - a. The contract shall be awarded to the lowest bid of the most responsive and responsible Section 3 Business located in one of the CDBG eligible Census tracts and if their bid is no more than 10 percent higher than the lowest accepted bid.
 - b. The contract shall be awarded to the lowest bid of the most responsive and responsible Section 3 Business if their bid is no more than 10 percent higher than the lowest accepted bid.
 - c. If no responsive bid by a qualified Section 3 Business is within 10 percent of the lowest accepted bid, the award shall be made to the lowest bid.
2. Where a Section 3 contract is to be awarded based on factors other than price:
 - a. The request for proposals must clearly define the professional services needed, identifying all qualifications to be considered including price.
 - b. A rating system for the assignment of points shall be included in the request for proposals to evaluate the qualifications of the proposal.
 - c. 10 percent of the total number of rating points will be set aside for Section 3 Businesses located within an eligible CDBG Census tract and five percent shall be set aside for Section 3 Businesses located outside eligible Census tracts.
 - d. The contract shall be awarded to the most responsive and responsible firm whose proposal is the most advantageous considering price and all other factors specified in the rating system.

ADDITIONAL REQUIREMENTS

1. Section 3 Businesses:

- a. The opportunity to register and apply as a Section 3 Business will be a part of the initial pre-bid meeting as well a part of the bid package. Section 3 certification forms for both the business and resident will be a part of the bid package.
- b. Organizations claiming to be a Section 3 Business are required to complete the necessary certifications and include them with their bid package to be considered for the preference policy. *Certification as a Section 3 Business must be notarized.*

2. Section 3 Residents:

Section 3 Residents must fill out the required resident form and be able to provide proof, if requested.

3. Requirements of the Contractor/Business:

- a. Actively recruit Section 3 Residents for positions required to fulfill their contract.
- b. Verify eligibility of potential employees.
- c. Report to City the total number of employees working on the HUD-assisted project.
- d. Report to City the total number of employees working on the HUD-assisted project that meet Section 3 requirements.
- e. Report to City the total number of new hires/trainees hired to work on the HUD-assisted project and grant that meet Section 3 requirements.
- f. Report to City the efforts made to direct employment and other economic opportunities generated by HUD funding to Section 3 Residents and Businesses.

4. Filing Complaints:

Any Section 3 Resident, Business or City of Kalamazoo resident may file a complaint alleging noncompliance with Section 3. Complaints should be filed with the Assistant Secretary for Fair Housing and Equal Opportunity, Department of Housing and Urban Development, Washington, DC 20410.

5. Failure to Comply:

The City of Kalamazoo will not enter into an agreement with a contractor found to be in violation of applicable statutes and /or HUD regulations

Sanctions include:

- a. Debarment (if contractor)
- b. Suspension of funds
- c. Limited denial of participation in HUD funded programs

6. City of Kalamazoo Reporting Requirements:

The City of Kalamazoo Community Planning and Development Department is required to provide the Section 3 Summary Report (form 60002) to the U. S. Department of Housing and Urban Development on an annual basis.

City of Kalamazoo
HUD SECTION 3 BUSINESS AFFIDAVIT
Businesses Claiming Status as a Section 3 Business

NAME OF BUSINESS:

ADDRESS OF BUSINESS:

CONTACT PERSON:

TELEPHONE NUMBER/ E-MAIL ADDRESS:

LOCAL JURISDICTION AND PROJECT

NAME _____

DEFINITIONS:

Section 3 Business is a business that meets one of the following criteria:

- a) A business where at least 51 percent is owned by Section 3 residents; or
- b) A business where at least 30 percent of the permanent, full-time employees are currently Section 3 residents, or within three years of the date of first employment with the business were Section 3 residents; or
- c) A business that provides evidence of a commitment to subcontract in excess of 25 percent of the dollar award of all subcontracts to businesses that meet the qualifications set forth in paragraphs (a) or (b) above.

Section 3 Area Resident is defined as follows:

- a) A public housing resident; or
- b) An individual who resides in the project area (local jurisdiction) and who is considered a low-income person as defined by HUD (any person with a gross household income less than 80 percent of the area median income, which is adjusted for household size).

FY2019 Income Limits

FY 2019 Income Limits Summary

Selecting any of the buttons labeled "Explanation" will display detailed calculation steps for each of the various parameters.

FY 2019 Income Limit Area	Median Family Income Explanation	FY 2019 Income Limit Category	Persons in Family							
			1	2	3	4	5	6	7	8
Kalamazoo-Portage, MI MSA	\$73,900	Very Low (50%) Income Limits (\$) Explanation	25,900	29,600	33,300	36,950	39,950	42,900	45,850	48,800
		Extremely Low Income Limits (\$)* Explanation	15,550	17,750	21,330	25,750	30,170	34,590	39,010	43,430
		Low (80%) Income Limits (\$) Explanation	41,400	47,300	53,200	59,100	63,850	68,600	73,300	78,050

SECTION 3 BUSINESS STATUS:

1. Type of Business:
 - Corporation
 - Partnership
 - Sole Proprietorship
 - Joint Venture

2. Type of Section 3 Business:
 - 51 percent owned by Section 3 residents
 - 30 percent of employees are Section 3 residents
 - 25 percent of subcontracts will go to Section 3 businesses

3. For business claiming Section 3 status where 51 percent is owned by Section 3 residents attach a list of Section 3 owners and their percentage of ownership in the business.

4. For business claiming Section 3 status where at least 30 percent of their workforce are currently Section 3 residents or were Section 3 eligible residents within 3 years of date of first employment with the business attached the following:
 - a. List of all current full-time employees
 - b. List of all employees claiming Section 3 status and date of employment

5. For business claiming Section 3 status by subcontracting 25 percent of the dollar awarded to qualified Section 3 business attach a list of subcontracted Section 3 businesses, how they qualify as a Section 3 business and the subcontract amount.

VERIFICATION:

Under penalty of perjury, I certify that I am the _____ (Title)
of the Company, that I am authorized by the Company to execute this affidavit on its behalf, that I have
personal knowledge of the certifications made in this affidavit and that the same are true.

Name (*signature*)

Name (*printed*)

State of _____ County of _____

Subscribed and sworn to before me this _____ day of _____,

Notary Public

My Commission Expires: _____



ASBESTOS REPORTS
(1401 N Burdick St, 1820 N Burdick St, 1852 S Burdick)

DEMOLITION OF 3 STRUCTURES

BID REFERENCE# 91240-016.0



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



Client Name:	City of Kalamazoo
Project Name:	Residential Asbestos Survey
Project Number:	188BS22480
Project Site Address (Subject Property):	1401 N Burdick, Kalamazoo, MI
Parcel Number:	06-22-195-004
Date of Site Visit:	7/20/22
Asbestos Inspection Performed by:	Andrew DeLodder (A48677)
Asbestos Inspector's Signature:	<i>Andrew DeLodder</i>
Areas Not Accessible:	All Areas Accessible
Number of Floors:	1 + Basement
Asbestos Present (Yes/No/Other):	Yes

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

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

**TABLE I
Asbestos-Containing Materials**

ID#	MATERIAL	LOCATION	QUANTITY	RESULT	NESHAP CATEGORY
6- EC -A,B,C	Exterior Caulk- Gray, On Electrical Penetration	EA-2	1 SF	PLM 2% Chrysotile	CAT II
9-WG- A,B,C	Window Glaze- White, On basement Wood Windows, Located Under Plywood	EA-3	2 WINDOWS	PLM 2% Chrysotile	CAT II
18-SC-A,B,C	Stack Cement- East Stack	FS-5	5 SF	PLM 2% Chrysotile	CAT II
19-SC-A,B,C	Stack Cement- West Stack	FS-18	5 SF	PLM 2% Chrysotile	CAT II
21-MB-A,B,C	Millboard, Fastened to Ceiling Above the HVAC Equipment	FS-4,7	10 SF	PLM 40% Chrysotile	RACM
22-DW-A,B,C	Duct Wrap- On Ducts and Vents	FS-7,12,13,14,15,16	40 SF	PLM 30% Chrysotile	RACM
26-MLF-A,B,C	Multi-Layer Floor	FS-14	55 SF	Mastic- PLM 2% Chrysotile Fibrous Backing- PLM 15% Chrysotile	CAT I
31-CA-A,B,C	Construction Adhesive- Gray, On CMU Block Under AC Unit	EA-2	5 SF	PLM 2% Chrysotile (Layer 1 Only)	CAT II
38-BM-A,B,C	Block Mortar- Stone Foundation	FS-8	70 SF	PLM 3% Chrysotile	CAT II

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

sampling identified friable and non-friable suspect materials.

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

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

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

TABLE II
Suspect Asbestos-Containing Materials

HA/ID#	MATERIAL	LOCATION	RESULT
1-RM-A,B,C	Roofing Material- Roof Over East Entry Door	EA-1	ND
2-RM-A,B,C	Roofing Material- Asphalt Shingle Roof on Pitched Truss	EA-5	ND
3-RM-A,B,C	Roofing Material- Flat, Cold, Tar, Asphalt Flat Roof	EA-5	ND
4-RM-A,B,C	Roofing Material- Roof Over North Service Door	FS-4	ND
5-EC-A,B,C	Exterior Caulk- Bead of White Caulk Around the Perimeter of the Door Frames	EA-1, 4	ND
6- EC -A,B,C	Exterior Caulk- Gray, On Electrical Penetration	EA-2	PLM 2% Chrysotile
7-EC-A,B,C	Exterior Caulk- Gray, Seems Between AC Units and Window Void	EA-2,3,4	ND
8-WG-A,B,C	Window Glaze- Red, On Multi- Panel Metal Windows, Located Under Plywood	EA-1	ND
9-WG- A,B,C	Window Glaze- White, On basement Wood Windows, Located Under Plywood	EA-3	PLM 2% Chrysotile
10-WG-A,B,C	Window Glaze- 1 st Floor, Multi-Pane Wood Windows (Some Behind CMU Block)	EA-2,4	ND
11-WG-A,B,C	Window Glaze	EA-3, 4	ND
12-PL-A,B,C	Plaster- On Wallboard	FS- 9, 13	ND
13-PL-A,B,C	Plaster- On Stack Block	FS-7	ND

14-TPL-A,B,C	Textured Plaster- Popcorn	FS- 9, 13, 17	ND
15-TPL-A,B,C	Textured Plaster- Rough, On Ceiling (Above Drop Ceiling)	FS-12	ND
16-FB-A,B,C	Fiberboard- Above Drop Ceiling	FS-11	ND
17-WBS-A,B,C	Wallboard System	FS- 1,2,3,6,8,10,11,12, 13,14,15,16,17	ND
18-SC-A,B,C	Stack Cement- East Stack	FS-5	PLM 2% Chrysotile
19-SC-A,B,C	Stack Cement- West Stack	FS-18	PLM 2% Chrysotile
20-VD-A,B,C	Vibration Dampener- Gray on HVAC	FS-7	ND
21-MB-A,B,C	Millboard, Fastened to Ceiling Above the HVAC Equipment	FS-4,7	PLM 40% Chrysotile
22-DW-A,B,C	Duct Wrap- On Ducts and Vents	FS- 7,12,13,14,15,16	PLM 30% Chrysotile
23-FT-A,B,C	Floor Tile- Beige 9" Tiles, Top Landing, Closet, Under Carpet	FS-9	ND
24-FS-A,B,C	Floor Sheeting- On Stairs to Basement, Middle Landing, & Stairs to Top Landing- Under Carpet	FS-9	ND
25-FT-A,B,C	Floor Tile 9" Gray	FS-10	ND
26-MLF-A,B,C	Multi-Layer Floor	FS-14	Mastic-PLM 2% Chrysotile Fibrous Backing- PLM 15% Chrysotile
27-FS-A,B,C	Floor Sheeting- Faux Stone Pattern	FS-17	ND
28-CP-A,B,C	Ceiling Panel- Fiberglass with Vinyl Cover- Debris	FS-7	ND
29-CP-A,B,C	Ceiling Panel- Fiberglass with Cloth Cover	FS-11,12,16,17	ND
30-CP-A,B,C	Ceiling Panel- Pinhole and Fissure	FS-17	ND

31-CA-A,B,C	Construction Adhesive- Gray, On CMU Block Under AC Unit	EA-2	PLM 2% Chrysotile (Layer 1 Only)
32-CA-A,B,C	Construction Adhesive-Beige, Under Wood Trim	FS-12	ND
33-CA-A,B,C	Construction Adhesive-Black, Under Wall panel	FS-15	ND
34-CA-A,B,C	Construction Adhesive- Beige, Under Wall Panel	FS-17	ND
35-BM-A,B,C	Block Mortar- Exterior Siding CMU Block	EA-1,2,3,4	ND
36-BM-A,B,C	Block Mortar- Window Patch CMU Block	EA-2,4	ND
37-BM-A,BC	Block Mortar- Stack	FS-5	ND
38-BM-A,B,C	Block Mortar- Stone Foundation	FS-8	PLM 3% Chrysotile
39-BM-A,B,C	Block Mortar- Chimney	FS-18	ND
40-CC-A,B,C	Concrete Chip- Exterior	EA-1,4	ND
41-CC-A,B,C	Concrete Chip- basement Floor	FS- 1,2,3,4,6,7,8	ND
42-RI-A,B,C	Rolled-In-Insulation- Yellow with Paper Backing	FS- 9,10,11,12,14,15,1 7	ND
43-CB-A,B,C	Cove Base 4" Brown (Some Pink)	FS-2,3,4,16	ND
44-CM-A,B,C	Carpet Mastic	FS-10,11,12,13	ND
45-RT-A,B,C	Roofing Tar- On Roof Penetrations & Stacks	EA-5	ND

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

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

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

Contractors working in an area where asbestos is present must be informed of the type and location of ACMs. Abatement of ACMs, including non-friable ACMs, must be performed by a

Michigan licensed, certified and registered asbestos abatement contractor in accordance with state and federal Occupational Safety and Health Administration (OSHA) and local air quality management regulations.

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

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

MATERIAL	LOCATION	APPROXIMATE QUANTITY
CFC's Air Conditioners/ Refrigerators/ Freezers/ Dehumidifiers	FS-11, FS-12, FS-17	4
Exit Signs	FS- 10, FS-11	2
Fire Extinguishers	EA-4	1
Fluorescent/ HID Light Fixtures/ Bulbs/ Ballasts	FS-11, FS-12, FS-7	30
Misc. Items	FS-7	10
Paint Cans	FS-7	5
Smoke Detectors	FS-17	1
Thermostats	FS-11	1
Tires	EA-4	1
Exterior Debris Piles and/or Evidence of Dumping	EA-4	2
Interior Debris Piles and/or Evidence of Dumping	FS-7	1

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

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

DESCRIPTION	DESIGNATION
Interior Functional Spaces	
Basement	FS-1, 2,3,4,5,6,7,8,9
1 st Floor	FS-9,10,11,12,13,14,15,16,17,18
Exterior Areas	
Outside Surrounding	EA-1,2,3,4

RECOMMENDATIONS:

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

up, dislodge, or similarly disturb the material or preclude access to the material for subsequent removal.

ACM need not be removed before demolition if it:

(i) Is a Category I non-friable ACM that is not friable.

(ii) Is on a facility component that is encased in concrete or other similarly hard material and is adequately wet whenever exposed during demolition.

(iii) Was not accessible for testing and therefore was not discovered until after demolition began and, as a result of the demolition, cannot be safely removed. If not removed for safety reasons, the exposed RACM and any asbestos-contaminated debris must be treated as asbestos-containing waste material and kept adequately wet at all times until disposed of.

(iv) Is a Category II non-friable ACM and the probability is low that the material will become crumbled, pulverized, or reduced to powder during demolition.

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

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

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

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

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

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

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

Prior to demolition, the following is recommended:

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

Federal Requirements prior to demolition.

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

LIMITATIONS:

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

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

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

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

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

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

ATTACHMENT A

LABORATORY REPORTS AND CHAIN OF CUSTODY



**ENVIRONMENTAL TESTING
LABORATORIES, INC.**

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

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

ETL Job: 249474
Client Project: N/A
Report Date: 7/27/2022

Attention: Robert Smith
Project Location: 1401 N Burdick Street, Kalamazoo MI

Lab Sample Number	Client Sample Number	Sample Type	Completed
1378006	1-RM-A	Asbestos	07/26/2022
1378007	1-RM-B	Asbestos	07/26/2022
1378008	1-RM-C	Asbestos	07/26/2022
1378009	2-RM-A	Asbestos	07/26/2022
1378010	2-RM-B	Asbestos	07/26/2022
1378011	2-RM-C	Asbestos	07/26/2022
1378012	3-RM-A	Asbestos	07/26/2022
1378013	3-RM-B	Asbestos	07/26/2022
1378014	3-RM-C	Asbestos	07/26/2022
1378015	4-RM-A	Asbestos	07/26/2022
1378016	4-RM-B	Asbestos	07/26/2022
1378017	4-RM-C	Asbestos	07/26/2022
1378018	5-EC-A	Asbestos	07/26/2022
1378019	5-EC-B	Asbestos	07/26/2022
1378020	5-EC-C	Asbestos	07/26/2022
1378021	6-EC-A	Asbestos	07/26/2022

Lab Sample Number	Client Sample Number	Sample Type	Completed
1378022	6-EC-B	Asbestos	07/26/2022
1378023	6-EC-C	Asbestos	07/26/2022
1378024	7-EC-A	Asbestos	07/26/2022
1378025	7-EC-B	Asbestos	07/26/2022
1378026	7-EC-C	Asbestos	07/26/2022
1378027	8-WG-A	Asbestos	07/26/2022
1378028	8-WG-B	Asbestos	07/26/2022
1378029	8-WG-C	Asbestos	07/26/2022
1378030	9-WG-A	Asbestos	07/26/2022
1378031	9-WG-B	Asbestos	07/26/2022
1378032	9-WG-C	Asbestos	07/26/2022
1378033	10-WG-A	Asbestos	07/26/2022
1378034	10-WG-B	Asbestos	07/26/2022
1378035	10-WG-C	Asbestos	07/26/2022
1378036	11-WG-A	Asbestos	07/26/2022
1378037	11-WG-B	Asbestos	07/26/2022
1378038	11-WG-C	Asbestos	07/26/2022
1378039	12-PL-A	Asbestos	07/26/2022
1378040	12-PL-B	Asbestos	07/26/2022
1378041	12-PL-C	Asbestos	07/26/2022
1378042	12-PL-D	Asbestos	07/26/2022
1378043	12-PL-E	Asbestos	07/26/2022
1378044	13-PL-A	Asbestos	07/26/2022
1378045	13-PL-B	Asbestos	07/26/2022
1378046	13-PL-C	Asbestos	07/26/2022
1378047	14-TPL-A	Asbestos	07/26/2022

Lab Sample Number	Client Sample Number	Sample Type	Completed
1378048	14-TPL-B	Asbestos	07/26/2022
1378049	14-TPL-C	Asbestos	07/26/2022
1378050	15-TPL-A	Asbestos	07/26/2022
1378051	15-TPL-B	Asbestos	07/26/2022
1378052	15-TPL-C	Asbestos	07/26/2022
1378053	16-FB-A	Asbestos	07/26/2022
1378054	16-FB-B	Asbestos	07/26/2022
1378055	16-FB-C	Asbestos	07/26/2022
1378056	17-WBS-A	Asbestos	07/26/2022
1378057	17-WBS-B	Asbestos	07/26/2022
1378058	17-WBS-C	Asbestos	07/26/2022
1378059	18-SC-A	Asbestos	07/26/2022
1378060	18-SC-B	Asbestos	07/26/2022
1378061	18-SC-C	Asbestos	07/26/2022
1378062	19-SC-A	Asbestos	07/26/2022
1378063	19-SC-B	Asbestos	07/26/2022
1378064	19-SC-C	Asbestos	07/26/2022
1378065	20-VD-A	Asbestos	07/26/2022
1378066	20-VD-B	Asbestos	07/26/2022
1378067	20-VD-C	Asbestos	07/26/2022
1378068	21-MB-A	Asbestos	07/26/2022
1378069	21-MB-B	Asbestos	07/26/2022
1378070	21-MB-C	Asbestos	07/26/2022
1378071	22-DW-A	Asbestos	07/26/2022
1378072	22-DW-B	Asbestos	07/26/2022
1378073	22-DW-C	Asbestos	07/26/2022

Lab Sample Number	Client Sample Number	Sample Type	Completed
1378074	23-FT-A	Asbestos	07/26/2022
1378075	23-FT-B	Asbestos	07/26/2022
1378076	23-FT-C	Asbestos	07/26/2022
1378077	24-FS-A	Asbestos	07/26/2022
1378078	24-FS-B	Asbestos	07/26/2022
1378079	24-FS-C	Asbestos	07/26/2022
1378080	25-FT-A	Asbestos	07/27/2022
1378081	25-FT-B	Asbestos	07/27/2022
1378082	25-FT-C	Asbestos	07/27/2022
1378083	26-MLF-A	Asbestos	07/27/2022
1378084	26-MLF-B	Asbestos	07/27/2022
1378085	26-MLF-C	Asbestos	07/27/2022
1378086	27-FS-A	Asbestos	07/27/2022
1378087	27-FS-B	Asbestos	07/27/2022
1378088	27-FS-C	Asbestos	07/27/2022
1378089	28-CP-A	Asbestos	07/27/2022
1378090	28-CP-B	Asbestos	07/27/2022
1378091	28-CP-C	Asbestos	07/27/2022
1378092	29-CP-A	Asbestos	07/27/2022
1378093	29-CP-B	Asbestos	07/27/2022
1378094	29-CP-C	Asbestos	07/27/2022
1378095	30-CP-A	Asbestos	07/27/2022
1378096	30-CP-B	Asbestos	07/27/2022
1378097	30-CP-C	Asbestos	07/27/2022
1378098	31-CA-A	Asbestos	07/27/2022
1378099	31-CA-B	Asbestos	07/27/2022

Lab Sample Number	Client Sample Number	Sample Type	Completed
1378100	31-CA-C	Asbestos	07/27/2022
1378101	32-CA-A	Asbestos	07/27/2022
1378102	32-CA-B	Asbestos	07/27/2022
1378103	32-CA-C	Asbestos	07/27/2022
1378104	33-CA-A	Asbestos	07/27/2022
1378105	33-CA-B	Asbestos	07/27/2022
1378106	33-CA-C	Asbestos	07/27/2022
1378107	34-CA-A	Asbestos	07/27/2022
1378108	34-CA-B	Asbestos	07/27/2022
1378109	34-CA-C	Asbestos	07/27/2022
1378110	35-BM-A	Asbestos	07/27/2022
1378111	35-BM-B	Asbestos	07/27/2022
1378112	35-BM-C	Asbestos	07/27/2022
1378113	36-BM-A	Asbestos	07/27/2022
1378114	36-BM-B	Asbestos	07/27/2022
1378115	36-BM-C	Asbestos	07/27/2022
1378116	37-BM-A	Asbestos	07/27/2022
1378117	37-BM-B	Asbestos	07/27/2022
1378118	37-BM-C	Asbestos	07/27/2022
1378119	38-BM-A	Asbestos	07/27/2022
1378120	38-BM-B	Asbestos	07/27/2022
1378121	38-BM-C	Asbestos	07/27/2022
1378122	39-BM-A	Asbestos	07/27/2022
1378123	39-BM-B	Asbestos	07/27/2022
1378124	39-BM-C	Asbestos	07/27/2022
1378125	40-CC-A	Asbestos	07/27/2022

Lab Sample Number	Client Sample Number	Sample Type	Completed
1378126	40-CC-B	Asbestos	07/27/2022
1378127	40-CC-C	Asbestos	07/27/2022
1378128	41-CC-A	Asbestos	07/27/2022
1378129	41-CC-B	Asbestos	07/27/2022
1378130	41-CC-C	Asbestos	07/27/2022
1378131	42-RI-A	Asbestos	07/27/2022
1378132	42-RI-B	Asbestos	07/27/2022
1378133	42-RI-C	Asbestos	07/27/2022
1378134	43-CB-A	Asbestos	07/27/2022
1378135	43-CB-B	Asbestos	07/27/2022
1378136	43-CB-C	Asbestos	07/27/2022
1378137	44-CM-A	Asbestos	07/27/2022
1378138	44-CM-B	Asbestos	07/27/2022
1378139	44-CM-C	Asbestos	07/27/2022
1378140	45-RT-A	Asbestos	07/27/2022
1378141	45-RT-B	Asbestos	07/27/2022
1378142	45-RT-C	Asbestos	07/27/2022

Reviewed by: 
Emily Nowacki

<u>Summary</u>			
Method	Sample	Layer	Mastic
PLM	142	1	11
Point Count	3		

Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378006 1-RM-A	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378006 1-RM-A	Tar Paper	Black Non-Fibrous Homogenous	PLM 75% Cellulose	PLM 25% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378007 1-RM-B	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378007 1-RM-B	Tar Paper	Black Non-Fibrous Homogenous	PLM 75% Cellulose	PLM 25% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378008 1-RM-C	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378008 1-RM-C	Tar Paper	Black Non-Fibrous Homogenous	PLM 75% Cellulose	PLM 25% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378009 2-RM-A	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378009 2-RM-A	Tar Paper	Black Non-Fibrous Homogenous	PLM 75% Cellulose	PLM 25% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378009 2-RM-A	Shingle	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-3 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378010 2-RM-B	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378010 2-RM-B	Tar Paper	Black Non-Fibrous Homogenous	PLM 75% Cellulose	PLM 25% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378010 2-RM-B	Shingle	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-3 Analyst: Aaron Trail Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378011 2-RM-C	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378011 2-RM-C	Tar Paper	Black Non-Fibrous Homogenous	PLM 75% Cellulose	PLM 25% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378011 2-RM-C	Shingle	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-3 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378012 3-RM-A	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378012 3-RM-A	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378013 3-RM-B	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378013 3-RM-B	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378014 3-RM-C	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378014 3-RM-C	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378015 4-RM-A	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378015 4-RM-A	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378016 4-RM-B	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378016 4-RM-B	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378017 4-RM-C	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378017 4-RM-C	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378018 5-EC-A	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378019 5-EC-B	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378020 5-EC-C	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378021 6-EC-A	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 96% Other	PLM 2% Chrysotile
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378022 6-EC-B		Positive Stop			
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378023 6-EC-C		Positive Stop			
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378024 7-EC-A	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378025 7-EC-B	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378026 7-EC-C	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378027 8-WG-A	Window Glaze	Orange Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378028 8-WG-B	Window Glaze	Orange Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378029 8-WG-C	Window Glaze	Orange Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378030 9-WG-A	Window Glaze	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 96% Other	PLM 2% Chrysotile
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378031 9-WG-B		Positive Stop			
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022 Layer Not Analyzed					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
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1378032 9-WG-C		Positive Stop			
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022 Layer Not Analyzed					

1378033 10-WG-A	Window Glaze	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					

1378034 10-WG-B	Window Glaze	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					

1378035 10-WG-C	Window Glaze	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					

1378036 11-WG-A	Window Glaze	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					

1378037 11-WG-B	Window Glaze	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378038 11-WG-C	Window Glaze	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378039 12-PL-A	Plaster	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378040 12-PL-B	Plaster	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378041 12-PL-C	Plaster	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378042 12-PL-D	Plaster	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378043 12-PL-E	Plaster	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378044 13-PL-A	Plaster	Red Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/26/2022

1378045 13-PL-B	Plaster	Red Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/26/2022

1378046 13-PL-C	Plaster	Red Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/26/2022

1378047 14-TPL-A	Textured Plaster	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/26/2022

1378048 14-TPL-B	Textured Plaster	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/26/2022

1378049 14-TPL-C	Textured Plaster	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/26/2022

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 46555 Humboldt Dr. Suite 100
 Novi, Michigan 48377

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378050 15-TPL-A	Textured Plaster	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378051 15-TPL-B	Textured Plaster	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378052 15-TPL-C	Textured Plaster	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378053 16-FB-A	Fiber Board	Brown Fibrous Homogenous	PLM 75% Cellulose	PLM 25% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378054 16-FB-B	Fiber Board	Brown Fibrous Homogenous	PLM 75% Cellulose	PLM 25% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378055 16-FB-C	Fiber Board	Brown Fibrous Homogenous	PLM 75% Cellulose	PLM 25% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					

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 46555 Humboldt Dr. Suite 100
 Novi, Michigan 48377

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378056 17-WBS-A	Wallboard System	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/26/2022

1378056 17-WBS-A	Mud	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-2 Analyst: Aaron Trail
 Date Analyzed : 07/26/2022

1378057 17-WBS-B	Wallboard System	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/26/2022

1378057 17-WBS-B	Mud	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-2 Analyst: Aaron Trail
 Date Analyzed : 07/26/2022

1378058 17-WBS-C	Wallboard System	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/26/2022

1378058 17-WBS-C	Mud	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-2 Analyst: Aaron Trail
 Date Analyzed : 07/26/2022

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NVLAP LAB CODE 201028-0

Certificate of Analysis

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

Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378059 18-SC-A	Stack Cement	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 96% Other	PLM 2% Chrysotile
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378060 18-SC-B		Positive Stop			
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378061 18-SC-C		Positive Stop			
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378062 19-SC-A	Stack Cement	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 96% Other	PLM 2% Chrysotile
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378063 19-SC-B		Positive Stop			
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378064 19-SC-C		Positive Stop			
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022 Layer Not Analyzed					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378065 20-VD-A	Vibration Dampener	Gray Fibrous Homogenous	PLM 75% Fiberglass	PLM 25% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378066 20-VD-B	Vibration Dampener	Gray Fibrous Homogenous	PLM 75% Fiberglass	PLM 25% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378067 20-VD-C	Vibration Dampener	Gray Fibrous Homogenous	PLM 75% Fiberglass	PLM 25% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378068 21-MB-A	Millboard	Gray Fibrous Homogenous	PLM 5% Cellulose	PLM 55% Other	PLM 40% Chrysotile
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378069 21-MB-B		Positive Stop			
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378070 21-MB-C		Positive Stop			
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022 Layer Not Analyzed					

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Polarized Light Microscopy Asbestos Analysis Report

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 46555 Humboldt Dr. Suite 100
 Novi, Michigan 48377

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378071 22-DW-A	Duct Wrap	Gray Fibrous Homogenous	PLM 10% Cellulose	PLM 60% Other	PLM 30% Chrysotile
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378072 22-DW-B		Positive Stop			
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378073 22-DW-C		Positive Stop			
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378074 23-FT-A	Floor Tile	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378074 23-FT-A	Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/26/2022					

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NVLAP LAB CODE 201028-0

Certificate of Analysis

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

Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378075 23-FT-B	Floor Tile	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378075 23-FT-B	Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378076 23-FT-C	Floor Tile	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378076 23-FT-C	Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378077 24-FS-A	Floor Sheeting	Black Fibrous Homogenous	PLM 30% Cellulose	PLM 70% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					
1378078 24-FS-B	Floor Sheeting	Black Fibrous Homogenous	PLM 30% Cellulose	PLM 70% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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 46555 Humboldt Dr. Suite 100
 Novi, Michigan 48377

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378079 24-FS-C	Floor Sheeting	Black Fibrous Homogenous	PLM 30% Cellulose	PLM 70% Other	PLM None Detected

Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/26/2022

1378080 25-FT-A	Floor Tile	Gray Non-Fibrous Homogenous	PC 1% Cellulose	PC 99% Other	PC Trace Chrysotile
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/27/2022

1378080 25-FT-A	Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-2 Analyst: Aaron Trail
 Date Analyzed : 07/27/2022

1378081 25-FT-B	Floor Tile	Gray Non-Fibrous Homogenous	PC 1.25% Cellulose	PC 98.75% Other	PC Trace Chrysotile
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/27/2022

1378081 25-FT-B	Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-2 Analyst: Aaron Trail
 Date Analyzed : 07/27/2022

Polarized Light Microscopy Asbestos Analysis Report

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 46555 Humboldt Dr. Suite 100
 Novi, Michigan 48377

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378082 25-FT-C	Floor Tile	Gray Non-Fibrous Homogenous	PC 0.75% Cellulose	PC 99.25% Other	PC Trace Chrysotile
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378082 25-FT-C	Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378083 26-MLF-A	Tile	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378083 26-MLF-A	Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 93% Other	PLM 5% Chrysotile
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378083 26-MLF-A	Fibrous Backing	Gray Fibrous Homogenous	PLM 15% Cellulose	PLM 70% Other	PLM 15% Chrysotile
Layer-3 Analyst: Aaron Trail Date Analyzed : 07/27/2022					

Polarized Light Microscopy Asbestos Analysis Report

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 46555 Humboldt Dr. Suite 100
 Novi, Michigan 48377

ETC Job : 249474
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Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378084 26-MLF-B	Tile	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378084 26-MLF-B		Positive Stop			
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/27/2022 Layer Not Analyzed					
1378084 26-MLF-B		Positive Stop			
Layer-3 Analyst: Aaron Trail Date Analyzed : 07/27/2022 Layer Not Analyzed					
1378085 26-MLF-C	Tile	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378085 26-MLF-C		Positive Stop			
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/27/2022 Layer Not Analyzed					
1378085 26-MLF-C		Positive Stop			
Layer-3 Analyst: Aaron Trail Date Analyzed : 07/27/2022 Layer Not Analyzed					

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Polarized Light Microscopy Asbestos Analysis Report

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 Novi, Michigan 48377

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378086 27-FS-A	Floor Sheeting	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/27/2022

1378087 27-FS-B	Floor Sheeting	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/27/2022

1378088 27-FS-C	Floor Sheeting	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/27/2022

1378089 28-CP-A	Ceiling Panel	Yellow Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/27/2022

1378090 28-CP-B	Ceiling Panel	Yellow Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/27/2022

1378091 28-CP-C	Ceiling Panel	Yellow Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/27/2022

Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378092 29-CP-A	Ceiling Panel	Yellow Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378093 29-CP-B	Ceiling Panel	Yellow Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378094 29-CP-C	Ceiling Panel	Yellow Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378095 30-CP-A	Ceiling Panel	Gray Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378096 30-CP-B	Ceiling Panel	Gray Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378097 30-CP-C	Ceiling Panel	Gray Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378098 31-CA-A	Construction Adhesive	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 96% Other	PLM 2% Chrysotile
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378098 31-CA-A	Construction Adhesive	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378099 31-CA-B		Positive Stop			
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022 Layer Not Analyzed					
1378099 31-CA-B	Construction Adhesive	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378100 31-CA-C		Positive Stop			
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022 Layer Not Analyzed					
1378100 31-CA-C	Construction Adhesive	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/27/2022					

Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378101 32-CA-A	Construction Adhesive	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378102 32-CA-B	Construction Adhesive	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378103 32-CA-C	Construction Adhesive	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378104 33-CA-A	Construction Adhesive	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378105 33-CA-B	Construction Adhesive	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378106 33-CA-C	Construction Adhesive	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378107 34-CA-A	Construction Adhesive	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/27/2022

1378108 34-CA-B	Construction Adhesive	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/27/2022

1378109 34-CA-C	Construction Adhesive	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/27/2022

1378110 35-BM-A	Block Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/27/2022

1378111 35-BM-B	Block Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/27/2022

1378112 35-BM-C	Block Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Layer-1 Analyst: Aaron Trail
 Date Analyzed : 07/27/2022

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378113 36-BM-A	Block Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378114 36-BM-B	Block Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378115 36-BM-C	Block Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378116 37-BM-A	Block Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378117 37-BM-B	Block Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378118 37-BM-C	Block Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378119 38-BM-A	Block Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378120 38-BM-B	Block Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 95% Other	PLM 3% Chrysotile
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378121 38-BM-C		Positive Stop			
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022 Layer Not Analyzed					
1378122 39-BM-A	Block Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378123 39-BM-B	Block Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378124 39-BM-C	Block Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					

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NVLAP LAB CODE 201028-0

Certificate of Analysis

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

Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378125 40-CC-A	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378126 40-CC-B	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378127 40-CC-C	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378128 41-CC-A	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378129 41-CC-B	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378130 41-CC-C	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378131 42-RI-A	Rolled in Insulation	Yellow Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378132 42-RI-B	Rolled in Insulation	Yellow Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378133 42-RI-C	Rolled in Insulation	Yellow Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378134 43-CB-A	Cove Base	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378134 43-CB-A	Cove Base Adhesive	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/27/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378135 43-CB-B	Cove Base	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378135 43-CB-B	Cove Base Adhesive	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378136 43-CB-C	Cove Base	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378136 43-CB-C	Cove Base Adhesive	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378137 44-CM-A	Carpet Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378138 44-CM-B	Carpet Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249474
Client Project : N/A
Date Collected : 07/20/2022
Date Received : 07/25/2022

Location :
 1401 N Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378139 44-CM-C	Carpet Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378140 45-RT-A	Roofing Tar	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378141 45-RT-B	Roofing Tar	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					
1378142 45-RT-C	Roofing Tar	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Aaron Trail Date Analyzed : 07/27/2022					



Lab Supervisor/Other Signatory

Analyst:



Aaron Trail

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

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**Bulk Asbestos
 Chain of Custody**

ETL Project #: 249474

Client: ATC Group Services	Contact: Rob Smith Phone: 248-669-5140	Project Location/name: 1401 N BURDICK STREET, KALAMAZOO, MICHIGAN
Address: 46555 Humboldt Dr. Ste. 100 Novi, MI 48377	Fax: 248-669-5147 E-mail: robert.smith@atcgs.com	Client Project #:
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		Date Sampled: 7.20.22

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

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

*Additional charge and turnaround may be required

Lab ID	Sample ID	Material Description	Sample Location	QUANTITY
1378006, 007, 008	1-RM-A,B,C	Roofing materials - roof over east entry door	EA-1	50 SF
009, 010, 011	2-RM-A,B,C	Roofing materials - asphalt shingle roof on pitched truss. (This HA is the roof that was built on top of the flat roofing system that is HA 3-RM-A,B,C)	EA-5	3,600 SF
012, 013, 014	3-RM-A,B,C	Roofing materials - flat cold tar asphalt flat roof (This HA is located under the roofing trusses that provide structure for sample 2-RM-A,B,C)	EA-5	3,450 SF
015, 016, 017	4-RM-A,B,C	Roofing materials - roof over north service door	FS-4	50 SF
018, 019, 020	5-EC-A,B,C	Exterior caulk - bead of white caulk around the perimeter of the door frames	EA-1,4	45 LF
021, 022, 023	6-EC-A,B,C	Exterior caulk - grey, on electrical penetration	EA-2	1 SF
024, 025, 026	7-EC-A,B,C	Exterior caulk - grey, seams between AC units and window void	EA-2,3,4	15 LF
027, 028, 029	8-WG-A,B,C	Window glaze - red, on multi-panel metal windows, located under plywood	EA-1	6 wndows
030, 031, 032	9-WG-A,B,C	Window glaze - white, on basement wood windows, located under plywood	EA-3	2 windows
033, 034, 035	10-WG-A,B,C	Window glaze - 1st floor multi-pane wood windows (some windows are behind CMU block)	EA-2,4	14 windows

	Date	Time
Relinquished (Name/Organization):	Andrew DeLodder / Atlas Technical Consultants	7-22-22 12:00 PM
Received (Name/ETL):	<i>Rosemaria Separella</i>	7-25-22 10:25 am
Sample Log-in (Name/ETL):	<i>Rosemaria Separella</i>	7-25-22 11:30 am
Stereoscopical/Sample Analysis (Name/ETL):	<i>Rosemaria Separella</i>	7-27-22 10:30 am
Results (Name/ETL):	<i>Rosemaria Separella</i>	7-27-22 10:30 am
QA/QC Review (Name/ETL):	<i>Rosemaria Separella</i>	7-27-22 1:30 am

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

Remarks

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

1/3

Bulk Asbestos
 Chain of Custody

ETL Project #: **249474**

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

Lab ID	Sample ID	Material Description	Sample Location	QUANTITY
137, 803, 037	11-WG-A,B,C	Window glaze -	EA-3,4	4 windows
039, 040, 041	12-PL-A,B,C	Plaster - on wallboard	FS-9, 13	800 SF
044, 045, 046	13-PL-A,B,C	Plaster - over stack block	FS-7	50 SF
047, 048, 049	14-TPL-A,B,C	Textured plaster - popcorn	FS-9, 13, 17	750 SF
050, 051, 052	15-TPL-A,B,C	Textured plaster - rough - on ceiling (above drop ceiling)	FS-12	400 SF
053, 054, 055	16-FB-A,B,C	Fiber board - above drop ceiling	FS-11	1950 SF
056, 057, 058	17-WBS-A,B,C	Wallboard system	FS-1,2,3,6,8,10, 11, 12, 13, 14, 15, 16, 17	8,880 SF
059, 060, 061	18-SC-A,B,C	Stack cement - east stack	FS-5	5 SF
062, 063, 064	19-SC-A,B,C	Stack cement - west stack	FS-18	5 SF
065, 066, 067	20-VD-A,B,C	Vibration dampener - grey, on HVAC	FS-7	5 SF
068, 069, 070	21-MB-A,B,C	Millboard, fastened to ceiling above the HVAC equipment	FS-4,7	10 SF
071, 072, 073	22-DW-A,B,C	Duct wrap - on ducts and vents	FS-7, 12, 13, 14, 15, 16	40 SF
074, 075, 076	23-FT-A,B,C	Floor tile - beige 9" tiles, top landing, closet, under carpet	FS-9	60 SF
077, 078, 079	24-FS-A,B,C	Floor sheeting - on stairs to the basement, middle landing, and stairs to the top landing - under carpet	FS-9	60 SF
080, 081, 082	25-FT-A,B,C	Floor tile 9" tile, grey	FS-10	80 SF
083, 084, 085	26-MLF-A,B,C	Multi-layer floor	FS-14	55 SF
086, 087, 088	27-FS-A,B,C	Floor sheeting - faux stone pattern	FS-17	380 SF
089, 090, 091	28-CP-A,B,C	Ceiling panel - fiberglass with vinyl cover - debris	FS-7	30 SF
092, 093, 094	29-CP-A,B,C	Ceiling panel - fiberglass with cloth cover	FS-11, 12, 16, 17	2,785 SF
095, 096, 097	30-CP-A,B,C	Ceiling panel - pinhole and fissure	FS-17	75 SF
098, 099, 100	31-CA-A,B,C	Construction adhesive - grey, on CMU block under AC unit	EA-2	5 SF
101, 102, 103	32-CA-A,B,C	Construction adhesive - beige, under wood trim	FS-12	110 LF
104, 105, 106	33-CA-A,B,C	Construction adhesive - black, under wall panel	FS-15	450 SF
107, 108, 109	34-CA-A,B,C	Construction adhesive - beige, under wall panel	FS-17	840 SF
110, 111, 112	35-BM-A,B,C	Block mortar - exterior siding, CMU block	EA-1,2,3,4	2,880 SF
113, 114, 115	36-BM-A,B,C	Block mortar - window patch, CMU block	EA-2,4	230 SF
116, 117, 118	37-BM-A,B,C	Block mortar - stack	FS-5	150 SF

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ATTACHMENT B
PHOTOGRAPHS

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
1401 N BURDICK STREET
KALAMAZOO, MI 49007



Street view of the former church located at 1401 N Burdick Street (EA-1)



View of the left side of the former church (EA-2)

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
1401 N BURDICK STREET
KALAMAZOO, MI 49007



View of the rear of the former church (EA-3)



View of the right side of the former church (EA-4)

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
1401 N BURDICK STREET
KALAMAZOO, MI 49007



View of the roof (EA-5)



View of FS-1

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
1401 N BURDICK STREET
KALAMAZOO, MI 49007



View of FS-2



View of FS-3

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
1401 N BURDICK STREET
KALAMAZOO, MI 49007



View of FS-4



View of FS-5

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
1401 N BURDICK STREET
KALAMAZOO, MI 49007



View of FS-6



View of FS-7

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
1401 N BURDICK STREET
KALAMAZOO, MI 49007



View of FS-8



View of FS-9

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
1401 N BURDICK STREET
KALAMAZOO, MI 49007



View of FS-10



View of FS-11

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
1401 N BURDICK STREET
KALAMAZOO, MI 49007



View of FS-12



View of FS-13

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
1401 N BURDICK STREET
KALAMAZOO, MI 49007



View of FS-14



View of FS-15

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
1401 N BURDICK STREET
KALAMAZOO, MI 49007



View of FS-16



View of FS-17

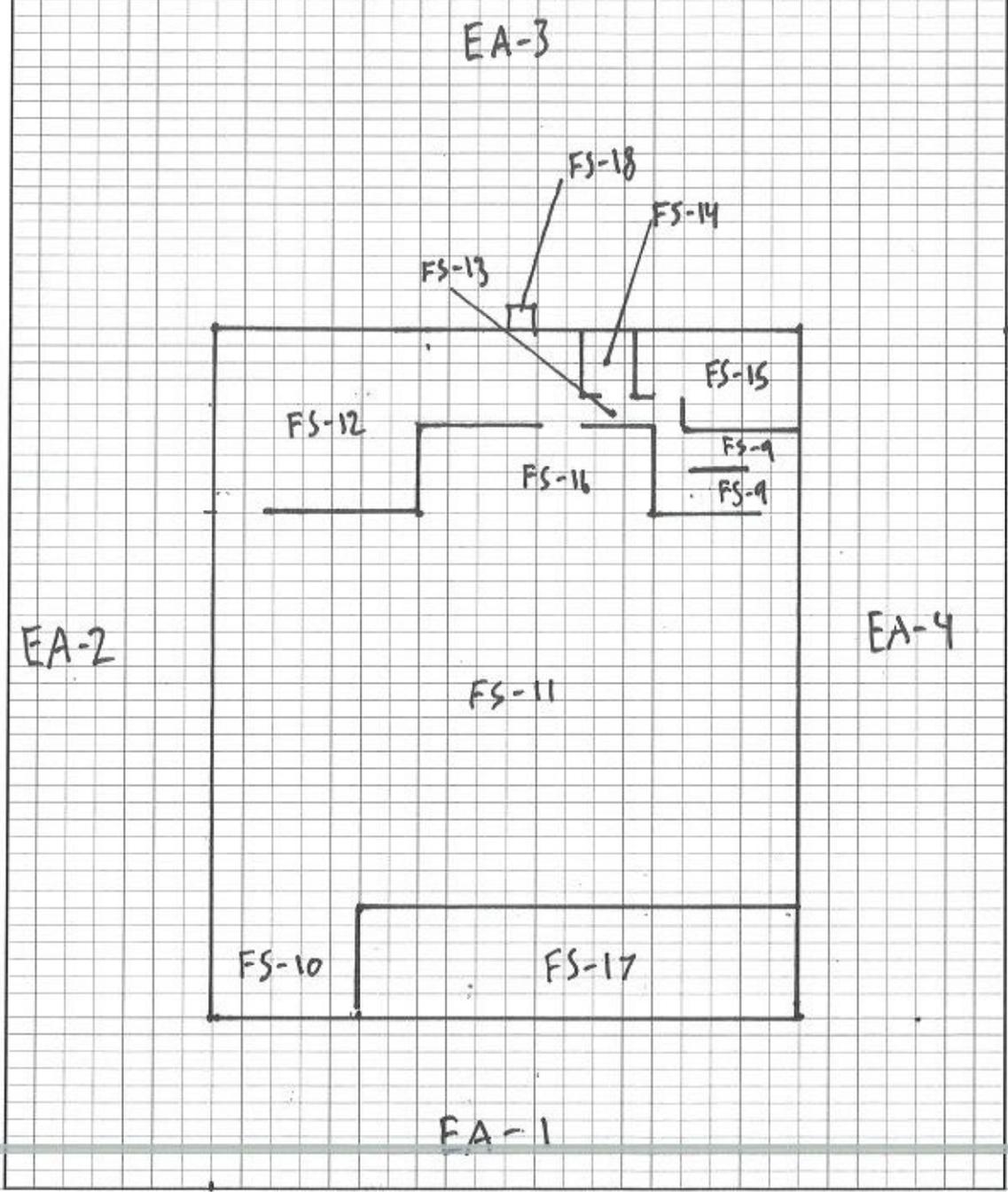
ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
1401 N BURDICK STREET
KALAMAZOO, MI 49007



View of FS-18

ATTACHMENT C
FUNCTIONAL SPACE MAPS

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



Street Address: 1401 No Burdick



1 Square = 2x2'

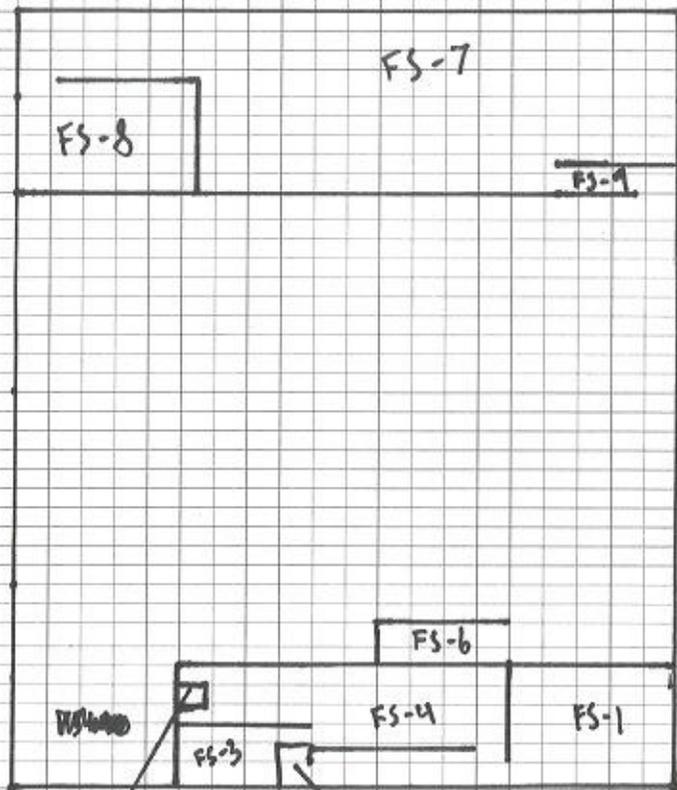
Circle: (Attic) (~~1st Floor~~) (2nd Floor) (Basement) (Garage)



EA-3

EA-2

EA-4



Street Address: 1401 N. Burdick



1 Square = 2x2'



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



Client Name:	City of Kalamazoo
Project Name:	Residential Asbestos Survey
Project Number:	188BS22480
Project Site Address (Subject Property):	1820 N Burdick, Kalamazoo, MI
Parcel Number:	06-22-195-004
Date of Site Visit:	7/22/22
Asbestos Inspection Performed by:	Andrew DeLodder (A48677)
Asbestos Inspector's Signature:	<i>Andrew DeLodder</i>
Areas Not Accessible:	All interior areas of house.
Number of Floors:	1
Asbestos Present (Yes/No/Other):	Yes

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

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

**TABLE I
Asbestos-Containing Materials**

ID#	MATERIAL	LOCATION	QUANTITY	RESULT	NESHAP CATEGORY
9-WG-A,B,C	Window Glaze- White, Detached Garage Windows (Under Plywood)	EA- 7,9	4 WINDOWS	PLM 3% Chrysotile	CAT II

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

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

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

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

**TABLE II
Suspect Asbestos-Containing Materials**

HA/ID#	MATERIAL	LOCATION	RESULT
1-RM-A,B,C	Roofing Material- House	EA-5	ND
2-RM-A,B,C	Roofing Material- Detached Garage	EA-10	ND
3-AS-A,B,C	Asphalt Siding- Under Vinyl Siding	EA-1,2,3,4	ND
4-VP-A,B,C	Vapor Paper- Black, Under Asphalt Siding	EA-1,2,3,4	ND
5-EC-A,B,C	Exterior Caulk- White around Window Frames	EA-1,2,3,4	ND
6-EC-A,B,C	Exterior Caulk- White around Door Frames	EA-1,3	ND

7-EC-A,B,C	Exterior Caulk- White on Electrical Penetration	EA-2	ND
8-WG-A,B,C	Window Glaze- White, House Windows	EA-1,2,3,4	ND
9-WG- A,B,C	Window Glaze- White, Detached Garage Windows (Under Plywood)	EA- 7,9	PLM 3% Chrysotile
10-CA-A,B,C	Construction Adhesive- On Plywood Board over Void in Foundation	EA- 4	ND
11-BM-A,B,C	Brick Mortar- Foundation	EA-1,2,3,4	ND
12-CC-A,B,C	Concrete Chip- Exterior	EA-1	ND
13-CC-A,B,C	Concrete Chip- Detached Garage Floor	EA-2	ND

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

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

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

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

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

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

MATERIAL	LOCATION	APPROXIMATE QUANTITY
Batteries	EA-3	1
Misc. Items	FS-1, EA-3,9	5
Paint Cans	FS-1	2
Unlabeled Containers	FS-1, EA-3,9	3
Tires	FS-1, EA-3,9	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	FS-1
House	FS-2
Exterior Areas	
Garage Roof	EA-10
House Roof	EA-5
Garage Outside Surrounding	EA- 6,7,8,9
House Outside Surrounding	EA- 1,2,3,4

RECOMMENDATIONS:

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

ACM need not be removed before demolition if it:

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

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

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

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

If the asbestos-containing roofing material is not in poor condition and is not friable, it may be

disposed of in a landfill which accepts ordinary demolition waste.

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

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

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

Prior to demolition, the following is recommended:

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

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

LIMITATIONS:

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

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

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

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

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

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

ATTACHMENT A

LABORATORY REPORTS AND CHAIN OF CUSTODY



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

ETL Job: 249471
Client Project: 188BS22480
Report Date: 7/26/2022

Attention: Sarah Gamble
Project Location: 1820 N Burdick, Kalamazoo MI

Lab Sample Number	Client Sample Number	Sample Type	Completed
1378153	1-RM-A	Asbestos	07/26/2022
1378154	1-RM-B	Asbestos	07/26/2022
1378155	1-RM-C	Asbestos	07/26/2022
1378156	2-RM-A	Asbestos	07/26/2022
1378157	2-RM-B	Asbestos	07/26/2022
1378158	2-RM-C	Asbestos	07/26/2022
1378159	3-AS-A	Asbestos	07/26/2022
1378160	3-AS-B	Asbestos	07/26/2022
1378161	3-AS-C	Asbestos	07/26/2022
1378162	4-VP-A	Asbestos	07/26/2022
1378163	4-VP-B	Asbestos	07/26/2022
1378164	4-VP-C	Asbestos	07/26/2022
1378165	5-EC-A	Asbestos	07/26/2022
1378166	5-EC-B	Asbestos	07/26/2022
1378167	5-EC-C	Asbestos	07/26/2022
1378168	6-EC-A	Asbestos	07/26/2022

Lab Sample Number	Client Sample Number	Sample Type	Completed
1378169	6-EC-B	Asbestos	07/26/2022
1378170	6-EC-C	Asbestos	07/26/2022
1378171	7-EC-A	Asbestos	07/26/2022
1378172	7-EC-B	Asbestos	07/26/2022
1378173	7-EC-C	Asbestos	07/26/2022
1378174	8-WG-A	Asbestos	07/26/2022
1378175	8-WG-B	Asbestos	07/26/2022
1378176	8-WG-C	Asbestos	07/26/2022
1378177	9-WG-A	Asbestos	07/26/2022
1378178	9-WG-B	Asbestos	07/26/2022
1378179	9-WG-C	Asbestos	07/26/2022
1378180	10-CA-A	Asbestos	07/26/2022
1378181	10-CA-B	Asbestos	07/26/2022
1378182	10-CA-C	Asbestos	07/26/2022
1378183	11-BM-A	Asbestos	07/26/2022
1378184	11-BM-B	Asbestos	07/26/2022
1378185	11-BM-C	Asbestos	07/26/2022
1378186	12-CC-A	Asbestos	07/26/2022
1378187	12-CC-B	Asbestos	07/26/2022
1378188	12-CC-C	Asbestos	07/26/2022
1378189	13-CC-A	Asbestos	07/26/2022
1378190	13-CC-B	Asbestos	07/26/2022
1378191	13-CC-C	Asbestos	07/26/2022

Reviewed by:



Emily Nowacki

Summary

Method	Sample	Layer	Mastic
PLM	40		

Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249471
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1820 N Burdick, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378153 1-RM-A	Roofing Materials	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378153 1-RM-A	Roofing Materials	Black Fibrous Homogenous	PLM 30% Cellulose	PLM 70% Other	PLM None Detected
Layer-2 Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378154 1-RM-B	Roofing Materials	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378154 1-RM-B	Roofing Materials	Black Fibrous Homogenous	PLM 30% Cellulose	PLM 70% Other	PLM None Detected
Layer-2 Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378155 1-RM-C	Roofing Materials	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378155 1-RM-C	Roofing Materials	Black Fibrous Homogenous	PLM 30% Cellulose	PLM 70% Other	PLM None Detected
Layer-2 Analyst: Dave Cousino Date Analyzed : 07/26/2022					

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested. An estimate of uncertainty can be provided at the client's request.

Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249471
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1820 N Burdick, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378156 2-RM-A	Roofing Materials	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378157 2-RM-B	Roofing Materials	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378158 2-RM-C	Roofing Materials	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378159 3-AS-A	Asphalt Siding	Red Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378160 3-AS-B	Asphalt Siding	Red Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378161 3-AS-C	Asphalt Siding	Red Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249471
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1820 N Burdick, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378162 4-VP-A	Vapor Paper	Black Fibrous Homogenous	PLM 25% Cellulose	PLM 75% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378163 4-VP-B	Vapor Paper	Black Fibrous Homogenous	PLM 25% Cellulose	PLM 75% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378164 4-VP-C	Vapor Paper	Black Fibrous Homogenous	PLM 25% Cellulose	PLM 75% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378165 5-EC-A	Exterior Caulk	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378166 5-EC-B	Exterior Caulk	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378167 5-EC-C	Exterior Caulk	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249471
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1820 N Burdick, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378168 6-EC-A	Exterior Caulk	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378169 6-EC-B	Exterior Caulk	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378170 6-EC-C	Exterior Caulk	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378171 7-EC-A	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378172 7-EC-B	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378173 7-EC-C	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249471
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1820 N Burdick, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378174 8-WG-A	Window Glaze	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378175 8-WG-B	Window Glaze	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378176 8-WG-C	Window Glaze	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378177 9-WG-A	Window Glaze	White Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 94% Other	PLM 3% Chrysotile
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378178 9-WG-B		Positive Stop			
Analyst: Dave Cousino Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378179 9-WG-C		Positive Stop			
Analyst: Dave Cousino Date Analyzed : 07/26/2022 Layer Not Analyzed					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249471
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1820 N Burdick, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378180 10-CA-A	Construction Adhesive	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378181 10-CA-B	Construction Adhesive	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378182 10-CA-C	Construction Adhesive	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378183 11-BM-A	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378184 11-BM-B	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378185 11-BM-C	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249471
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1820 N Burdick, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378186 12-CC-A	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378187 12-CC-B	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378188 12-CC-C	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378189 13-CC-A	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378190 13-CC-B	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					
1378191 13-CC-C	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Dave Cousino Date Analyzed : 07/26/2022					

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NVLAP LAB CODE 201028-0

Certificate of Analysis

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



Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249471
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
1820 N Burdick, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
--------	-------------	------------	-----------	---------------	------------

Ian Moenster

Lab Supervisor/Other Signatory

Analyst:

Dave Cousino

Dave Cousino

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

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**Bulk Asbestos
 Chain of Custody**

ETL Project #: **242471**

Client: ATC Group Services	Contact: Rob Smith Phone: 248-669-5140 Fax: 248-669-5147 E-mail: robert.smith@atcgrs.com	Project Location/name: 1820 N BURDICK, KALAMAZOO, MI
Address: 46555 Humboldt Dr. Ste. 100 Novi, MI 48377		Client Project #: 188BS22480
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		Date Sampled: 7.21.22

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

PLM Instructions
(Check all that apply)

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

* Additional charge and turnaround may be required

Lab ID	Sample ID	Material Description	Sample Location	QUANTITY
137, 153, 154	1-RM-A,B,C	Roofing materials - house	EA-5	650 SF
156, 157, 158	2-RM-A,B,C	Roofing materials - detached garage	EA-10	320 SF
159, 160, 161	3-AS-A,B,C	Asphalt siding - under vinyl siding	EA-1,2,3,4	1200 SF
162, 163, 164	4-VP-A,B,C	Vapor paper - black, under asphalt siding	EA-1,2,3,4	1200 SF
165, 166, 167	5-EC-A,B,C	Exterior caulk - white, around window frames	EA-1,2,3,4	16 windows
168, 169, 170	6-EC-A,B,C	Exterior caulk - white, around door frames	EA-1,3	30 LF
171, 172, 173	7-EC-A,B,C	Exterior caulk - white, on electrical penetration	EA-2	1 SF
174, 175, 176	8-WG-A,B,C	Window glaze - white, house windows	EA-1,2,3,4	16 windows
177, 178, 179	9-WG-A,B,C	Window glaze - white, detached garage windows, (under plywood)	EA-7,9	4 windows
180, 181, 182	10-CA-A,B,C	Construction adhesive - on plywood board over void in foundation	EA-4	20 LF

	Date	Time
Relinquished (Name/Organization): Andrew DeLodder / Atlas Technical Consultants	7.22.22	12:00 PM
Received (Name/ETL): <i>Renee Sepatta</i>	7/25/22	10:15 am
Sample Login (Name/ETL): <i>Renee Sepatta</i>	7-25-22	12:00 am
Stereoscopic/Sample Analysis (Name/ETL): <i>Dawn Cousins</i>	7/26/22	12:00 am
Results (Name/ETL): <i>Dawn Cousins</i>	7-26-22	12:00 am
QA/QC Review (Name/ETL): <i>Renee Sepatta</i>	7-26-22	12:30 am

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

Remarks

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

ATTACHMENT B
PHOTOGRAPHS

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT RESIDENTIAL PROPERTY
1820 N BURDICK STREET
KALAMAZOO, MI 49007



Street view of the house located at 1820 N Burdick Street (EA-1)



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

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT RESIDENTIAL PROPERTY
1820 N BURDICK STREET
KALAMAZOO, MI 49007



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



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

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT RESIDENTIAL PROPERTY
1820 N BURDICK STREET
KALAMAZOO, MI 49007



View of EA-5



View of EA-6

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT RESIDENTIAL PROPERTY
1820 N BURDICK STREET
KALAMAZOO, MI 49007



View of EA-7



View of EA-8

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT RESIDENTIAL PROPERTY
1820 N BURDICK STREET
KALAMAZOO, MI 49007



View of EA-9



View of EA-10

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT RESIDENTIAL PROPERTY
1820 N BURDICK STREET
KALAMAZOO, MI 49007



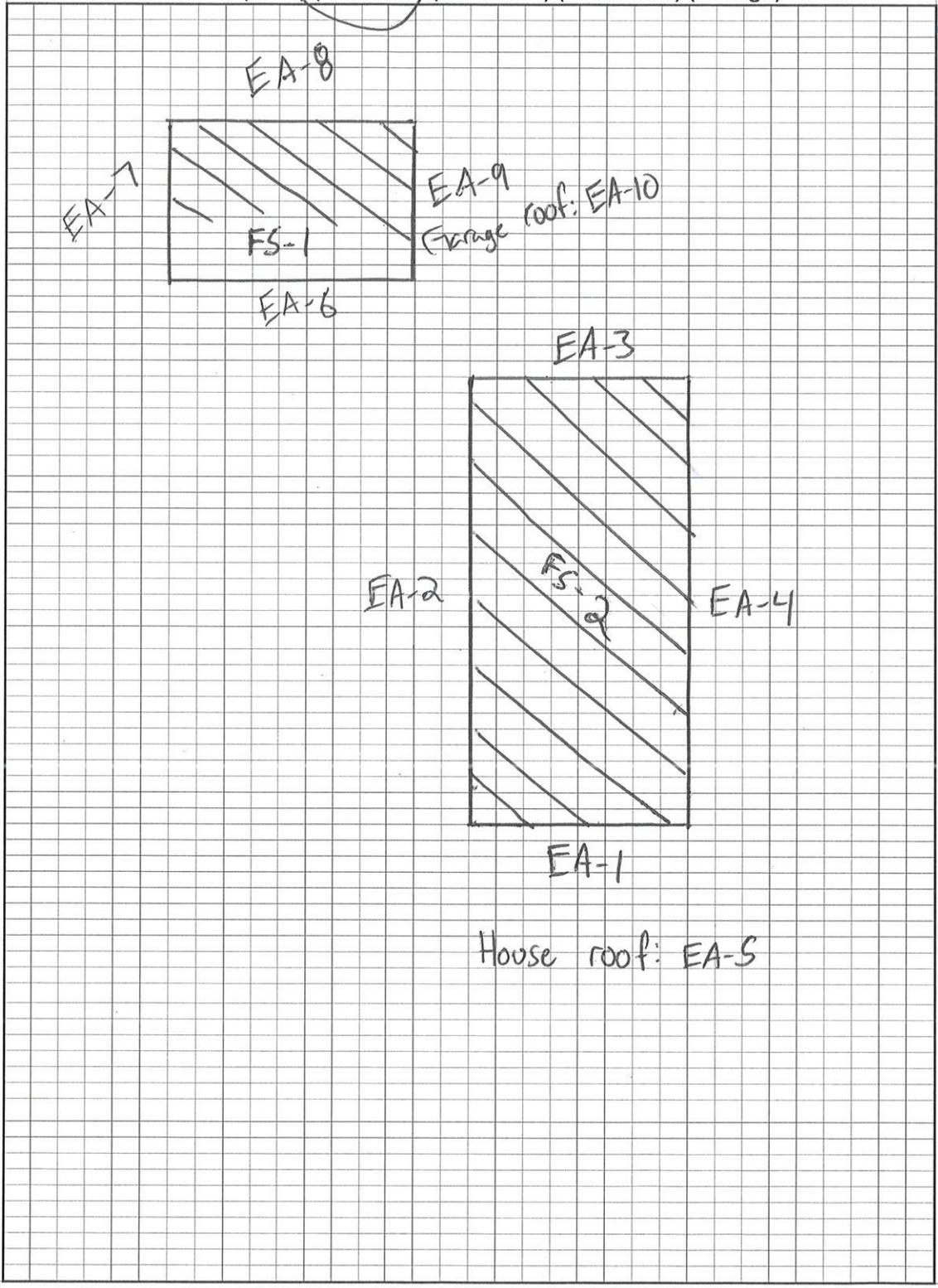
View of FS-1



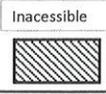
View of hole in foundation

ATTACHMENT C
FUNCTIONAL SPACE MAPS

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



Street Address: 1820 N Burdick St





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



Client Name:	City of Kalamazoo
Project Name:	Residential Asbestos Survey
Project Number:	188BS22480
Project Site Address (Subject Property):	1852 S Burdick, Kalamazoo, MI
Parcel Number:	06-22-195-004
Date of Site Visit:	7/22/22
Asbestos Inspection Performed by:	Andrew DeLodder (A48677)
Asbestos Inspector's Signature:	<i>Andrew DeLodder</i>
Areas Not Accessible:	All Areas Accessible
Number of Floors:	1
Asbestos Present (Yes/No/Other):	Yes

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

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

TABLE I
Asbestos-Containing Materials

ID#	MATERIAL	LOCATION	QUANTIT Y	RESULT	NESHAP CATEGORY
1-RM-A,B,C (Layer 2 Only)	Roofing Material- Round Roof	EA-5	1690 SF	PLM 6% Chrysotile	CAT I
2-RM-A,B,C (Layer 4 Only)	Roofing Material- Flat Roof	EA-5	1890 SF	PLM 3% Chrysotile	CAT I
7-EC-A,B,C	Exterior Caulk- Beige, Between Brick and Wood Trim, on Window Frames and Door Frames	EA-1,2,3	80 LF	PLM 3% Chrysotile	CAT II
8-EC-A,B,C	Exterior Caulk- White, Around Vinyl Window Frames	EA-3	190 LF	PLM 3% Chrysotile	CAT II
10-TPL-A,B,C (Layer 3 Only)	Textured Plaster- Deco Pattern	FS- 3, 10	350 SF	PLM 10% Chrysotile	RACM
16-PI-A,B,C	Pipe Insulation-Woolfelt	FS- 6, 7, 9	30 LF	PLM 30% Chrysotile	RACM
18-FT-A,B,C (Floor Tile Only)	Floor Tile- Dark Red 9" Tile	FS- 9	25 SF	PLM 3% Chrysotile	CAT I

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

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

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

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

TABLE II
Suspect Asbestos-Containing Materials

HA/ID#	MATERIAL	LOCATION	RESULT
1-RM-A,B,C	Roofing Material- Round Roof	EA-5	PLM 6% Chrysotile
2-RM-A,B,C	Roofing Material- Flat Roof	EA-5	PLM 3% Chrysotile
3-EC-A,B,C	Exterior Caulk- On Perimeter on Air vent	EA-1	ND
4-EC-A,B,C	Exterior Caulk- Beige, On Boarded Up Windows	EA-1	ND
5-EC-A,B,C	Exterior Caulk- White, on Top of Garage Bay Doors, Window Frames and Service Door Frames	EA-1,2,3	ND
6-EC-A,B,C	Exterior Caulk- White, Around Glass Perimeter on Window of the Entry Way	EA-1	ND
7-EC-A,B,C	Exterior Caulk- Beige, Between Brick and Wood Trim, on Window Frames and Door Frames	EA-1,2,3	PLM 3% Chrysotile
8-EC-A,B,C	Exterior Caulk- White, Around Vinyl Window Frames	EA-3	PLM 3% Chrysotile
9-PL- A,B,C	Plaster on Wallboard	FS- 2	ND
10-TPL-A,B,C	Textured Plaster- Deco Pattern	FS- 3, 10	PLM 10% Chrysotile
11-WBS-A,B,C	Wallboard System	FS- 1,8,9,10	ND
12-FBR-A,B,C	Fiber Board- Smooth Texture, on Walls	FS- 5	ND
13-FBR-A,B,C	Fiber Board- Gridline Texture, on Walls	FS- 6,7	ND
14-SC-A,B,C	Stack Cement	FS- 7, 11	ND
15-HS-A,B,C	Heat Shield- Within Electrical Box on Southwest Exterior Wall	FS- 6	ND
16-PI-A,B,C	Pipe Insulation-Woolfelt	FS- 6, 7, 9	PLM 30% Chrysotile
17-FS-A,B,C	Floor Sheeting- Rolled Up in Debris Pile	FS- 5	ND
18-FT-A,B,C	Floor Tile- Dark Red 9" Tile	FS- 9	PLM 3% Chrysotile

19-CA-A,B,C	Construction Adhesive- Under Paneling Near Sink	FS- 4	ND
20-FB-A,B,C	Fire Brick- Debris	FS-7	ND
21-BM-A,B,C	Brick Mortar- Exterior Siding	EA-1	ND
22-BM-A,B,C	Brick Mortar- Concrete Block Walls (Chipped Block Pattern)	EA- 2,3,4 FS- 1,6,7	ND
23-BM-A,B,C	Brick Mortar- Concrete Block Walls (Smooth Block Pattern)	EA- 3	ND
24-BM-A,B,C	Brick Mortar- Interior CMU	FS- 1,2,4,8,9,10	ND
25-BM-A,B,C	Brick Mortar- Stack	FS- 11	ND
26-CC-A,B,C	Concrete Chip- Exterior	EA- 1,2	ND
27-CC-A,B,C	Concrete Chip- Poured Concrete Pad Floor	FS- 1,2,3,4,5,6,7,8,9,10	ND
28-RI-A,B,C	Rolled-In-Insulation, Yellow with Brown and Silver Paper Backing	FS- 1	ND
29-RI-A,B,C	Rolled-In-Insulation, Red; No backing	FS- 1	ND
30-RI-A,B,C	Rolled-In-Insulation, Red with Brown Backing	FS- 4,5,6,7,8,9,10	ND
HA #31	Vermiculite	3CY	ASSUMED
32-VD-A,B,C	Vibration Dampener- Gray, on HVAC	FS- 7	ND
33-TC-A,B,C	Terracotta Capstone	EA- 5	ND
34-DC-A,B,C	Duct Tape- on HVAC	FS- 7,8,9,10	ND

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

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

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

Contractors working in an area where asbestos is present must be informed of the type and location of ACMs. Abatement of ACMs, including non-friable ACMs, must be performed by a Michigan licensed, certified and registered asbestos abatement contractor in accordance with state and federal Occupational Safety and Health Administration (OSHA) and local air quality management regulations. Table III below lists Other Regulated Materials/Universal Wastes identified during the survey.

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

MATERIAL	LOCATION	APPROXIMATE QUANTITY
Underground Storage Tanks	FS-4	2
CFC's Air Conditioners/ Refrigerators/ Freezers/ Dehumidifiers	FS-4	1
Batteries	FS-4, FS-5	2
CRTs/ TV Screens/ Monitors/ Electronics	FS-5	3
Fire Extinguishers	FS-4	7
Fluorescent/ HID Light Fixtures/ Bulbs/ Ballasts	FS-4, FS-5, FS-7, FS-10	20
Misc. Items	FS-4, FS-5	5
Paint Cans	FS-4, FS-5	5
Smoke Detectors	FS-5	1
Natural Gas Regulator	EA-3	1
Unlabeled Containers	FS-5	3
Tires	FS-5	1
Interior Debris Piles and/or Evidence of Dumping	FS-3,4,5,7,10	8

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

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

DESCRIPTION	DESIGNATION
Interior Functional Spaces	
First Floor	FS- 1,2,3,4,5,6,7,8,9,10,11
Exterior Areas	
Outside Surrounding	EA- 1,2,3,4

RECOMMENDATIONS:

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

ACM need not be removed before demolition if it:

(i) Is a Category I non-friable ACM that is not friable.

(ii) Is on a facility component that is encased in concrete or other similarly hard material and is adequately wet whenever exposed during demolition.

(iii) Was not accessible for testing and therefore was not discovered until after demolition began and, as a result of the demolition, cannot be safely removed. If not removed for safety reasons, the exposed RACM and any asbestos-contaminated debris must be treated as asbestos-containing waste material and kept adequately wet at all times until disposed of.

(iv) Is a Category II non-friable ACM and the probability is low that the material will become crumbled, pulverized, or reduced to powder during demolition.

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

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

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

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

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

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

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

Prior to demolition, the following is recommended:

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

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

LIMITATIONS:

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

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

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

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

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

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

ATTACHMENT A

LABORATORY REPORTS AND CHAIN OF CUSTODY



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

ETL Job: 249473
Client Project: 188BS22480
Report Date: 7/27/2022

Attention: Robert Smith
Project Location: 1852 S Burdick Street, Kalamazoo MI

Lab Sample Number	Client Sample Number	Sample Type	Completed
1378192	1-RM-A	Asbestos	07/26/2022
1378193	1-RM-B	Asbestos	07/26/2022
1378194	1-RM-C	Asbestos	07/26/2022
1378195	2-RM-A	Asbestos	07/26/2022
1378196	2-RM-B	Asbestos	07/26/2022
1378197	2-RM-C	Asbestos	07/26/2022
1378198	3-EC-A	Asbestos	07/26/2022
1378199	3-EC-B	Asbestos	07/26/2022
1378200	3-EC-C	Asbestos	07/26/2022
1378201	4-EC-A	Asbestos	07/26/2022
1378202	4-EC-B	Asbestos	07/26/2022
1378203	4-EC-C	Asbestos	07/26/2022
1378204	5-EC-A	Asbestos	07/26/2022
1378205	5-EC-B	Asbestos	07/26/2022
1378206	5-EC-C	Asbestos	07/26/2022
1378207	6-EC-A	Asbestos	07/26/2022

Lab Sample Number	Client Sample Number	Sample Type	Completed
1378208	6-EC-B	Asbestos	07/26/2022
1378209	6-EC-C	Asbestos	07/26/2022
1378210	7-EC-A	Asbestos	07/26/2022
1378211	7-EC-B	Asbestos	07/26/2022
1378212	7-EC-C	Asbestos	07/26/2022
1378213	8-EC-A	Asbestos	07/26/2022
1378214	8-EC-B	Asbestos	07/26/2022
1378215	8-EC-C	Asbestos	07/26/2022
1378216	9-PL-A	Asbestos	07/26/2022
1378217	9-PL-B	Asbestos	07/26/2022
1378218	9-PL-C	Asbestos	07/26/2022
1378219	10-TPL-A	Asbestos	07/26/2022
1378220	10-TPL-B	Asbestos	07/26/2022
1378221	10-TPL-C	Asbestos	07/26/2022
1378222	11-WBS-A	Asbestos	07/26/2022
1378223	11-WBS-B	Asbestos	07/26/2022
1378224	11-WBS-C	Asbestos	07/26/2022
1378225	12-FBR-A	Asbestos	07/26/2022
1378226	12-FBR-B	Asbestos	07/26/2022
1378227	12-FBR-C	Asbestos	07/26/2022
1378228	13-FBR-A	Asbestos	07/26/2022
1378229	13-FBR-B	Asbestos	07/26/2022
1378230	13-FBR-C	Asbestos	07/26/2022
1378231	14-SC-A	Asbestos	07/26/2022
1378232	14-SC-B	Asbestos	07/26/2022
1378233	14-SC-C	Asbestos	07/26/2022

Lab Sample Number	Client Sample Number	Sample Type	Completed
1378234	15-HS-A	Asbestos	07/26/2022
1378235	15-HS-B	Asbestos	07/26/2022
1378236	15-HS-C	Asbestos	07/26/2022
1378237	16-PI-A	Asbestos	07/26/2022
1378238	16-PI-B	Asbestos	07/26/2022
1378239	16-PI-C	Asbestos	07/26/2022
1378240	17-FS-A	Asbestos	07/26/2022
1378241	17-FS-B	Asbestos	07/26/2022
1378242	17-FS-C	Asbestos	07/26/2022
1378243	18-FT-A	Asbestos	07/26/2022
1378244	18-FT-B	Asbestos	07/26/2022
1378245	18-FT-C	Asbestos	07/26/2022
1378246	19-CA-A	Asbestos	07/26/2022
1378247	19-CA-B	Asbestos	07/26/2022
1378248	19-CA-C	Asbestos	07/26/2022
1378249	20-FB-A	Asbestos	07/26/2022
1378250	20-FB-B	Asbestos	07/26/2022
1378251	20-FB-C	Asbestos	07/26/2022
1378252	21-BM-A	Asbestos	07/26/2022
1378253	21-BM-B	Asbestos	07/26/2022
1378254	21-BM-C	Asbestos	07/26/2022
1378255	22-BM-A	Asbestos	07/26/2022
1378256	22-BM-B	Asbestos	07/26/2022
1378257	22-BM-C	Asbestos	07/26/2022
1378258	23-BM-A	Asbestos	07/26/2022
1378259	23-BM-B	Asbestos	07/26/2022

Lab Sample Number	Client Sample Number	Sample Type	Completed
1378260	23-BM-C	Asbestos	07/26/2022
1378261	24-BM-A	Asbestos	07/26/2022
1378262	24-BM-B	Asbestos	07/26/2022
1378263	24-BM-C	Asbestos	07/26/2022
1378264	25-BM-A	Asbestos	07/26/2022
1378265	25-BM-B	Asbestos	07/26/2022
1378266	25-BM-C	Asbestos	07/26/2022
1378267	26-CC-A	Asbestos	07/26/2022
1378268	26-CC-B	Asbestos	07/26/2022
1378269	26-CC-C	Asbestos	07/26/2022
1378270	27-CC-A	Asbestos	07/26/2022
1378271	27-CC-B	Asbestos	07/26/2022
1378272	27-CC-C	Asbestos	07/26/2022
1378273	28-RI-A	Asbestos	07/26/2022
1378274	28-RI-B	Asbestos	07/26/2022
1378275	28-RI-C	Asbestos	07/26/2022
1378276	29-RI-A	Asbestos	07/26/2022
1378277	29-RI-B	Asbestos	07/26/2022
1378278	29-RI-C	Asbestos	07/26/2022
1378279	30-RI-A	Asbestos	07/26/2022
1378280	30-RI-B	Asbestos	07/26/2022
1378281	30-RI-C	Asbestos	07/26/2022
1378285	32-VD-A	Asbestos	07/26/2022
1378286	32-VD-B	Asbestos	07/26/2022
1378287	32-VD-C	Asbestos	07/26/2022
1378288	33-TC-A	Asbestos	07/26/2022

Lab Sample Number	Client Sample Number	Sample Type	Completed
1378289	33-TC-B	Asbestos	07/26/2022
1378290	33-TC-C	Asbestos	07/26/2022
1378291	34-DC-A	Asbestos	07/26/2022
1378292	34-DC-B	Asbestos	07/26/2022
1378293	34-DC-C	Asbestos	07/26/2022

Reviewed by: 
Emily Nowacki

<u>Summary</u>			
Method	Sample	Layer	Mastic
PLM	116	11	1

Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249473
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1852 S Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378192 1-RM-A	Roof Material	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378192 1-RM-A	Roof Material	Black Non-Fibrous Homogenous	PLM 10% Cellulose	PLM 84% Other	PLM 6% Chrysotile
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378192 1-RM-A	Roof Material	Black Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-3 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378192 1-RM-A	Roof Material	Black Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-4 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378192 1-RM-A	Roof Material	Black Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-5 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

Polarized Light Microscopy Asbestos Analysis Report

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 46555 Humboldt Dr. Suite 100
 Novi, Michigan 48377

ETC Job : 249473
Client Project : 188BS22480
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Date Received : 07/25/2022

Location :
 1852 S Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378193 1-RM-B	Roof Material	Black Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378193 1-RM-B		Positive Stop			
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378193 1-RM-B	Roof Material	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-3 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378193 1-RM-B	Roof Material	Black Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-4 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378193 1-RM-B	Roof Material	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-5 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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Location :
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378194 1-RM-C	Roof Material	Black Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378194 1-RM-C		Positive Stop			
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378194 1-RM-C	Roof Material	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-3 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378194 1-RM-C	Roof Material	Black Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-4 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378194 1-RM-C	Roof Material	Black Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-5 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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Location :
 1852 S Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378195 2-RM-A	Roof Material	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378195 2-RM-A	Roof Material	Black Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378195 2-RM-A	Roof Material	Black Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-3 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378195 2-RM-A	Roof Material	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 94% Other	PLM 3% Chrysotile
Layer-4 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378195 2-RM-A	Roof Material	Black Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-5 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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Location :
 1852 S Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378196 2-RM-B	Roof Material	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378196 2-RM-B	Roof Material	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378196 2-RM-B	Roof Material	Black Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-3 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378196 2-RM-B		Positive Stop			
Layer-4 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378196 2-RM-B	Roof Material	Black Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-5 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

Polarized Light Microscopy Asbestos Analysis Report

To : Atlas - Novi
 46555 Humboldt Dr. Suite 100
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ETC Job : 249473
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Location :
 1852 S Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378197 2-RM-C	Roof Material	Black Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378197 2-RM-C	Roof Material	Black Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378197 2-RM-C	Roof Material	Black Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-3 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378197 2-RM-C		Positive Stop			
Layer-4 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378197 2-RM-C	Roof Material	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-5 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378198 3-EC-A	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249473
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1852 S Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378199 3-EC-B	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378200 3-EC-C	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378201 4-EC-A	Exterior Caulk	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378202 4-EC-B	Exterior Caulk	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378203 4-EC-C	Exterior Caulk	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378204 5-EC-A	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested. An estimate of uncertainty can be provided at the client's request.

Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249473
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1852 S Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378205 5-EC-B	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378206 5-EC-C	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378207 6-EC-A	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378208 6-EC-B	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378209 6-EC-C	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378210 7-EC-A	Exterior Caulk	Beige Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 96% Other	PLM 3% Chrysotile
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249473
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1852 S Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378211 7-EC-B		Positive Stop			
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378212 7-EC-C		Positive Stop			
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378213 8-EC-A	Exterior Caulk	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 96% Other	PLM 3% Chrysotile
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378214 8-EC-B		Positive Stop			
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378215 8-EC-C		Positive Stop			
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378216 9-PL-A	Plaster	Grey Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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 46555 Humboldt Dr. Suite 100
 Novi, Michigan 48377

ETC Job : 249473
Client Project : 188BS22480
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Location :
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378217 9-PL-B	Plaster	Grey Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378217 9-PL-B	Skim Coat	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378218 9-PL-C	Plaster	Grey Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378218 9-PL-C	Skim Coat	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					



NVLAP LAB CODE 201028-0

Certificate of Analysis

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

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378219 10-TPL-A	Textured Plaster	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378219 10-TPL-A	Skim Coat	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378219 10-TPL-A	Textured Plaster	Green Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 88% Other	PLM 10% Chrysotile
Layer-3 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378219 10-TPL-A	Plaster	Grey Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-4 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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Location :
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378220 10-TPL-B	Textured Plaster	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378220 10-TPL-B	Skim Coat	Tan Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378220 10-TPL-B		Positive Stop			
Layer-3 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378220 10-TPL-B	Plaster	Grey Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-4 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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Location :
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378221 10-TPL-C	Textured Plaster	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378221 10-TPL-C	Skim Coat	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378221 10-TPL-C		Positive Stop			
Layer-3 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378221 10-TPL-C	Plaster	Grey Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-4 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378222 11-WBS-A	Wallboard	White Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378223 11-WBS-B	Wallboard	White Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378224 11-WBS-C	Wallboard	White Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378225 12-FBR-A	Fiberboard	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378226 12-FBR-B	Fiberboard	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378227 12-FBR-C	Fiberboard	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378228 13-FBR-A	Fiberboard	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378229 13-FBR-B	Fiberboard	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378230 13-FBR-C	Fiberboard	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378231 14-SC-A	Stack Cement	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378232 14-SC-B	Stack Cement	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378233 14-SC-C	Stack Cement	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378234 15-HS-A	Heat Shield	Brown Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378235 15-HS-B	Heat Shield	Brown Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378236 15-HS-C	Heat Shield	Brown Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378237 16-PI-A	Pipe Insulation	Grey Fibrous Homogenous	PLM 40% Cellulose	PLM 30% Other	PLM 30% Chrysotile
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378238 16-PI-B		Positive Stop			
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378239 16-PI-C		Positive Stop			
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378240 17-FS-A	Floor Sheeting	Brown Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378241 17-FS-B	Floor Sheeting	Brown Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378242 17-FS-C	Floor Sheeting	Brown Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378243 18-FT-A	Floor Tile	Red Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 96% Other	PLM 3% Chrysotile
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378243 18-FT-A	Mastic	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378244 18-FT-B		Positive Stop			
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378244 18-FT-B	Mastic	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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Location :
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378245 18-FT-C		Positive Stop			
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022 Layer Not Analyzed					
1378245 18-FT-C	Mastic	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378246 19-CA-A	Construction Adhesive	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378247 19-CA-B	Construction Adhesive	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378248 19-CA-C	Construction Adhesive	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378249 20-FB-A	Fire Brick	Orange Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378250 20-FB-B	Fire Brick	Orange Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378251 20-FB-C	Fire Brick	Orange Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378252 21-BM-A	Brick Mortar	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378253 21-BM-B	Brick Mortar	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378254 21-BM-C	Brick Mortar	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378255 22-BM-A	Brick Mortar	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378256 22-BM-B	Brick Mortar	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378257 22-BM-C	Brick Mortar	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378258 23-BM-A	Brick Mortar	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378259 23-BM-B	Brick Mortar	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378260 23-BM-C	Brick Mortar	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378261 24-BM-A	Brick Mortar	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1852 S Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378262 24-BM-B	Brick Mortar	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378263 24-BM-C	Brick Mortar	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378264 25-BM-A	Brick Mortar	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378265 25-BM-B	Brick Mortar	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378266 25-BM-C	Brick Mortar	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378267 26-CC-A	Concrete Chip	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249473
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1852 S Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378268 26-CC-B	Concrete Chip	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378269 26-CC-C	Concrete Chip	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378270 27-CC-A	Concrete Chip	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378271 27-CC-B	Concrete Chip	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
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Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

1378272 27-CC-C	Concrete Chip	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
--------------------	---------------	-----------------------------------	------------------	---------------	-------------------

Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249473
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1852 S Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378273 28-RI-A	Rolled in Insulation	Yellow Fibrous Homogenous	PLM 98% Fiberglass	PLM 2% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378273 28-RI-A	Paper	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378274 28-RI-B	Rolled in Insulation	Yellow Fibrous Homogenous	PLM 98% Fiberglass	PLM 2% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378274 28-RI-B	Paper	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378275 28-RI-C	Rolled in Insulation	Yellow Fibrous Homogenous	PLM 98% Fiberglass	PLM 2% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378275 28-RI-C	Paper	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249473
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1852 S Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378276 29-RI-A	Rolled in Insulation	Pink Fibrous Homogenous	PLM 98% Fiberglass	PLM 2% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378277 29-RI-B	Rolled in Insulation	Pink Fibrous Homogenous	PLM 98% Fiberglass	PLM 2% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378278 29-RI-C	Rolled in Insulation	Pink Fibrous Homogenous	PLM 98% Fiberglass	PLM 2% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378279 30-RI-A	Rolled in Insulation	Pink Fibrous Homogenous	PLM 98% Fiberglass	PLM 2% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378279 30-RI-A	Paper	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249473
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1852 S Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378280 30-RI-B	Rolled in Insulation	Pink Fibrous Homogenous	PLM 98% Fiberglass	PLM 2% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378280 30-RI-B	Paper	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378281 30-RI-C	Rolled in Insulation	Pink Fibrous Homogenous	PLM 98% Fiberglass	PLM 2% Other	PLM None Detected
Layer-1 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378281 30-RI-C	Paper	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Layer-2 Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378285 32-VD-A	Vibration Dampener	Grey Fibrous Homogenous	PLM 80% Fiberglass	PLM 20% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378286 32-VD-B	Vibration Dampener	Grey Fibrous Homogenous	PLM 80% Fiberglass	PLM 20% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249473
Client Project : 188BS22480
Date Collected : 07/21/2022
Date Received : 07/25/2022

Location :
 1852 S Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378287 32-VD-C		Positive Stop			
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022 Sample Not Analyzed					
1378288 33-TC-A	Terracotta Capstone	Brown Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378289 33-TC-B	Terracotta Capstone	Brown Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378290 33-TC-C	Terracotta Capstone	Brown Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378291 34-DC-A	Duct Tape	Brown Fibrous Homogenous	PLM 80% Cellulose	PLM 20% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					
1378292 34-DC-B	Duct Tape	Brown Fibrous Homogenous	PLM 80% Cellulose	PLM 20% Other	PLM None Detected
Analyst: Eleni Kiliaris Date Analyzed : 07/26/2022					

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Polarized Light Microscopy Asbestos Analysis Report

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

ETC Job : 249473
 Client Project : 188BS22480
 Date Collected : 07/21/2022
 Date Received : 07/25/2022

Location :
 1852 S Burdick Street, Kalamazoo MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1378293 34-DC-C	Duct Tape	Brown Fibrous Homogenous	PLM 80% Cellulose	PLM 20% Other	PLM None Detected

Analyst: Eleni Kiliaris
 Date Analyzed : 07/26/2022

Ian Moensken

Lab Supervisor/Other Signatory

Analyst:

Eleni Kiliaris

Eleni Kiliaris

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

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**Bulk Asbestos
 Chain of Custody**

ETL Project #: **249473**

Client: ATC Group Services	Contact: Rob Smith Phone: 248-669-5140	Project Location/name: 1852 S BURDICK STREET, KALAMAZOO, MI
Address: 46555 Humboldt Dr. Ste. 100 Novi, MI 48377	Fax: 248-669-5147 E-mail: robert.smith@atcgas.com	Client Project #: 188B522480
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		Date Sampled: 7.21.22

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

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

* Additional charge and turnaround may be required

Lab ID	Sample ID	Material Description	Sample Location	QUANTITY
1378, 192, 193	1-RM-A,B,C 194	Roofing materials - round roof	EA-5	1,690 SF
195, 196, 197	2-RM-A,B,C	Roofing materials - flat roof	EA-5	1,890 SF
198, 199, 200	3-EC-A,B,C	Exterior caulk - on perimeter of air vent	EA-1	5 LF
201, 202, 203	4-EC-A,B,C	Exterior caulk - beige, on boarded up windows	EA-1	10 SF
204, 205, 206	5-EC-A,B,C	Exterior caulk - white, on top of garage bay doors, window frames, service door frames	EA-1,2,3	120 LF
207, 208, 209	6-EC-A,B,C	Exterior caulk - white, around glass perimeter on window of the entry way	EA-1	15 LF
210, 211, 212	7-EC-A,B,C	Exterior caulk - beige, between brick and wood trim, window frames, door frames	EA-1,2,3	80 LF
213, 214, 215	8-EC-A,B,C	Exterior caulk - white, around vinyl window frames	EA-3	190 LF
216, 217, 218	9-PL-A,B,C	Plaster - on wallboard	FS-2	180 SF
219, 220, 221	10-TPL-A,B,C	Textured plaster - deco pattern	FS-3, 10	350 SF

	Date	Time
Relinquished (Name/Organization): Andrew DeLoddy Atlas Technical Consultants	7.22.22	12:00 PM
Received (Name/ETL): <i>Robert Smith</i>	7-25-22	10:15 am/pm
Sample Login (Name/ETL): <i>Renee Sepveda</i>	7-25-22	12:03 am/pm
Stereoscopical/Sample Analysis (Name/ETL): <i>Elisabet</i>	7/26/22	4:00 am/pm
Results (Name/ETL): <i>Elisabet</i>	7/26/22	4:00 am/pm
QA/QC Review (Name/ETL): <i>XPR</i>	7-27-22	0935 am/pm

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

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

112

Bulk Asbestos
 Chain of Custody

ETL Project #: 209473

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

Lab ID	Sample ID	Material Description	Sample Location	QUANTITY
1378, 222, 228	11-WBS-A,B,C 224	Wallboard system	FS-1,8,9,10	360 SF
225, 226, 227	12-FBR-A,B,C	Fiber board - smooth texture, on walls	FS-5	550 SF
228, 229, 230	13-FBR-A,B,C	Fiber board - gridline texture, on walls	FS-6,7	780 SF
231, 232, 233	14-SC-A,B,C	Stack cement - stack is located in FS-7	FS-11	150 SF
234, 235, 236	15-HS-A,B,C	Heat shield - within electrical box on southwest exterior wall	FS-6	1 SF
237, 238, 239	16-PI-A,B,C	Pipe insulation - woolfelt	FS-6,7,9	30 LF
240, 241, 242	17-FS-A,B,C	Floor sheeting - rolled up in debris pile	FS-5	3 rolls
243, 244, 245	18-FT-A,B,C	Floor tile - dark red 9" tile	FS-9	25 SF
246, 247, 248	19-CA-A,B,C	Construction adhesive - under panelling near sink	FS-4	20 SF
249, 250, 251	20-FB-A,B,C	Fire brick - debris in FS-7	FS-7	10 SF
252, 253, 254	21-BM-A,B,C	Brick mortar - exterior siding	EA-1	975 SF
255, 256, 257	22-BM-A,B,C	Brick mortar - concrete block walls (chipped block pattern)	EA-2,3,4, FS-1,6,7	1,300 SF
258, 259, 260	23-BM-A,B,C	Brick mortar - concrete block walls (smooth block pattern)	EA-3	2,700 SF
261, 262, 263	24-BM-A,B,C	Brick mortar - interior CMU	FS1,2,4,8,9,10	360 SF
264, 265, 266	25-BM-A,B,C	Brick mortar - stack	FS-11	150 SF
267, 268, 269	26-CC-A,B,C	Concrete chip - exterior	EA-1,2	600 SF
270, 271, 272	27-CC-A,B,C	Concrete chip - poured concrete pad floor	FS-1,2,3,4,5,6,7,8,9,10	3,580 SF
273, 274, 275	28-RI-A,B,C	Rolled-in insulation - yellow with brown and silver paper backing	FS-1	220 SF
276, 277, 278	29-RI-A,B,C	Rolled-in insulation - red, no backing	FS-1	220 SF
279, 280, 281	30-RI-A,B,C	Rolled-in insulation - red with brown backing	FS-4,5,6,7,8,9,10	2505 SF
	31-VI-A,B,C	Vermiculite - Assumed, NOT SAMPLED - in ceiling of FS-10. Debris in FS-1,7,8,9	FS-1,7,8,9,10	3 CY
285, 286, 287	32-VD-A,B,C	Vibration dampener - grey, on HVAC	FS-7	5 SF
288, 289, 290	33-TC-A,B,C	Terracotta capstone	EA-5	50 SF
291, 292, 293	34-DC-A,B,C	Duct tape - on HVAC	FS-7,8,9,10	5 SF

2/2

ATTACHMENT B
PHOTOGRAPHS

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT RESIDENTIAL PROPERTY
1852 S BURDICK STREET
KALAMAZOO, MI 49001



Street view of the house located at 1852 S Burdick Street (EA-1)



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

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT RESIDENTIAL PROPERTY
1852 S BURDICK STREET
KALAMAZOO, MI 49001



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



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

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT RESIDENTIAL PROPERTY
1852 S BURDICK STREET
KALAMAZOO, MI 49001



View of EA-5



View of FS-1

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT RESIDENTIAL PROPERTY
1852 S BURDICK STREET
KALAMAZOO, MI 49001



View of FS-2



View of FS-3

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT RESIDENTIAL PROPERTY
1852 S BURDICK STREET
KALAMAZOO, MI 49001



View of FS-4



View of FS-5

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT RESIDENTIAL PROPERTY
1852 S BURDICK STREET
KALAMAZOO, MI 49001



View of FS-6



View of FS-7

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT RESIDENTIAL PROPERTY
1852 S BURDICK STREET
KALAMAZOO, MI 49001



View of FS-8



View of FS-10

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT RESIDENTIAL PROPERTY
1852 S BURDICK STREET
KALAMAZOO, MI 49001



View of FS-11

ATTACHMENT C
FUNCTIONAL SPACE MAPS

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



EA-3

FS-6

FS-5

FS-7

FS-4

FS-11

FS-8

EA-4

FS-3

FS-1

FS-10

FS-9

EA-1

FS-2

EA-2

Street Address:

1852 S. Burdick

Inaccessible



1 Square = 2' x 2'