

Department of Management Services Purchasing Division

241 West South Street Kalamazoo, MI 49007-4796 Phone: 269.337.8020

Fax: 269.337.8500 www.kalamazoocity.org

MANDATORY PRE-BID MEETING - June 15, 2023, at 1:30 p.m. Stockbridge Facility (Main Conference Room), 415 East Stockbridge Avenue, Kalamazoo, MI 49001

INVITATION FOR BID (IFB)

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

PROJECT NAME: Asbestos Abatement & Demolition 322 AKA 328 E Stockbridge Ave (Bingo Hall)

BID REFERENCE #: 91240-021.0

IFB ISSUE DATE: June 8, 2023

BID DUE/OPENING DATE: June 29, 2023 @ 3:00 p.m. Local Time

Facsimile Bids Will Not Be Accepted.

MAILING ADDRESS & INSTRUCTIONS

Mail to: Questions about this IFB should be directed to:

Purchasing Division
241 West South Street

Department Contact: Roger Iveson
Building Official @ (269) 337-8560 or

Kalamazoo, MI 49007 <u>ivesonr@kalamazoocity.org</u>

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 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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City of Kalamazoo – Invitation for Bid
Asbestos Abatement & Demolition 322 AKA 328 E Stockbridge Ave (Bingo Hall)

STATEMENT OF NO BID

NOTE: If you <u>DO NOT</u> 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 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**: (Type or Print) TITLE: _____ DATE: _____ FIRM NAME: _____ (if any) ADDRESS: _____ (Street address) (City) (State) (Zip) FAX: _____ PHONE:

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 Division will maintain and guarantee confidentiality of the contents until the specified opening date and time. Bids submitted electronically will not be accepted.
- 3. **EXPLANATION TO BIDDERS**-Any binding explanation desired by a bidder regarding the meaning or interpretation of the Invitation for Bids (IFB) and attachments must be requested in writing, at least 5 business 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 ninety (90) 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.
- 9. **BID SUBMITTAL** Bidders can submit sealed bids in one of the following ways:
 - 9.1. **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

- 9.2. **Deliver your bid to City Hall In-Person** before the bid due date and time indicated in the bid document.
- 9.3. **Deliver your bid to the Treasurer's Office Payment Drop Box** located in the northwest corner of City Hall (see photos below) before the bid due date and time indicated in the bid document.



10. **BID TABULATIONS**- The Purchasing Division makes an effort to 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. However, in certain cases the posting of the bid tabulation may extend beyond the 24-hour window.

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 sum 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.

Asbestos Abatement & Demolition of 322 AKA 328 E Stockbridge Ave (Bingo Hall)

Item	Description	Lump Sum Bid
1.	Asbestos Abatement per specifications	\$
2.	Demolition per specifications	\$

^{*}The City reserves the right to split award by or award on an aggregate basis all items to one vendor whichever is in the best interest of the City.

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

Work shall start within 10 days of receipt of notice to proceed. Asbestos Survey to be completed by **August 11, 2023**; Final demolition to be completed by **September 22, 2023**; Post demo paperwork submitted to the City of Kalamazoo by **September 23, 2023**.

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.

City of Kalamazoo – Invitation for Bid Bid Reference No: 91240-021.0 Asbestos Abatement & Demolition of 322 AKA 328 E Stockbridge Ave (Bingo Hall) Page 4

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.

acknowledges receipt of the following addenda:	ed the bidding documents and attachments, and
Addendum No:	
Dated:	
Bidder shall provide all of the information as requested failure to provide post-bid requested information responsive.	
By my signature below, I certify that the firm bidding does not use a past criminal conviction as a bar to or p being considered for employment with the bidding fir law. I further certify that I have read and agree to Discrimination Clause found in Appendix A.	preclude a person with a criminal conviction from m unless otherwise precluded by federal or state
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 __

Please answer the following questions completely.

REFERENCE QUESTIONNAIRE

1. Firm name: _____ Year _____ Number of Employees: _____ 2. 3. Type of organization: a. Individual:b. Partnership:c. Corporation:d. Other: Former firm name(s) if any, and year(s) in business: 4. 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: Contact: Type of work or contract: 5.2 Company Name: Phone: Type of work or contract: 5.3 Company Name: 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.)

IIOIII	ine City.)	
	art I: Proof that the bidder does not nal history on the bidders employmen	inquire about an individual's past arrest or tapplication form
	Attach a copy of the current application	for employment being used by the bidder
crimi	art II: Certification that the bidder does inal history to unlawfully discriminate a wing:	not use an individual's past arrest or against them by checking <i>one or more</i> of the
	criminal records from holding particular	dder is precluded from hiring persons with certain positions or engaging in certain occupations by or regulation; if checking this box, provide a upon which the bidder is
	after making a conditional offer of employment to an individual because of consistent with business necessity after	o review and challenge or supplement the
	Equal Employment Opportunity Commis Consideration of Arrest and Conviction bidder has not had a determination rend	Records in Employment Decisions and that the
	I CERTIFY THAT THE ABOVE STATE	MENTS ARE TRUE.
	Date	Signature
		Printed Name

Position

City of Kalamazoo – Invitation for Bid Bid Reference No: 91240-021.0 Asbestos Abatement & Demolition of 322 AKA 328 E Stockbridge Ave (Bingo Hall) Page 9

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 agre document.			
SIGNED:	NAME:	(Type or Print)	
TITLE:	_ DATE:		
FIRM NAME:(if any)			
ADDRESS:(Street address)	(City)	(State)	(7in)
PHONE:	(City) FAX:	(State)	(Zip)
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 onsite 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 <u>unless prior written approval is obtained</u> 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 <u>Water Division</u> 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 <u>five (5)</u> <u>feet</u> outside the perimeter of the building foundation. Water utility lines shall be sealed/capped at least <u>five (5)</u> <u>feet</u> 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 <u>six (6)</u> inches below final grade.
- 19. Excavations shall be promptly filled with <u>clean</u> inorganic fill, compacted in lifts not exceeding eighteen (18) inches. The final (top) six (6) inches of fill shall consist of <u>clean</u> 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 FOR 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 Manager 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 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 Work shall start within 10 days of receipt of notice to proceed. Asbestos Survey to be completed by **August 11, 2023**; Final demolition to be completed by **September 22, 2023**; Post demo paperwork submitted to the City of Kalamazoo by **September 23, 2023**.

3. CONTRACTOR COORDINATION

- 3.1 The Contractor shall make every effort to coordinate every aspect of his work with that of other contractors on the site to assure an efficiently managed and proper installation.
- 3.2 Consideration shall be given to timing of construction, maintaining adequate construction access, and construction staging. Any costs associated with this coordination shall be included in the contract.

4. **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.

5. **PROTECTION OF PROPERTY**

- 5.1 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.
- 5.2 The Contractor shall be responsible for determining the location of and for protecting from damage any utilities or other improvements.

6. **REMOVAL OF RUBBISH**

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

7. **RESPONSIBILITY OF CONTRACTOR**

- 7.1 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.
- 7.2 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.
- 7.3 The contractor shall personally superintend the work or shall have a competent person at the site at all times to act for him/her.

8. **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.

9. **SITE ACCESS**

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

10. MATERIALS INSPECTION AND RESPONSIBILITY

- 10.1 The Project Manager shall have the right to inspect any materials to be used in carrying out the terms of the contract.
- 10.2 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.
- 10.3 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.

11. **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.

12. **SAFETY**

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

13. 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.

14. FOR DEMOLITION CONTRACTS

- 14.1 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.
- 14.2 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.

15. **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 Agent 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.

16. **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.

17. AWARD CRITERIA

The City reserves the right to split award by groups or award on an aggregate basis all items to one vendor whichever is in the best interest of the City.

18. MANDATORY 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 mandatory pre-bid meeting with representatives from the City of Kalamazoo is scheduled on **June 15, 2023** @ **1:30 p.m.** Then proceed to project sites at your own pace, open until 4:00 p.m. Questions may be emailed to Roger Iveson at ivesonr@kalamazoocity.org by **3:00 p.m. on June 21, 2023**.

19. **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@kalamazoocity.org or (269) 337-8560. Questions regarding the bid or award process may be directed to Monica Johnson, Buyer at johnsonm2@kalamazoocity.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:

<u>Workers' Compensation Insurance</u> 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.

<u>Automobile Liability</u> 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.

<u>Cancellation Notice</u>: 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.

<u>Proof of Insurance Coverage</u>: 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.

City of Kalamazoo – Invitation for Bid Bid Reference No: 91240-021.0 Asbestos Abatement & Demolition of 322 AKA 328 E Stockbridge Ave (Bingo Hall) Page 20

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 SPECIAL REQUIREMENTS

1. BID BOND/GUARANTEE

The bid must be accompanied by a bid bond which shall not be less than five (5%) percent of the total amount of the bid. No bid will be considered unless it is accompanied by the required guarantee. The bid guarantee shall ensure the execution of the bid and award, and the furnishing of a performance bond and a labor and material bond (A and B below) by the successful bidder. (Contractors Note: A cashier's or certified check in lieu of a bid bond is **NOT** acceptable.)

A. PERFORMANCE BOND

A performance bond shall be furnished in the full amount of the contract ensuring the City of faithful performance of all the provisions of the contract, and the satisfactory performance of any equipment required hereunder. The bond shall also ensure the City against defective workmanship and/or materials.

B. LABOR AND MATERIAL (PAYMENT) BOND

A labor and material (payment) bond shall be furnished for the period covered by the contract, in the full amount of the contract for the protection of labor and material suppliers and sub-contractors.

Bonds shall be secured by a guaranty or a surety company listed in the latest issue of the U.S. Treasury, circular 570, and licensed to do business in the State of Michigan, and written in favor of the City of Kalamazoo. The amount of such bonds shall be within the maximum amount specified for such company in said circular 570. The bonds shall be accompanied by a power of attorney showing authority of the bonding agent to sign such bonds on behalf of the guaranty or surety company. The cost of the bonds shall be borne by the Contractor.

Failure of the Contractor to supply the required bonds within ten (10) days after Notice of Award, or within such extended period as the Purchasing Agent may agree to, shall constitute a default and the City of Kalamazoo may either award this contract to the next lowest bidder or re-advertise for bids and may charge against the Contractor for the difference between the amount of the bid and the amount for which a contract for the work is subsequently executed, irrespective of whether the amount thus due exceeds the amount of the bid bond. If a more favorable bid is received by re-advertising, the defaulting bidder shall have no claim against the City of Kalamazoo for a refund.

2. 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.

3. **SUBCONTRACTORS**

- A. Contractors shall state on the Bid and Award page 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.
- B. The Contractor shall cooperate with the City of Kalamazoo in meeting its commitments and goals with regard to maximum utilization of minority and women business enterprise and shall use its best efforts to ensure that minority and women business enterprises have maximum practicable opportunity to compete for subcontract work under this agreement.

SECTION VII 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 Agent. Upon notification, the Contractor shall submit to the Purchasing 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 Agent 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 Agent. City Commission approval may also be required. SUCH CHANGES, IF PERFORMED IN ADVANCE OF PURCHASING AGENT 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



ASBESTOS REPORT

Asbestos Abatement & Demolition of 322 AKA 328 E Stockbridge Ave (Bingo Hall)

BID REFERENCE# 91240-021.0



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



Client Name:	City of Kalamazoo
Project Name:	Commercial Building Asbestos Survey
Project Number:	188bs23004
Project Site Address (Subject Property):	328 E Stockbridge, Kalamazoo, MI 49001
Date of Site Visit:	January 11, 2023
Asbestos Inspection Performed by:	Andrew DeLodder (A48677)
Asbestos Inspector's Signature:	Andrew De Sodder
Areas Not Accessible:	All Areas Accessible
Number of Floors:	2 + Roof
Asbestos Present (Yes/No/Other):	Yes

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

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

TABLE I
Asbestos-Containing Materials

ID#	MATERIAL	LOCATION	QUANTITY	RESULT	NESHAP CATEGORY
12-IC-A,B,C	Interior Caulk- Beige, Brittle, on Glazed Brick	FS- 1,2, 15	120 SF	PLM 3% Chrysotile	Cat II
15-IC-A,B,C	Interior Caulk-Beige & Brittle, Between Steel Door Frame and CMU Block	FS- 2, 5	30 SF	PLM 2% Chrysotile	Cat II
36-FT-A,B,C	Floor Tile- 9" Pink with Faint Gray Streaks, and Mastic	FS- 2	7,585 SF	PLM 4% Chrysotile (Floor Tile Only)	Cat I
37-FT-A,B,C	Floor Tile- 9" Green with Faint Gray Streaks, and Mastic	FS- 2	7,585 SF	PLM 3% Chrysotile (Floor Tile Only)	Cat I
38-FT-A,B,C	Floor Tile- 9" Off-White with Faint Gray Streaks, and Mastic	FS- 2,6,7	8,035 SF	PLM 4% Chrysotile (Floor Tile Only)	Cat I
39-FT-A,B,C	Floor Tile- 9" Gray with Faint Gray Streaks, and Mastic	FS- 5	20 SF	PLM 3% Chrysotile (Floor Tile Only)	Cat I
48-HS-A,B,C	Heat Shield- White, Between Panels on HVAC Fan	FS-1	2 SF	PLM 80% Chrysotile	RACM
50-EJ-A,B,C	Expansion Joint- CMU Block	EA- 1,3	300 LF	PLM 3% Chrysotile	RACM
56-TS-A,B,C	Transite Pipe, Under Foundation	FS-5	UNQ	PLM 60% Chrysotile	Cat II
58-RC- A,B,C,D,E,F	Roofing Core	EA-5 (Lower & Upper Roof)	19,300 SF	PLM 5% Chrysotile	Cat I
59-FD-A,B,C	Fire Door- Metal Door with White Interior Lining	EA-1	1 DOOR	PLM 10% Chrysotile	RACM

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

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

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

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

Suspect Asbestos-Containing Materials

HA/ID#	MATERIAL	LOCATION	RESULT
1-CC-A,B,C	Concrete Chip- Exterior Concrete	EA-1,2,4	ND
2-CC-A,B,C	Concrete Chip- Poured Building Foundation	FS- 2,5,15	ND
3-CC-A,B,C	Concrete Chip- Raised Pad for Former Boiler	FS- 4	ND
4-FL-A,B,C	Floor Leveler, White	FS- 2	ND
5-FL-A,B,C	Floor Leveler, Gray	FS- 2	ND
6-BM-A,B,C	Brick Mortar- CMU Block	FS- 5,9,15	ND
7-BM-A,B,C	Brick Mortar- Brick Wall	EA- 1,4	ND
8-BM-A,B,C	Brick Mortar- Glazed Ceramic Brick, Beige	FS- 1,2,15	ND
9-EJ-A,B,C	Expansion Joint- Black Paper between Floor & Exterior Walls	FS- 4,5	ND
10-WBS-A,B,C	Wallboard System	FS- 2, 15	ND
11-IC-A,B,C	Interior Caulk- Between Knee-Wall and Window Frame, Gray	FS-1 & EA-1	ND
12-IC-A,B,C	Interior Caulk- Beige, Brittle, on Glazed Brick	FS- 1,2, 15	PLM 3% Chrysotile
13-IC-A,B,C	Interior Caulk- Bright White, Around Sinks and Toilets	FS- 11, 12	ND
14-IC-A,B,C	Interior Caulk- White, Soft, Around Steel Door Frames	FS- 5, 10	ND
15-IC-A,B,C	Interior Caulk-Beige & Brittle, Between Steel Door Frame and CMU Block	FS- 2, 5	PLM 2% Chrysotile
16-IC-A,B,C	Interior Caulk- Beige, on Wood Trim around the Snack Shack Counter	FS- 2	ND
17-IC-A,B,C	Interior Caulk- Greenish- Gray, on Metal HVAC Seems	FS- 2	ND
18-IC-A,B,C	Interior Caulk-Off-White, on Metal Support Poles in Kitchen	FS- 3	ND
19-CA-A,B,C	Construction Adhesive- Beige, Under Wallboard on Glazed Brick	FS- 1, 2	ND
20-CA-A,B,C	Construction Adhesive- Beige, Under Kitchen Wall Panels	FS- 3	ND
21-CA-A,B,C	Construction Adhesive- Orange, Seems of Stainless-Steel Panels	FS- 3	ND
22-CA-A,B,C	Construction Adhesive- Around Perimeter of Sink Base	FS- 5	ND
23-CM-A,B,C	Carpet Mastic- 18 " Brown Carpet Tiles, Beige Mastic	FS- 2	ND
24-CM-A,B,C	Carpet Mastic- Beige Under Blue Carpet	FS- 13, 14	ND
25-CM-A,B,C	Carpet Mastic- Beige Under Brown Carpet	FS- 16, 17	ND
26-CP-A,B,C	Ceiling Panel- 2'x4', Styrofoam with Sprayed Coating on Top	FS- 2,13,14	ND
27-CP-A,B,C	Ceiling Panel- 2'x4' White, Small Pinhole and Fissure	FS- 13	ND
28-CP-A,B,C	Ceiling Panel- 2'x4' Large Pinhole and Fissure	FS- 14	ND
29-CP-A,B,C	Ceiling Panel- 2'x4' Art Deco Pattern	FS- 3	ND
30-CB-A,B,C	CoveBase 4" Brown Vinyl with Adhesive	FS- 2	ND
31-CB-A,B,C	CoveBase 4" Gray Vinyl with Adhesive	FS- 3,16,17	ND
32-CB-A,B,C	CoveBase 4" Blue Vinyl with Adhesive	FS- 13	ND

		T	Т
33-CB-A,B,C	CoveBase 4" Dark Gray Vinyl with Adhesive	FS- 14	ND
34-SU-A,B,C	Sink Undercoating, Yellowish- White	FS- 3	ND
35-BMA-A,B,C	Black Mastic- Exposed Black Mastic	FS- 1,2,15	ND
36-FT-A,B,C	Floor Tile- 9" Pink with Faint Gray Streaks, and Mastic	FS- 2	PLM 4% Chrysotile (Floor Tile Only)
37-FT-A,B,C	Floor Tile- 9" Green with Faint Gray Streaks, and Mastic	FS- 2	PLM 3% Chrysotile (Floor Tile Only)
38-FT-A,B,C	Floor Tile- 9" Off-White with Faint Gray Streaks, and Mastic	FS- 2,6,7	PLM 4% Chrysotile (Floor Tile Only)
39-FT-A,B,C	Floor Tile- 9" Gray with Faint Gray Streaks, and Mastic	FS- 5	PLM 3% Chrysotile (Floor Tile Only)
40-FT-A,B,C	Floor Tile- 12" Off-White with Gray Streaks	FS- 2, 3	ND
41-FT-A,B,C	Floor Tile- 12" Mottled Light Gray, Dark Gray, and Mastic	FS- 11,12	ND
42-PI-A,B,C	Pipe Insulation- Paper Wrapped Fiberglass	FS- 4	ND
43-PF-A,B,C	Pipe Fittings- Fiberglass with Plastic Cover	FS- 4	ND
44-RI-A,B,C	Rolled-in-Insulation Fiberglass HVAC Duct, Wrapped in Gray Plastic	FS- 2,14,16	ND
45-RI-A,B,C	Rolled-in-Insulation- Yellow Fiberglass, No Paper	FS- 2	ND
46-RI-A,B,C	Rolled-in-Insulation Foil Wrapped HVAC Duct	FS- 2,4,15	ND
47-VD-A,B,C	Vibration Dampener- Beige Canvas	FS-5	ND
48-HS-A,B,C	Heat Shield- White, Between Panels on HVAC Fan	FS-1	PLM 80% Chrysotile
49-CB-A,B,C	CoveBase 4' Black Vinyl with Adhesive	FS- 5,6,9	ND
50-EJ-A,B,C	Expansion Joint- CMU Block	EA- 1,3	PLM 3% Chrysotile
51-EC-A,B,C	Exterior Caulk- White, Around Door Frames	EA-3	ND
52-WG-A,B,C	Window Glaze- White	EA-4	ND
53-HS-A,B,C	Heat Shield- Fiberglass, in Light Fixture	EA- 1,4	ND
54-BM-A,B,C	Brick Mortar- Around Pipe Insulation	EA-1,2,3	ND
55-PI-A,B,C	Pipe Insulation- Gray Goopy Wrap	EA-1	ND
56-TS-A,B,C	Transite Pipe, Under Foundation	FS-5	PLM 60% Chrysotile
57-FT-A,B,C	Floor Tile 9" Beige with Red Streaks	FS-2	ND
58-RC- A,B,C,D,E,F	Roofing Core	EA-5 (Lower & Upper Roof)	PLM 5% Chrysotile
59-FD-A,B,C	Fire Door- Metal Door with White Interior Lining	EA-1	PLM 10% Chrysotile
60-FD-A,B,C	Fire Door- Metal Door with Corrugated Paper Lining	EA-3	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-2,	3
CRTs/TV Screens/ Monitors/Electronics	FS-2, 5	6
Automobile, Lawn Mower, Snow Blower	FS-6	1
Exit Signs	FS-2, 5, 10, 13, 14	9
FireExtinguishers	FS-3, 4, 6	5
Fluorescent/HID Light Flutres/Bulbs/Ballasts	FS-1, 2, 3, 4, 5, 6, 7, 8, 9,10, 11, 12, 13, 14, 15, 16	235
Misc. Items (Glue, Solvents, Cleaners, etc.)	FS-2, 4, 5, 13, 14, 15, 16	44
Paint Cans	FS-4, 5, 15, 16	58
Smoke Detectors	FS-2, 3	5
Thermostats	FS-2	1
Natural Gas Regulator	FS-4	1
UnlabeledContainers (Drums, Totes)	FS-2, 5	7
Tires	EA-1	2

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

Table IV Functional Space/ Exterior Area Designations

DESCRIPTION	DESIGNATION		
Interior Functional Spaces			
Ground Level	FS- 1,2,3,4,5,6,7,8,10,11,12,13,14,15,16,17		
Mezzanine Level	FS- 9		
Exterior Areas			
Roof	EA-5		
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

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: 254184 Client Project: 188BS23004 Report Date: 1/23/2023

Attention: Robert Smith

Project Location: 328 E Stockbridge, Kalamazoo, MI 49001

City of Kalamazoo

Lab Sample Number	Client Sample Number	Sample Type	Completed
1445828	1-CC-A	Asbestos	01/20/2023
1445829	1-CC-B	Asbestos	01/20/2023
1445830	1-CC-C	Asbestos	01/20/2023
1445831	2-CC-A	Asbestos	01/20/2023
1445832	2-CC-B	Asbestos	01/20/2023
1445833	2-CC-C	Asbestos	01/20/2023
1445834	3-CC-A	Asbestos	01/20/2023
1445835	3-CC-B	Asbestos	01/20/2023
1445836	3-CC-C	Asbestos	01/20/2023
1445837	4-FL-A	Asbestos	01/20/2023
1445838	4-FL-B	Asbestos	01/20/2023
1445839	4-FL-C	Asbestos	01/20/2023
1445840	5-FL-A	Asbestos	01/20/2023
1445841	5-FL-B	Asbestos	01/20/2023
1445842	5-FL-C	Asbestos	01/20/2023
1445843	6-BM-A	Asbestos	01/20/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1445844	6-BM-B	Asbestos	01/20/2023
1445845	6-BM-C	Asbestos	01/20/2023
1445846	7-BM-A	Asbestos	01/20/2023
1445847	7-BM-B	Asbestos	01/20/2023
1445848	7-BM-C	Asbestos	01/20/2023
1445849	8-BM-A	Asbestos	01/20/2023
1445850	8-BM-B	Asbestos	01/20/2023
1445851	8-BM-C	Asbestos	01/20/2023
1445852	9-EJ-A	Asbestos	01/20/2023
1445853	9-EJ-B	Asbestos	01/20/2023
1445854	9-EJ-C	Asbestos	01/20/2023
1445855	10-WBS-A	Asbestos	01/20/2023
1445856	10-WBS-B	Asbestos	01/20/2023
1445857	10-WBS-C	Asbestos	01/20/2023
1445858	11-IC-A	Asbestos	01/20/2023
1445859	11-IC-B	Asbestos	01/20/2023
1445860	11-IC-C	Asbestos	01/20/2023
1445861	12-IC-A	Asbestos	01/20/2023
1445862	12-IC-B	Asbestos	01/20/2023
1445863	12-IC-C	Asbestos	01/20/2023
1445864	13-IC-A	Asbestos	01/20/2023
1445865	13-IC-B	Asbestos	01/20/2023
1445866	13-IC-C	Asbestos	01/20/2023
1445867	14-IC-A	Asbestos	01/20/2023
1445868	14-IC-B	Asbestos	01/20/2023
1445869	14-IC-C	Asbestos	01/20/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1445870	15-IC-A	Asbestos	01/20/2023
1445871	15-IC-B	Asbestos	01/20/2023
1445872	15-IC-C	Asbestos	01/20/2023
1445873	16-IC-A	Asbestos	01/20/2023
1445874	16-IC-B	Asbestos	01/20/2023
1445875	16-IC-C	Asbestos	01/20/2023
1445876	17-IC-A	Asbestos	01/20/2023
1445877	17-IC-B	Asbestos	01/20/2023
1445878	17-IC-C	Asbestos	01/20/2023
1445879	18-IC-A	Asbestos	01/20/2023
1445880	18-IC-B	Asbestos	01/20/2023
1445881	18-IC-C	Asbestos	01/20/2023
1445882	19-CA-A	Asbestos	01/20/2023
1445883	19-CA-B	Asbestos	01/20/2023
1445884	19-CA-C	Asbestos	01/20/2023
1445885	20-CA-A	Asbestos	01/20/2023
1445886	20-CA-B	Asbestos	01/20/2023
1445887	20-CA-C	Asbestos	01/20/2023
1445888	21-CA-A	Asbestos	01/20/2023
1445889	21-CA-B	Asbestos	01/20/2023
1445890	21-CA-C	Asbestos	01/20/2023
1445891	22-CA-A	Asbestos	01/20/2023
1445892	22-CA-B	Asbestos	01/20/2023
1445893	22-CA-C	Asbestos	01/20/2023
1445894	23-CM-A	Asbestos	01/20/2023
1445895	23-CM-B	Asbestos	01/20/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1445896	23-CM-C	Asbestos	01/20/2023
1445897	24-CM-A	Asbestos	01/20/2023
1445898	24-CM-B	Asbestos	01/20/2023
1445899	24-CM-C	Asbestos	01/20/2023
1445900	25-CM-A	Asbestos	01/23/2023
1445901	25-CM-B	Asbestos	01/23/2023
1445902	25-CM-C	Asbestos	01/23/2023
1445903	26-CP-A	Asbestos	01/23/2023
1445904	26-CP-B	Asbestos	01/23/2023
1445905	26-CP-C	Asbestos	01/23/2023
1445906	27-CP-A	Asbestos	01/23/2023
1445907	27-CP-B	Asbestos	01/23/2023
1445908	27-CP-C	Asbestos	01/23/2023
1445909	28-CP-A	Asbestos	01/23/2023
1445910	28-CP-B	Asbestos	01/23/2023
1445911	28-CP-C	Asbestos	01/23/2023
1445912	29-CP-A	Asbestos	01/23/2023
1445913	29-CP-B	Asbestos	01/23/2023
1445914	29-CP-C	Asbestos	01/23/2023
1445915	30-CB-A	Asbestos	01/23/2023
1445916	30-CB-B	Asbestos	01/23/2023
1445917	30-CB-C	Asbestos	01/23/2023
1445918	31-CB-A	Asbestos	01/23/2023
1445919	31-CB-B	Asbestos	01/23/2023
1445920	31-CB-C	Asbestos	01/23/2023
1445921	32-CB-A	Asbestos	01/23/2023

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Lab Sample Number	Client Sample Number	Sample Type	Completed
1445922	32-CB-B	Asbestos	01/23/2023
1445923	32-CB-C	Asbestos	01/23/2023
1445924	33-CB-A	Asbestos	01/23/2023
1445925	33-CB-B	Asbestos	01/23/2023
1445926	33-CB-C	Asbestos	01/23/2023
1445927	34-SU-A	Asbestos	01/23/2023
1445928	34-SU-B	Asbestos	01/23/2023
1445929	34-SU-C	Asbestos	01/23/2023
1445930	35-BMA-A	Asbestos	01/23/2023
1445931	35-BMA-B	Asbestos	01/23/2023
1445932	35-BMA-C	Asbestos	01/23/2023
1445933	36-FT-A	Asbestos	01/23/2023
1445934	36-FT-B	Asbestos	01/23/2023
1445935	36-FT-C	Asbestos	01/23/2023
1445936	37-FT-A	Asbestos	01/23/2023
1445937	37-FT-B	Asbestos	01/23/2023
1445938	37-FT-C	Asbestos	01/23/2023
1445939	38-FT-A	Asbestos	01/23/2023
1445940	38-FT-B	Asbestos	01/23/2023
1445941	38-FT-C	Asbestos	01/23/2023
1445942	39-FT-A	Asbestos	01/23/2023
1445943	39-FT-B	Asbestos	01/23/2023
1445944	39-FT-C	Asbestos	01/23/2023
1445945	40-FT-A	Asbestos	01/23/2023
1445946	40-FT-B	Asbestos	01/23/2023
1445947	40-FT-C	Asbestos	01/23/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1445948	41-FT-A	Asbestos	01/23/2023
1445949	41-FT-B	Asbestos	01/23/2023
1445950	41-FT-C	Asbestos	01/23/2023
1445951	42-PI-A	Asbestos	01/23/2023
1445952	42-PI-B	Asbestos	01/23/2023
1445953	42-PI-C	Asbestos	01/23/2023
1445954	43-PF-A	Asbestos	01/23/2023
1445955	43-PF-B	Asbestos	01/23/2023
1445956	43-PF-C	Asbestos	01/23/2023
1445957	44-RI-A	Asbestos	01/23/2023
1445958	44-RI-B	Asbestos	01/23/2023
1445959	44-RI-C	Asbestos	01/23/2023
1445960	45-RI-A	Asbestos	01/23/2023
1445961	45-RI-B	Asbestos	01/23/2023
1445962	45-RI-C	Asbestos	01/23/2023
1445963	46-RI-A	Asbestos	01/23/2023
1445964	46-RI-B	Asbestos	01/23/2023
1445965	46-RI-C	Asbestos	01/23/2023
1445966	47-VD-A	Asbestos	01/23/2023
1445967	47-VD-B	Asbestos	01/23/2023
1445968	47-VD-C	Asbestos	01/23/2023
1445969	48-HS-A	Asbestos	01/23/2023
1445970	48-HS-B	Asbestos	01/23/2023
1445971	48-HS-C	Asbestos	01/23/2023
1445972	49-CB-A	Asbestos	01/23/2023
1445973	49-CB-B	Asbestos	01/23/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1445974	49-CB-C	Asbestos	01/23/2023
1445975	50-EJ-A	Asbestos	01/23/2023
1445976	50-EJ-B	Asbestos	01/23/2023
1445977	50-EJ-C	Asbestos	01/23/2023
1445978	51-EC-A	Asbestos	01/23/2023
1445979	51-EC-B	Asbestos	01/23/2023
1445980	51-EC-C	Asbestos	01/23/2023
1445981	52-WG-A	Asbestos	01/23/2023
1445982	52-WG-B	Asbestos	01/23/2023
1445983	52-WG-C	Asbestos	01/23/2023
1445984	53-HS-A	Asbestos	01/23/2023
1445985	53-HS-B	Asbestos	01/23/2023
1445986	53-HS-C	Asbestos	01/23/2023
1445987	54-BM-A	Asbestos	01/23/2023
1445988	54-BM-B	Asbestos	01/23/2023
1445989	54-BM-C	Asbestos	01/23/2023
1445990	55-PI-A	Asbestos	01/23/2023
1445991	55-PI-B	Asbestos	01/23/2023
1445992	55-PI-C	Asbestos	01/23/2023
1445993	56-TS-A	Asbestos	01/23/2023
1445994	56-TS-B	Asbestos	01/23/2023
1445995	56-TS-C	Asbestos	01/23/2023
1445996	57-FT-A	Asbestos	01/23/2023
1445997	57-FT-B	Asbestos	01/23/2023
1445998	57-FT-C	Asbestos	01/23/2023
1445999	58-RC-A	Asbestos	01/23/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1446000	58-RC-B	Asbestos	01/23/2023
1446001	58-RC-C	Asbestos	01/23/2023
1446002	58-RC-D	Asbestos	01/23/2023
1446003	58-RC-E	Asbestos	01/23/2023
1446004	58-RC-F	Asbestos	01/23/2023
1446005	59-FD-A	Asbestos	01/23/2023
1446006	59-FD-B	Asbestos	01/23/2023
1446007	59-FD-C	Asbestos	01/23/2023
1446008	60-FD-A	Asbestos	01/23/2023
1446009	60-FD-B	Asbestos	01/23/2023
1446010	60-FD-C	Asbestos	01/23/2023

Reviewed by:

Emily North

Emily Nowacki

Summary

Method	Sample	Layer	Mastic
PLM	185	3	36



Analyst: OJ Ivey Date Analyzed:

01/20/2023

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location: City of Kalamazoo

328 E Stockbridge, Kalamazoo, MI 49001

ETL Job: 254184

Client Project: 188BS23004

	_				
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445828 1-CC-A	Concrete Chip, Exterior Concrete	Gray Non-Fibrous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-1 Analyst: 0 Date Analyzed :	OJ Ivey 01/20/2023	Homogenous			
1445828 1-CC-A	Plaster	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-2 Analyst: 0 Date Analyzed :	OJ Ivey 01/20/2023				
1445829 1-CC-B	Concrete Chip, Exterior Concrete	Gray / Peach Non-Fibrous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445830 1-CC-C	Concrete Chip, Exterior Concrete	Gray / Peach Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023				
1445831 2-CC-A	Concrete Chip, Poured Building Foundation	Gray / Red Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445832 2-CC-B	Concrete Chip, Poured Building Foundation	Gray / Red Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected





Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location: City of Kalamazoo

328 E Stockbridge, Kalamazoo, MI 49001

ETL Job: 254184

Client Project: 188BS23004

Date Collected: 01/11/2023

Date Received: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445833 2-CC-C	Concrete Chip, Poured Building Foundation	Gray / Red Non-Fibrous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445834 3-CC-A	Concrete Chip, Raised Pad for Former Boiler	Beige Non-Fibrous Homogenous	PLM 6% Cellulose	PLM 94% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	nomogenous			
1445835 3-CC-B	Concrete Chip, Raised Pad for Former Boiler	Beige Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogeneus			
1445836 3-CC-C	Concrete Chip, Raised Pad for Former Boiler	Beige Non-Fibrous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445837 4-FL-A	Floor Leveler	White Non-Fibrous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: OJ lvey Date Analyzed :	01/20/2023	Homogenous			
1445838 4-FL-B	Floor Leveler	White Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed:	01/20/2023	Homogenous			



Date Analyzed :

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ETL Job: 254184

Client Project: 188BS23004

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445839 4-FL-C	Floor Leveler	White Non-Fibrous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445840 5-FL-A	Floor Leveler	Gray Non-Fibrous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445841 5-FL-B	Floor Leveler	Gray Non-Fibrous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445842 5-FL-C	Floor Leveler	Gray Non-Fibrous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445843 6-BM-A	Brick Mortar CMU Block	Gray Non-Fibrous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445844 6-BM-B	Brick Mortar CMU Block	Gray Non-Fibrous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Analyst: OJ Ivey		Homogenous			



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Client Project: 188BS23004

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445845 6-BM-C	Brick Mortar CMU Block	Gray Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445846 7-BM-A	Brick Mortar Brick Wall	Red Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: (Date Analyzed :	OJ Ivey 01/20/2023	Tiomogeneda			
1445846 7-BM-A	Mortar	Gray Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: 0 Date Analyzed :	OJ Ivey 01/20/2023	Homogenous			
1445847 7-BM-B	Brick Mortar Brick Wall	Red Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: (Date Analyzed :	OJ Ivey 01/20/2023	Homogenous			
1445847 7-BM-B Layer-2 Analyst:	Mortar	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layor-Z Anaiyst.	OU 140y				



Analyst: OJ Ivey Date Analyzed:

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ETL Job: 254184

Client Project: 188BS23004

Date Collected: 01/11/2023 **Date Received**: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445848 7-BM-C	Brick Mortar Brick Wall	Red Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: 0 Date Analyzed :	OJ Ivey 01/20/2023	Homogenous			
1445848 7-BM-C	Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: 0 Date Analyzed :	OJ Ivey 01/20/2023	, ionicgonicae			
1445849 8-BM-A	Brick Mortar Glazed Ceramic Brick	Beige Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	S			
1445850 8-BM-B	Brick Mortar Glazed Ceramic Brick	Beige Non-Fibrous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445851 8-BM-C	Brick Mortar Glazed Ceramic Brick	Beige Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445852 9-EJ-A	Expansion Joint, Paper Between Floor and Ext. Walls	Black Fibrous	PLM 25% Cellulose	PLM 75% Other	PLM None Detected

Homogenous



Layer-3 Analyst: OJ Ivey
Date Analyzed: 01/20/2023

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos	
1445853 9-EJ-B	Expansion Joint, Paper Between Floor and Ext. Walls	Black Fibrous Homogenous	PLM 20% Cellulose	PLM 80% Other	PLM None Detected	
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous				
1445854 9-EJ-C	Expansion Joint, Paper Between Floor and Ext. Walls	Black Fibrous Homogenous	PLM 25% Cellulose	PLM 75% Other	PLM None Detected	
Analyst: OJ Ivey Date Analyzed :	01/20/2023					
1445855 10-WBS-A	Wallboard System-Wallboard	Gray Non-Fibrous	PLM 9% Cellulose	PLM 91% Other	PLM None Detected	
Layer-1 Analyst: C Date Analyzed :	OJ Ivey 01/20/2023	Homogenous				
1445855 10-WBS-A	Texture	Gray Non-Fibrous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected	
_ayer-2 Analyst: C Date Analyzed :	OJ Ivey 01/20/2023	Homogenous				
1445855 10-WBS-A	Таре	Beige Non-Fibrous	PLM 35% Cellulose	PLM 65% Other	PLM None Detected	
Lavor 3 Analyst: (Ollyoy	Homogenous				



Date Analyzed: 01/20/2023

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ETL Job: 254184

Client Project: 188BS23004

10-WBS-B Layer-1 Analyst: OJ Ivey Date Analyzed: 01/20/2023 1445856 Texture Gray PLM 1% Cellulose PLM 99% Other PLM None Detect Non-Fibrous Homogenous 1445856 Tape Beige PLM 20% Cellulose PLM 80% Other PLM None Detect Non-Fibrous Homogenous 1445856 Tape Beige PLM 20% Cellulose PLM 80% Other PLM None Detect Non-Fibrous Homogenous 1445857 Wallboard System-Wallboard Non-Fibrous Homogenous Homogenous 1445857 Toture Gray PLM 10% Cellulose PLM 90% Other PLM None Detect Non-Fibrous Homogenous 1445857 Texture Gray PLM 10% Cellulose PLM 90% Other PLM None Detect Non-Fibrous Homogenous 1445857 Texture Gray PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous 1445857 Texture Gray PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous 1445857 Tape Beige PLM 25% Cellulose PLM 75% Other PLM None Detect Non-Fibrous Homogenous	Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
Layer-1 Analyst: OJ Ivey Date Analyzed: 01/20/2023 1445856 Texture Gray PLM 1% Cellulose PLM 99% Other PLM None Detect 10-WBS-B Non-Fibrous Homogenous Date Analyzed: 01/20/2023 1445856 Tape Beige PLM 20% Cellulose PLM 80% Other PLM None Detect 10-WBS-B Non-Fibrous Homogenous Date Analyzed: 01/20/2023 1445857 Wallboard System-Wallboard Non-Fibrous Homogenous Date Analyzed: 01/20/2023 1445857 Texture Gray PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous Date Analyzed: 01/20/2023 1445857 Texture Gray PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous Date Analyzed: 01/20/2023 1445857 Tape Beige PLM 25% Cellulose PLM 75% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 75% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 75% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 75% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 75% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 75% Other PLM None Detect Non-Fibrous Homogenous PLM 5% Cellulose PLM 75% Other PLM None Detect Non-Fibrous PLM 75% Oth		Wallboard System-Wallboard	Non-Fibrous	PLM 10% Cellulose	PLM 90% Other	PLM None Detected
10-WBS-B Non-Fibrous Homogenous Non-Fibrous H			Homogenous			
ayer-2 Analyst: OJ Ivey ate Analyzed: 01/20/2023 445856 Tape Beige PLM 20% Cellulose PLM 80% Other PLM None Detect O-WBS-B Non-Fibrous Homogenous ayer-3 Analyst: OJ Ivey ate Analyzed: 01/20/2023 445857 Wallboard System-Wallboard Gray PLM 10% Cellulose PLM 90% Other PLM None Detect Non-Fibrous Homogenous 445857 Texture Gray PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous 445857 Texture Gray PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous 445857 Tape Beige PLM 25% Cellulose PLM 75% Other PLM None Detect A45857 Tape Beige PLM 25% Cellulose PLM 75% Other PLM None Detect A45857 Tape Beige PLM 25% Cellulose PLM 75% Other PLM None Detect A45857 Tape Beige PLM 25% Cellulose PLM 75% Other PLM None Detect A45857 Tape Beige PLM 25% Cellulose PLM 75% Other PLM None Detect A45857 Tape PLM None Detect A45858 Tape PLM 25% Cellulose PLM 75% Other PLM None Detect A45857 Tape PLM None D		Texture	•	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
0-WBS-B Non-Fibrous Homogenous Non-Fibrous Homogenous Non-Fibrous Homogenous A45857 Wallboard System-Wallboard O-WBS-C Non-Fibrous Homogenous Non-Fibrous Homogenous Non-Fibrous Homogenous Non-Fibrous Homogenous Non-Fibrous Homogenous Non-Fibrous Homogenous A45857 Texture Gray PLM 5% Cellulose PLM 95% Other PLM None Detection of the plant of the			Homogenous			
Ayer-3 Analyst: OJ Ivey Date Analyzed: 01/20/2023 445857 Wallboard System-Wallboard Gray PLM 10% Cellulose PLM 90% Other PLM None Detect Non-Fibrous Homogenous Ayer-1 Analyst: OJ Ivey Date Analyzed: 01/20/2023 445857 Texture Gray PLM 5% Cellulose PLM 95% Other PLM None Detect Non-Fibrous Homogenous 445857 Tape Beige PLM 25% Cellulose PLM 75% Other PLM None Detection of the public PLM None		Таре	Non-Fibrous	PLM 20% Cellulose	PLM 80% Other	PLM None Detected
0-WBS-C Non-Fibrous Homogenous A45857 Texture Gray PLM 5% Cellulose PLM 95% Other PLM None Detection of the Analyzed: 01/20/2023 A45857 Texture Gray PLM 5% Cellulose PLM 95% Other PLM None Detection of the Analyzed: 01/20/2023 A45857 Tape Beige PLM 25% Cellulose PLM 75% Other PLM None Detection of the Analyzed: PLM None Detection of the Analyzed: PLM None Detection of the Analyzed: PLM 75% Other PLM			Homogenous			
ayer-1 Analyst: OJ Ivey late Analyzed: 01/20/2023 445857 Texture Gray PLM 5% Cellulose PLM 95% Other PLM None Detect 0-WBS-C Non-Fibrous Homogenous ayer-2 Analyst: OJ Ivey late Analyzed: 01/20/2023 445857 Tape Beige PLM 25% Cellulose PLM 75% Other PLM None Detectors Beige PLM 25% Cellulose PLM 75% Other PLM None Detectors PLM None Detectors PLM 75% Other PLM None Detectors		Wallboard System-Wallboard	Non-Fibrous	PLM 10% Cellulose	PLM 90% Other	PLM None Detected
0-WBS-C Non-Fibrous Homogenous ayer-2 Analyst: OJ Ivey atte Analyzed: 01/20/2023 Beige PLM 25% Cellulose PLM 75% Other PLM None Detections of the PLM None Detection of the P			Homogenous			
ayer-2 Analyst: OJ Ivey Date Analyzed: 01/20/2023 445857 Tape Beige PLM 25% Cellulose PLM 75% Other PLM None Detec		Texture	•	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Tape T Livi 20 / Octiviose T Livi 70 / Ottiviose T Livi 10 / Ottiv		•	Homogenous			
0-WBS-C Non-Fibrous	1445857 10-WBS-C	Таре	Beige Non-Fibrous	PLM 25% Cellulose	PLM 75% Other	PLM None Detected



Sample Not Analyzed

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location: City of Kalamazoo

328 E Stockbridge, Kalamazoo, MI 49001

ETL Job: 254184

Client Project: 188BS23004

 $\textbf{Date Collected}: \ 01/11/2023$

Date Received: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445858 11-IC-A	Interior Caulk, Between Knee Wall and Window Frame	Beige Non-Fibrous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445859 11-IC-B	Interior Caulk, Between Knee Wall and Window Frame	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	. ioinegeneae			
1445860 11-IC-C	Interior Caulk, Between Knee Wall and Window Frame	Beige Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	nomogenous			
1445861 12-IC-A	Interior Caulk, Brittle, on Glazed Brick	Beige Non-Fibrous	PLM 2% Cellulose	PLM 95% Other	PLM 3% Chrysotile
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445862 12-IC-B		Positive Stop			
Analyst: OJ Ivey Date Analyzed:	01/20/2023				
Sample Not Analy	zed				
1445863 12-IC-C		Positive Stop			
Analyst: OJ Ivey Date Analyzed:	01/20/2023				





Polarized Light Microscopy Asbestos Analysis Report

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Client Project: 188BS23004

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Location: City of Kalamazoo 328 E Stockbridge, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445864 13-IC-A	Interior Caulk, around Sinks and Toilets	Bright White Non-Fibrous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445865 13-IC-B	Interior Caulk, around Sinks and Toilets	Bright White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	, and the second			
1445866 13-IC-C	Interior Caulk, around Sinks and Toilets	Bright White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023				
1445867 14-IC-A	Interior Caulk, Soft, around Steel Door Frames	White / Cream Non-Fibrous Homogenous	PLM 9% Cellulose	PLM 91% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445868 14-IC-B	Interior Caulk, Soft, around Steel Door Frames	White / Cream Non-Fibrous	PLM 10% Cellulose	PLM 90% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445869 14-IC-C	Interior Caulk, Soft, around Steel Door Frames	White / Cream Non-Fibrous	PLM 7% Cellulose	PLM 93% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			



Date Analyzed :

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Date Collected: 01/11/2023 **Date Received**: 01/18/2023

Location: City of Kalamazoo

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445870 15-IC-A	Interior Caulk, Brittle Between Door Frame / CMU Block	Beige / Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 97% Other	PLM 2% Chrysotile
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogeneus			
1445871 15-IC-B		Positive Stop			
Analyst: OJ Ivey Date Analyzed :	01/20/2023				
Sample Not Analy	/zed				
1445872 15-IC-C		Positive Stop			
Analyst: OJ Ivey Date Analyzed :	01/20/2023				
Sample Not Analy	/zed				
1445873 16-IC-A	Interior Caulk, on Wood Frame Around Snack Shack	Beige Non-Fibrous Homogenous	PLM 10% Cellulose	PLM 90% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445874 16-IC-B	Interior Caulk, on Wood Frame Around Snack Shack	Beige Non-Fibrous	PLM 7% Cellulose	PLM 93% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445875 16-IC-C	Interior Caulk, on Wood Frame Around Snack Shack	Beige Non-Fibrous Homogenous	PLM 10% Cellulose	PLM 90% Other	PLM None Detected
Analyst: OJ Ivey		3			



Analyst: OJ Ivey Date Analyzed:

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Date Collected: 01/11/2023 **Date Received**: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445876 17-IC-A	Interior Caulk, on Metal HVAC Seams	Greenish-Grey Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445877 17-IC-B	Interior Caulk, on Metal HVAC Seams	Greenish-Grey Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	, ioniegonicas			
1445878 17-IC-C	Interior Caulk, on Metal HVAC Seams	Greenish-Grey Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Ū			
1445879 18-IC-A	Interior Caulk, on Metal Support Poles in Kitchen	Off White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445880 18-IC-B	Interior Caulk, on Metal Support Poles in Kitchen	Off White Non-Fibrous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445881 18-IC-C	Interior Caulk, on Metal Support Poles in Kitchen	Off White Non-Fibrous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

Homogenous





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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445882 19-CA-A	Construction Adhesive, under Wallboard on Glazed Brick	Beige Non-Fibrous	PLM 4% Fiberglass	PLM 96% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445883 19-CA-B	Construction Adhesive, under Wallboard on Glazed Brick	Beige Non-Fibrous Homogenous	PLM 2% Fiberglass	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445884 19-CA-C	Construction Adhesive, under Wallboard on Glazed Brick	Beige Non-Fibrous Homogenous	PLM 1% Fiberglass	PLM 99% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445885 20-CA-A	Construction Adhesive, under Kitchen Wall Panels	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445886 20-CA-B	Construction Adhesive, under Kitchen Wall Panels	Beige Non-Fibrous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445887 20-CA-C	Construction Adhesive, under Kitchen Wall Panels	Beige Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: OJ Ivey	04/00/0000				





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Client Project: 188BS23004

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445888 21-CA-A	Construction Adhesive, Seam, on Stainless Steel Panels	Orange Non-Fibrous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: OJ lvey Date Analyzed :	01/20/2023	Homogenous			
1445889 21-CA-B	Construction Adhesive, Seam, on Stainless Steel Panels	Orange Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homegonoue			
1445890 21-CA-C	Construction Adhesive, Seam, on Stainless Steel Panels	Orange Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445891 22-CA-A	Construction Adhesive, around Perimeter of Sink Base	Beige Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	riomogenous			
1445892 22-CA-B	Construction Adhesive, around Perimeter of Sink Base	Beige Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445893 22-CA-C	Construction Adhesive, around Perimeter of Sink Base	Beige Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Analyst: OJ Ivey	04/00/0000	5			



Layer-2 Analyst: OJ Ivey
Date Analyzed: 01/20/2023

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location: City of Kalamazoo

328 E Stockbridge, Kalamazoo, MI 49001

ETL Job: 254184

Client Project: 188BS23004

Date Collected: 01/11/2023 **Date Received**: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445894 23-CM-A	Carpet Mastic, 18 in. Carpet Tiles	Brown Fibrous	PLM 91% Cellulose	PLM 9% Other	PLM None Detected
Layer-1 Analyst: C Date Analyzed :	OJ Ivey 01/20/2023	Homogenous			
1445894 23-CM-A	Mastic	Beige Non-Fibrous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-2 Analyst: C Date Analyzed :	OJ Ivey 01/20/2023	Homogenous			
1445895 23-CM-B	Carpet Mastic, 18 in. Carpet Tiles	Brown Fibrous	PLM 88% Cellulose	PLM 12% Other	PLM None Detected
Layer-1 Analyst: C Date Analyzed :	OJ Ivey 01/20/2023	Homogenous			
1445895 23-CM-B	Mastic	Beige Non-Fibrous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-2 Analyst: 0 Date Analyzed :	OJ Ivey 01/20/2023	Homogenous			
1445896 23-CM-C	Carpet Mastic, 18 in. Carpet Tiles	Brown Fibrous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
Layer-1 Analyst: C Date Analyzed :	OJ Ivey 01/20/2023	Homogenous			
1445896 23-CM-C	Mastic	Beige Non-Fibrous	PLM 9% Cellulose	PLM 91% Other	PLM None Detected

Homogenous



Date Analyzed: 01/23/2023

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

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Novi, Michigan 48377

Location: City of Kalamazoo

328 E Stockbridge, Kalamazoo, MI 49001

ETL Job: 254184

Client Project: 188BS23004

Date Collected : 01/11/2023

Date Received: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445897 24-CM-A	Carpet Mastic	Beige Non-Fibrous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445898 24-CM-B	Carpet Mastic	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogeneus			
1445899 24-CM-C	Carpet Mastic	Beige Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed :	01/20/2023	Homogenous			
1445900 25-CM-A	Carpet Mastic	Beige Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Alex Nob Date Analyzed :	e 01/23/2023	Homogenous			
1445901 25-CM-B	Carpet Mastic	Beige Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Alex Nob Date Analyzed :	le 01/23/2023	Homogenous			
1445902 25-CM-C	Carpet Mastic	Beige Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Alex Nob	e	Homogenous			



Sample

1445907

27-CP-B

1445908

27-CP-C

Analyst: Alex Noble
Date Analyzed:

Analyst: Alex Noble
Date Analyzed: 01/23/2023

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% Asbestos

Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

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Novi, Michigan 48377

Location: City of Kalamazoo

Description

Ceiling Panel 2'x4'

Ceiling Panel 2'x4'

01/23/2023

328 E Stockbridge, Kalamazoo, MI 49001

Appearance

ETL Job: 254184

Client Project: 188BS23004

% Non-Fibrous

PLM 15% Other

PLM 15% Other

Date Collected: 01/11/2023 **Date Received**: 01/18/2023

1445903 26-CP-A Analyst: Alex Noble Date Analyzed: 0	Styrofoam Ceiling Panel 2'x4' 1/23/2023	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1445904 26-CP-B Analyst: Alex Noble Date Analyzed: 0	Styrofoam Ceiling Panel 2'x4' 1/23/2023	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1445905 26-CP-C Analyst: Alex Noble Date Analyzed: 0°	Styrofoam Ceiling Panel 2'x4' 1/23/2023	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1445906 27-CP-A Analyst: Alex Noble Date Analyzed: 0	Ceiling Panel 2'x4' 1/23/2023	White Fibrous Homogenous	PLM 50% Cellulose PLM 35% Fiberglass	PLM 15% Other	PLM None Detected

PLM 50% Cellulose

PLM 35% Fiberglass

PLM 50% Cellulose

PLM 35% Fiberglass

% Fibrous

White

White

Fibrous

Homogenous

Fibrous

Homogenous

PLM None Detected

PLM None Detected



Date Analyzed: 01/23/2023

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Novi, Michigan 48377

Location: City of Kalamazoo

328 E Stockbridge, Kalamazoo, MI 49001

ETL Job: 254184

Client Project: 188BS23004

Date Collected: 01/11/2023

Date Received: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445909 28-CP-A	Ceiling Panel 2'x4'	White Fibrous Homogenous	PLM 50% Cellulose PLM 35% Fiberglass	PLM 15% Other	PLM None Detected
Analyst: Alex No Date Analyzed :	ble 01/23/2023	. ionogeneed			
1445910 28-CP-B	Ceiling Panel 2'x4'	White Fibrous	PLM 50% Cellulose PLM 35% Fiberglass	PLM 15% Other	PLM None Detected
Analyst: Alex No Date Analyzed :	ble 01/23/2023	Homogenous			
1445911 28-CP-C	Ceiling Panel 2'x4'	White Fibrous	PLM 50% Cellulose PLM 35% Fiberglass	PLM 15% Other	PLM None Detected
Analyst: Alex No Date Analyzed :	ble 01/23/2023	Homogenous			
1445912 29-CP-A	Ceiling Panel 2'x4'	Gray Fibrous	PLM 25% Cellulose PLM 30% Fiberglass	PLM 45% Other	PLM None Detected
Analyst: Alex No Date Analyzed :	ble 01/23/2023	Homogenous			
1445913 29-CP-B	Ceiling Panel 2'x4'	Gray Fibrous	PLM 25% Cellulose PLM 30% Fiberglass	PLM 45% Other	PLM None Detected
Analyst: Alex No Date Analyzed :	ble 01/23/2023	Homogenous			
1445914 29-CP-C	Ceiling Panel 2'x4'	Gray Fibrous	PLM 25% Cellulose PLM 30% Fiberglass	PLM 45% Other	PLM None Detected
Analyst: Alex No	ble	Homogenous			



Date Analyzed: 01/23/2023

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Client Project: 188BS23004

Novi, Michigan 48377

Date Collected: 01/11/2023

Location: City of Kalamazoo

Date Received: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445915 30-CB-A	Cove Base	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	Alex Noble 01/23/2023	Homogenede			
1445915 30-CB-A	Adhesive	Yellow Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-2 Analyst: Date Analyzed:	Alex Noble 01/23/2023	-			
1445915 30-CB-A	Powdery Material	White Non-Fibrous	PLM 3% Cellulose PLM 2% Fiberglass	PLM 95% Other	PLM None Detected
Layer-3 Analyst: Date Analyzed :	Alex Noble 01/23/2023	Homogenous			
1445916 30-CB-B	Cove Base	Brown Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed:	Alex Noble 01/23/2023	Homogenous			
1445916 30-CB-B	Adhesive	Yellow Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-2 Analyst:	Alex Noble				





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328 E Stockbridge, Kalamazoo, MI 49001

ETL Job: 254184

Client Project: 188BS23004

Date Collected: 01/11/2023

Date Received: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445917 30-CB-C Layer-1 Analyst: Date Analyzed :	Cove Base Alex Noble 01/23/2023	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445917 30-CB-C Layer-2 Analyst: Date Analyzed :	Adhesive Alex Noble 01/23/2023	Yellow Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1445917 30-CB-C Layer-3 Analyst: Date Analyzed :	Powdery Material Alex Noble 01/23/2023	White Non-Fibrous Homogenous	PLM 2% Cellulose PLM Trace Fiberglass	PLM 98% Other	PLM None Detected
1445918 31-CB-A Layer-1 Analyst: Date Analyzed :	Cove Base Alex Noble 01/23/2023	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445918 31-CB-A Layer-2 Analyst: Date Analyzed :	Adhesive Alex Noble 01/23/2023	Tan Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1445918 31-CB-A Layer-3 Analyst: Date Analyzed :	Fibrous Material Alex Noble 01/23/2023	Gray Fibrous Homogenous	PLM 97% Cellulose	PLM 3% Other	PLM None Detected





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Novi, Michigan 48377

Location: City of Kalamazoo

328 E Stockbridge, Kalamazoo, MI 49001

ETL Job: 254184

Client Project: 188BS23004

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445919 31-CB-B Layer-1 Analyst: Date Analyzed :	Cove Base	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445919 31-CB-B Layer-2 Analyst: Date Analyzed :	Adhesive Alex Noble 01/23/2023	Tan Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1445919 31-CB-B Layer-3 Analyst: Date Analyzed :	Fibrous Material Alex Noble 01/23/2023	Gray Fibrous Homogenous	PLM 97% Cellulose	PLM 3% Other	PLM None Detected
1445920 31-CB-C Layer-1 Analyst: Date Analyzed :	Cove Base Alex Noble 01/23/2023	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445920 31-CB-C Layer-2 Analyst: Date Analyzed :	Adhesive Alex Noble 01/23/2023	Yellow Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1445920 31-CB-C Layer-3 Analyst: Date Analyzed :	Debris Alex Noble 01/23/2023	Gray/Brown Fibrous Non-Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected



Date Analyzed: 01/23/2023

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 254184

46555 Humboldt Dr. Suite 100

Client Project: 188BS23004

Novi, Michigan 48377

Date Collected: 01/11/2023

Location: City of Kalamazoo

Date Received: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445921 32-CB-A	Cove Base	Blue Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	Alex Noble 01/23/2023				
1445921 32-CB-A	Adhesive	Tan Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-2 Analyst: Date Analyzed:	Alex Noble 01/23/2023	Homogonous			
1445922 32-CB-B	Cove Base	Blue Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed:	Alex Noble 01/23/2023	Homogenous			
1445922 32-CB-B	Adhesive	Tan Non-Fibrous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-2 Analyst: Date Analyzed :	Alex Noble 01/23/2023	Homogenous			
1445922 32-CB-B	Fibrous Material	Tan Fibrous	PLM 96% Cellulose	PLM 4% Other	PLM None Detected
Layer-3 Analyst:	Alex Noble	Homogenous			





Polarized Light Microscopy Asbestos Analysis Report

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Client Project: 188BS23004

Novi, Michigan 48377

Date Collected: 01/11/2023 **Date Received**: 01/18/2023

Location: City of Kalamazoo

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445923 32-CB-C Layer-1 Analyst: Date Analyzed :		Blue Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445923 32-CB-C Layer-2 Analyst: Date Analyzed :		Tan Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1445923 32-CB-C Layer-3 Analyst: Date Analyzed :	Fibrous Material Alex Noble 01/23/2023	Tan Fibrous Homogenous	PLM 96% Cellulose	PLM 4% Other	PLM None Detected
1445924 33-CB-A Layer-1 Analyst: Date Analyzed :	Cove Base Alex Noble 01/23/2023	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445924 33-CB-A Layer-2 Analyst: Date Analyzed :	Adhesive Alex Noble 01/23/2023	Tan Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1445924 33-CB-A Layer-3 Analyst: Date Analyzed :		Beige Fibrous Homogenous	PLM 96% Cellulose	PLM 4% Other	PLM None Detected





Polarized Light Microscopy Asbestos Analysis Report

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ETL Job: 254184

46555 Humboldt Dr. Suite 100

Client Project: 188BS23004

Novi, Michigan 48377

Date Collected: 01/11/2023 **Date Received**: 01/18/2023

Location: City of Kalamazoo

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445925 33-CB-B Layer-1 Analyst: / Date Analyzed :	Cove Base Alex Noble 01/23/2023	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445925 33-CB-B Layer-2 Analyst: A Date Analyzed:	Adhesive Alex Noble 01/23/2023	Tan Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1445925 33-CB-B Layer-3 Analyst: A Date Analyzed:	Fibrous Material Alex Noble 01/23/2023	Beige Fibrous Homogenous	PLM 96% Cellulose	PLM 4% Other	PLM None Detected
1445926 33-CB-C Layer-1 Analyst: A Date Analyzed:	Cove Base Alex Noble 01/23/2023	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445926 33-CB-C Layer-2 Analyst: / Date Analyzed :	Adhesive Alex Noble 01/23/2023	Tan Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1445926 33-CB-C Layer-3 Analyst: A Date Analyzed:	Fibrous Material Alex Noble 01/23/2023	Beige Fibrous Homogenous	PLM 97% Cellulose	PLM 3% Other	PLM None Detected



Analyst: Alex Noble
Date Analyzed: 01/23/2023

Certificate of Analysis



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Novi, Michigan 48377

Location: City of Kalamazoo

328 E Stockbridge, Kalamazoo, MI 49001

ETL Job: 254184

Client Project: 188BS23004

1445927 Sink Undercoating Yellow Non-Fibrous Homogenous Analyst: Alex Noble Date Analyzed: 01/23/2023 1445928 Sink Undercoating Yellow Non-Fibrous Homogenous Analyst: Alex Noble Date Analyzed: 01/23/2023 1445929 Sink Undercoating Yellow Non-Fibrous Homogenous 1445929 Sink Undercoating Yellow Non-Fibrous Homogenous 1445929 Sink Undercoating Yellow Non-Fibrous Homogenous 1445929 Sink Undercoating O1/23/2023 1445929 Sink Undercoating Non-Fibrous Homogenous 1445929 Sink Undercoating Non-Fibrous Homogenous	Asbestos e Detected e Detected
34-SU-A Analyst: Alex Noble Date Analyzed: 01/23/2023 Yellow Non-Fibrous Homogenous Yellow Non-Fibrous Homogenous Yellow Non-Fibrous Homogenous PLM 3% Cellulose PLM 97% Other PLM None Non-Fibrous Homogenous PLM 3% Cellulose PLM 97% Other PLM None Non-Fibrous Homogenous PLM 3% Cellulose PLM 97% Other PLM None Non-Fibrous Homogenous PLM 97% Other PLM None Non-Fibrous Non-Fibrous Non-Fibrous Non-Fibrous Non-Fibrous Non-Homogenous Non-Homogenous	
Analyst: Alex Noble Date Analyzed: 01/23/2023 1445928 Sink Undercoating Yellow Non-Fibrous Homogenous Analyst: Alex Noble Date Analyzed: 01/23/2023 1445929 Sink Undercoating Yellow PLM 3% Cellulose PLM 97% Other PLM None Non-Fibrous Homogenous 1445929 Sink Undercoating Yellow Non-Fibrous Homogenous Analyst: Alex Noble Date Analyzed: 01/23/2023 1445930 Mastic Black PLM 4% Cellulose PLM 96% Other PLM None Non-Fibrous Non-Fibrous Non-Fibrous Non-Fibrous Non-Fibrous Non-Fibrous Non-Fibrous Non-Fibrous Non-Fibrous	Detected
34-SU-B Analyst: Alex Noble Date Analyzed: 01/23/2023 Yellow Non-Fibrous Homogenous Yellow Non-Fibrous Homogenous Yellow Non-Fibrous Homogenous PLM 3% Cellulose PLM 97% Other PLM None Non-Fibrous Homogenous PLM 97% Other PLM None PLM 97% Other PLM None PLM 97% Other PLM None Non-Fibrous Homogenous PLM 97% Other PLM None Non-Fibrous Homogenous PLM 97% Other PLM None PLM 97% Other PLM None Non-Fibrous Non-Fibrous Non-Fibrous Non-Homogenous	Detected
1445929 Sink Undercoating Yellow PLM 3% Cellulose PLM 97% Other PLM None Non-Fibrous Homogenous Analyst: Alex Noble Date Analyzed: 01/23/2023 Black PLM 4% Cellulose PLM 96% Other PLM None Non-Fibrous Non-Homogenous	
34-SU-C Non-Fibrous Homogenous Non-Fibrous Homogenous 1445930 Mastic Black Non-Fibrous Non-Fibrous Non-Fibrous Non-Fibrous Non-Fibrous Non-Fibrous Non-Homogenous	
Analyst: Alex Noble Date Analyzed: 01/23/2023 1445930 Mastic 35-BMA-A Non-Fibrous Non-Homogenous	e Detected
35-BMA-A Non-Fibrous Non-Homogenous	
Analyst: Alex Noble	e Detected
Date Analyzed: 01/23/2023	
35-BMA-B Non-Fibrous	e Detected
Analyst: Alex Noble Date Analyzed: 01/23/2023	
1445932 Mastic Black PLM 4% Cellulose PLM 96% Other PLM None 35-BMA-C Non-Fibrous Non-Homogenous	e Detected





Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 254184

46555 Humboldt Dr. Suite 100

Client Project: 188BS23004

Novi, Michigan 48377

Date Collected: 01/11/2023

Location: City of Kalamazoo

Date Received: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445933 36-FT-A Layer-1 Analyst: Date Analyzed :	9" Floor Tile Alex Noble	Pink Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 93% Other	PLM 4% Chrysotile
1445933 36-FT-A Layer-2 Analyst Date Analyzed :		Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445934 36-FT-B		Positive Stop			
Layer-1 Analyst: Date Analyzed: Layer Not Analy	01/23/2023				
1445934 36-FT-B	Mastic	Black Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Date Analyzed :		Homogenous			
1445935 36-FT-C		Positive Stop			
Layer-1 Analyst: Date Analyzed :					
Layer Not Analy	zed				
1445935 36-FT-C	Mastic	Black Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Date Analyzed :		Homogenous			





Polarized Light Microscopy Asbestos Analysis Report

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ETL Job: 254184

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Client Project: 188BS23004

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Date Collected: 01/11/2023

Date Received: 01/18/2023

Location: City of Kalamazoo

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445936 37-FT-A	9" Floor Tile	Green Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 94% Other	PLM 3% Chrysotile
Layer-1 Analyst: Date Analyzed :	Alex Noble 01/23/2023	Homogeneus			
1445936 37-FT-A	Mastic	Yellow Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Date Analyzed :	Alex Noble 01/23/2023	Homogenede			
1445936 37-FT-A	Mastic	Black Non-Fibrous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-3 Analyst: Date Analyzed :	Alex Noble 01/23/2023	Homogenous			
1445936 37-FT-A	Mastic	Gray Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-4 Analyst: Date Analyzed :	Alex Noble 01/23/2023	Homogenous			
1445936 37-FT-A	Mastic	Tan Non-Fibrous	PLM 3% Cellulose	PLM 94% Other	PLM None Detected
Layer-5 Analyst: Date Analyzed :	Alex Noble 01/23/2023	Homogenous	PLM 3% Fiberglass		





Polarized Light Microscopy Asbestos Analysis Report

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Client Project: 188BS23004

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Date Collected: 01/11/2023

Location: City of Kalamazoo

Date Received: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445937 37-FT-B		Positive Stop			
Layer-1 Analyst: A Date Analyzed :	lex Noble 01/23/2023				
Layer Not Analyze	d				
1445937 37-FT-B	Mastic	Yellow Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: A Date Analyzed :		Homogenous			
1445937 37-FT-B	Mastic	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-3 Analyst: A Date Analyzed :	lex Noble 01/23/2023	J			
1445938 37-FT-C		Positive Stop			
Layer-1 Analyst: A Date Analyzed :	lex Noble 01/23/2023				
Layer Not Analyze	d				
1445938 37-FT-C	Mastic	Gray Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: A Date Analyzed :	lex Noble 01/23/2023	Homogenous			
1445938 37-FT-C	Mastic	Tan Non-Fibrous Homogenous	PLM 3% Cellulose PLM 2% Fiberglass	PLM 95% Other	PLM None Detected
Layer-3 Analyst: A Date Analyzed :	lex Noble 01/23/2023	Homogenous			



Date Analyzed:

01/23/2023

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Date Collected: 01/11/2023 **Date Received**: 01/18/2023

Location: City of Kalamazoo

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445939 38-FT-A Layer-1 Analyst Date Analyzed :		White Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 93% Other	PLM 4% Chrysotile
1445939 38-FT-A Layer-2 Analyst Date Analyzed :		Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1445940 38-FT-B Layer-1 Analyst:	Alex Noble	Positive Stop			
Date Analyzed :	01/23/2023				
1445940 38-FT-B Layer-2 Analyst Date Analyzed :	Mastic Alex Noble	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
		D. W. (0)			
1445941 38-FT-C		Positive Stop			
Layer-1 Analyst Date Analyzed :					
Layer Not Analy	zed				
1445941 38-FT-C Layer-2 Analyst:	Mastic Alex Noble	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected





Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 254184

46555 Humboldt Dr. Suite 100

Client Project: 188BS23004

Novi, Michigan 48377

Date Collected: 01/11/2023

Location: City of Kalamazoo

Date Received: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445942 39-FT-A Layer-1 Analyst: Date Analyzed :		Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 95% Other	PLM 3% Chrysotile
1445942 39-FT-A Layer-2 Analyst Date Analyzed :		Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445943 39-FT-B		Positive Stop			
Layer-1 Analyst: Date Analyzed : Layer Not Analy	01/23/2023				
1445943 39-FT-B Layer-2 Analyst Date Analyzed :		Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445944 39-FT-C		Positive Stop			
Layer-1 Analyst: Date Analyzed :	01/23/2023				
Layer Not Analy 1445944 39-FT-C	zed Mastic	Black Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst Date Analyzed :		Homogenous			





Polarized Light Microscopy Asbestos Analysis Report

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ETL Job: 254184

46555 Humboldt Dr. Suite 100

Client Project: 188BS23004

Novi, Michigan 48377

Date Collected: 01/11/2023 **Date Received**: 01/18/2023

Location: City of Kalamazoo

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445945 40-FT-A Layer-1 Analyst: Date Analyzed :		White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1445945 40-FT-A Layer-2 Analyst: Date Analyzed :	Mastic Emmett Zainea	Brown Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445946 40-FT-B Layer-1 Analyst: Date Analyzed :		White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1445946 40-FT-B Layer-2 Analyst: Date Analyzed :		Brown Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445947 40-FT-C Layer-1 Analyst: Date Analyzed :		White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1445947 40-FT-C Layer-2 Analyst: Date Analyzed:		Brown Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected





Polarized Light Microscopy Asbestos Analysis Report

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ETL Job: 254184

46555 Humboldt Dr. Suite 100

Client Project: 188BS23004

Novi, Michigan 48377

Date Collected: 01/11/2023

Location: City of Kalamazoo

Date Received: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445948 41-FT-A	Floor Tile	Gray Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :		•			
1445948 41-FT-A	Mastic	Yellow Non-Fibrous		PLM 100% Other	PLM None Detected
Layer-2 Analyst: Date Analyzed :		Homogenous			
1445949 41-FT-B	Floor Tile	Gray Non-Fibrous		PLM 100% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :		Homogenous			
1445949 41-FT-B	Mastic	Brown Non-Fibrous		PLM 100% Other	PLM None Detected
Layer-2 Analyst: Date Analyzed :		Homogenous			
1445950 41-FT-C	Floor Tile	Gray Non-Fibrous		PLM 100% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :		Homogenous			
1445950 41-FT-C	Mastic	Brown Non-Fibrous		PLM 100% Other	PLM None Detected
Layer-2 Analyst: Date Analyzed :		Homogenous			





Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location: City of Kalamazoo

ETL Job: 254184

Client Project: 188BS23004

Date Collected: 01/11/2023 Date Received: 01/18/2023

328 E Stockbridge, Kalamazoo, MI 49001 Sample Description **Appearance** % Fibrous % Non-Fibrous % Asbestos 1445951 Yellow Pipe Insulation PLM 90% Fiberglass PLM None Detected 42-PI-A Fibrous PLM 10% Cellulose

Homogenous

Homogenous

Fibrous

Analyst: Emmett Zainea Date Analyzed : 01/23/2023

1445952 Yellow Pipe Insulation PLM 90% Fiberglass PLM None Detected 42-PI-B **Fibrous** PLM 10% Cellulose

Analyst: Emmett Zainea Date Analyzed: 01/23/2023

1445953 Yellow Pipe Insulation PLM 90% Fiberglass PLM None Detected

42-PI-C **Fibrous** PLM 10% Cellulose Homogenous Analyst: Emmett Zainea

Date Analyzed : 01/23/2023

1445954 Yellow Pipe Fitting PLM 90% Fiberglass PLM 10% Other PLM None Detected 43-PF-A

Homogenous Analyst: Emmett Zainea Date Analyzed: 01/23/2023

1445955 Yellow Pipe Fitting PLM 90% Fiberglass PLM 10% Other PLM None Detected

43-PF-B **Fibrous** Homogenous Analyst: Emmett Zainea

1445956 Yellow Pipe Fitting PLM 90% Fiberglass PLM 10% Other PLM None Detected 43-PF-C Fibrous Homogenous

Analyst: Emmett Zainea Date Analyzed: 01/23/2023

01/23/2023

Date Analyzed :



Date Analyzed:

01/23/2023

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 254184

46555 Humboldt Dr. Suite 100

Client Project: 188BS23004

Novi, Michigan 48377

Date Collected: 01/11/2023 **Date Received**: 01/18/2023

Location: City of Kalamazoo

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445957 44-RI-A	Rolled-in Insulation	Yellow Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Analyst: Emmett Date Analyzed :	Zainea 01/23/2023	Homogeneus			
1445958 44-RI-B Analyst: Emmett	Rolled-in Insulation	Yellow Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Date Analyzed :	01/23/2023				
1445959 44-RI-C	Rolled-in Insulation	Yellow Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Analyst: Emmett Date Analyzed :	Zainea 01/23/2023	ý ,			
1445960 45-RI-A	Rolled-in Insulation	Yellow Fibrous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Analyst: Emmett Date Analyzed :	Zainea 01/23/2023	Homogenous			
1445961 45-RI-B	Rolled-in Insulation	Yellow Fibrous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Analyst: Emmett Date Analyzed :	Zainea 01/23/2023	Homogenous			
1445962 45-RI-C	Rolled-in Insulation	Yellow Fibrous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Analyst: Emmett	Zainea	Homogenous			



Date Analyzed: 01/23/2023

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 254184

46555 Humboldt Dr. Suite 100

Client Project: 188BS23004

Novi, Michigan 48377

Date Collected: 01/11/2023 **Date Received**: 01/18/2023

Location: City of Kalamazoo

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445963 46-RI-A Analyst: Emmett	Rolled-in Insulation	Yellow Fibrous Non-Homogenous	PLM 90% Fiberglass PLM 10% Cellulose		PLM None Detected
Date Analyzed :	01/23/2023				
1445964 46-RI-B	Rolled-in Insulation	Yellow Fibrous Non-Homogenous	PLM 90% Fiberglass PLM 10% Cellulose		PLM None Detected
Analyst: Emmett Date Analyzed :	Zainea 01/23/2023				
1445965 46-RI-C	Rolled-in Insulation	Yellow Fibrous Non-Homogenous	PLM 90% Fiberglass PLM 10% Cellulose		PLM None Detected
Analyst: Emmett Date Analyzed :	Zainea 01/23/2023				
1445966 47-VD-A	Vibration Dampener	Beige Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Analyst: Emmett Date Analyzed :	Zainea 01/23/2023	Homogenous			
1445967 47-VD-B	Vibration Dampener	Beige Fibrous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Analyst: Emmett Date Analyzed :	Zainea 01/23/2023	Homogenous			
1445968 47-VD-C	Vibration Dampener	Beige Fibrous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Analyst: Emmett	Zainea	Homogenous			



Layer-2 Analyst: Emmett Zainea Date Analyzed: 01/23/2023

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 254184

46555 Humboldt Dr. Suite 100

Client Project: 188BS23004

Novi, Michigan 48377

Date Collected: 01/11/2023 **Date Received**: 01/18/2023

Location: City of Kalamazoo

328 E Stockbridge, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445969 48-HS-A	Heat Shield	Gray Fibrous		PLM 20% Other	PLM 80% Chrysotile
Analyst: Emmett Date Analyzed :		Homogenous			
1445970 48-HS-B		Positive Stop			
Analyst: Emmett Date Analyzed :					
Sample Not Ana	lyzed				
1445971 48-HS-C		Positive Stop			
Analyst: Emmett Date Analyzed :					
Sample Not Ana	lyzed				
1445972 49-CB-A	Cove Base	Black Non-Fibrous		PLM 100% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :		Homogenous			
1445972 49-CB-A	Adhesive	Brown Non-Fibrous		PLM 100% Other	PLM None Detected

Homogenous





Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 254184

46555 Humboldt Dr. Suite 100

Client Project: 188BS23004

Novi, Michigan 48377

Date Collected: 01/11/2023 **Date Received**: 01/18/2023

Location: City of Kalamazoo

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445973 49-CB-B Layer-1 Analyst: Date Analyzed :		Black Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1445973 49-CB-B Layer-2 Analyst: Date Analyzed :		Brown Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1445974 49-CB-C Layer-1 Analyst: Date Analyzed :	Cove Base Emmett Zainea 01/23/2023	Black Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1445974 49-CB-C Layer-2 Analyst: Date Analyzed :	Adhesive Emmett Zainea 01/23/2023	Brown Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1445975 50-EJ-A Layer-1 Analyst: Date Analyzed :		Black Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
1445975 50-EJ-A Layer-2 Analyst: Date Analyzed:		Gray Non-Fibrous Homogenous		PLM 97% Other	PLM 3% Chrysotile



Date Analyzed: 01/23/2023

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location: City of Kalamazoo

328 E Stockbridge, Kalamazoo, MI 49001

ETL Job: 254184

Client Project: 188BS23004

Date Collected: 01/11/2023

Date Received: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445976 50-EJ-B	Expansion Joint	Black Fibrous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :		Homogenous			
1445976 50-EJ-B		Positive Stop			
Layer-2 Analyst: Date Analyzed :					
Layer Not Analy:	zed				
1445977 50-EJ-C	Expansion Joint	Black Fibrous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :		Homogenous			
1445977 50-EJ-C		Positive Stop			
Layer-2 Analyst: Date Analyzed :					
Layer Not Analy	zed				
1445978 51-EC-A	Exterior Caulk	White Non-Fibrous		PLM 100% Other	PLM None Detected
Analyst: Emmett Date Analyzed :		Homogenous			
1445979 51-EC-B	Exterior Caulk	White Non-Fibrous		PLM 100% Other	PLM None Detected
Analyst: Emmett		Homogenous			



1445985

53-HS-B

Analyst: Emmett Zainea
Date Analyzed: 01/23/2023

Heat Shield

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

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Novi, Michigan 48377

Location: City of Kalamazoo

328 E Stockbridge, Kalamazoo, MI 49001

ETL Job: 254184

Client Project: 188BS23004

Date Collected: 01/11/2023 **Date Received**: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445980 51-EC-C	Exterior Caulk	White Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed: 01/23/2023		Homogenous			
1445981 52-WG-A	Window Glaze	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett Zainea Date Analyzed: 01/23/2023		nomegenede			
1445982 52-WG-B	Window Glaze	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett 2 Date Analyzed :	Zainea 01/23/2023	S .			
1445983 52-WG-C	Window Glaze	White Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: Emmett 2 Date Analyzed :	Zainea 01/23/2023	Homogenous			
1445984 53-HS-A	Heat Shield	White Fibrous	PLM 100% Fiberglass		PLM None Detected
Analyst: Emmett 2 Date Analyzed :	Zainea 01/23/2023	Homogenous			

PLM 100% Fiberglass

White

Fibrous Homogenous PLM None Detected



Analyst: Emmett Zainea
Date Analyzed: 01/23/2023

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

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Novi, Michigan 48377

Location: City of Kalamazoo

328 E Stockbridge, Kalamazoo, MI 49001

ETL Job: 254184

Client Project: 188BS23004

Date Collected: 01/11/2023

Date Received: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445986 53-HS-C	Heat Shield	White Fibrous	PLM 100% Fiberglass		PLM None Detected
Analyst: Emmett Date Analyzed :	Zainea 01/23/2023	Homogenous			
1445987 54-BM-A Analyst: Emmett Date Analyzed :	Brick Mortar Zainea 01/23/2023	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445988 54-BM-B Analyst: Emmett Date Analyzed :	Brick Mortar Zainea 01/23/2023	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445989	Brick Mortar	Gray	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
54-BM-C Analyst: Emmett Date Analyzed :	Zainea 01/23/2023	Non-Fibrous Homogenous			
1445990 55-PI-A Analyst: Emmett	Pipe Insulation Zainea	Gray Fibrous Non-Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Date Analyzed :	01/23/2023				
1445991 55-PI-B	Pipe Insulation	Gray Fibrous Non-Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected



Date Analyzed: 01/23/2023

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 254184

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Client Project: 188BS23004

Novi, Michigan 48377

Date Collected: 01/11/2023 **Date Received**: 01/18/2023

Location: City of Kalamazoo

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445992 55-PI-C	Pipe Insulation	Gray Fibrous Non-Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Analyst: Emmet Date Analyzed :		Non-Homogeneus			
1445993 56-TS-A Analyst: Emmet		Gray Fibrous Homogenous		PLM 40% Other	PLM 60% Chrysotile
Date Analyzed :	: 01/23/2023				
1445994 56-TS-B		Positive Stop			
Analyst: Emmet Date Analyzed :					
Sample Not Ana	alyzed				
1445995 56-TS-C		Positive Stop			
Analyst: Emmet Date Analyzed :					
Sample Not Ana	alyzed				
1445996 57-FT-A	Floor Tile	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst Date Analyzed :	:: Emmett Zainea :- 01/23/2023	nomogenous			
1445996 57-FT-A	Mastic	Black Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
Layer-2 Analyst	:: Emmett Zainea	Homogonous			



Analyst: Emmett Zainea Date Analyzed : 01/23/2023

Sample Not Analyzed

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location: City of Kalamazoo

328 E Stockbridge, Kalamazoo, MI 49001

ETL Job: 254184

Client Project: 188BS23004

Date Collected: 01/11/2023 **Date Received**: 01/18/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1445997 57-FT-B Layer-1 Analyst: Date Analyzed :	Floor Tile : Emmett Zainea 01/23/2023	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445997 57-FT-B Layer-2 Analyst: Date Analyzed :		Black Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1445998 57-FT-C Layer-1 Analyst: Date Analyzed :		Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1445998 57-FT-C Layer-2 Analyst: Date Analyzed :		Black Non-Fibrous Homogenous		PLM 100% Other	PLM None Detected
1445999 58-RC-A Analyst: Emmet Date Analyzed :		Brown Fibrous Non-Homogenous	PLM 15% Cellulose	PLM 80% Other	PLM 5% Chrysotile
1446000 58-RC-B		Positive Stop			



Analyst: Emmett Zainea Date Analyzed: 01/2

Sample Not Analyzed

01/23/2023

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location: City of Kalamazoo

328 E Stockbridge, Kalamazoo, MI 49001

ETL Job: 254184

Client Project: 188BS23004

Date Collected: 01/11/2023 **Date Received**: 01/18/2023

Sample Description **Appearance** % Fibrous % Non-Fibrous % Asbestos 1446001 Positive Stop 58-RC-C Analyst: Emmett Zainea Date Analyzed : 01/23/2023 Sample Not Analyzed 1446002 Positive Stop 58-RC-D Analyst: Emmett Zainea Date Analyzed : 01/23/2023 Sample Not Analyzed 1446003 Positive Stop 58-RC-E Analyst: Emmett Zainea Date Analyzed : 01/23/2023 Sample Not Analyzed 1446004 Positive Stop 58-RC-F Analyst: Emmett Zainea Date Analyzed: 01/23/2023 Sample Not Analyzed White 1446005 Fire Door PLM 90% Other PLM 10% Chrysotile 59-FD-A **Fibrous** Homogenous Analyst: Emmett Zainea Date Analyzed: 01/23/2023 1446006 Positive Stop 59-FD-B





Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 254184

46555 Humboldt Dr. Suite 100

Client Project: 188BS23004

Novi, Michigan 48377

Date Collected: 01/11/2023 Date Received: 01/18/2023

Location: City of Kalamazoo

328 E Stockbridge, Kalamazoo, MI 49001

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

1446007

60-FD-A

59-FD-C

Analyst: Emmett Zainea Date Analyzed: 01/23/2023

Sample Not Analyzed

1446008 Fire Door

Brown **Fibrous**

Homogenous

Sample Missing

PLM 100% Cellulose

PLM None Detected

Analyst: Emmett Zainea Date Analyzed: 01/23/2023

1446009

Fire Door

Brown **Fibrous**

PLM 100% Cellulose

PLM None Detected

60-FD-B

Homogenous

Analyst: Emmett Zainea Date Analyzed: 01/23/2023



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location: City of Kalamazoo

328 E Stockbridge, Kalamazoo, MI 49001

ETL Job: 254184

Client Project: 188BS23004

Date Collected: 01/11/2023

Date Received: 01/18/2023

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos

1446010 60-FD-C Sample Missing

Analyst: Emmett Zainea
Date Analyzed: 01/23/2023

Elm Wilini

Lab Supervisor/Other Signatory

Sample Not Analyzed

Analyst:

Alex Noble

alexendernole

Emmett Zainea

60

Orlando James brey to.

OJ Ivey

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")

Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples

Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples

EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials

EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

A % Asbestos result of "Trace" indicates that the analyzed material was found to contain less than 1% asbestos and would not be considered an Asbestos Containing Material (ACM)



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

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Bulk Asbestos Chain of Custody

L-11	×1 1
1)41	04
	14C

Client:	Atlas Toohnisel	Contact: Date Contact	Project CITY OF KALAMAZO	0 - 328 E	
	Atlas Technical Consultants	Contact: Rob Smith Phone: 248-669-5140	Location/name:		
Address:	A6555 Humbalds Dr. Cs	Earl	STOCKBRIDGE, KAL	AMAZOO, MI	
	46555 Humboldt Dr. Ste. 100 Novi, MI 48377	E-mail:	49001		
Please Provide	e Results: Email - F		Client Project #: 188BS23004		
1 10000 1 10 110	e results. Ciliali 1	ax verbar Other	Date Sampled: 1.11.2023		
Turnarou	nd Time (TAT): RUSH	H ☐ Same Day ☐ 24 hr ☐ 48 h	r 🗆 Standard (3-5 days) X Other <u>72 h</u>	ours	
		PLM Instructions (Check all that apply)			
PLM EPA60	00/R-93/116, 1993 (Standa	rd method)	X Stop at 1st Positive -		
	□ 400 Points* □ NYSD		Clearly mark Homogenous Group		
	Reduction* □ NYSDOH E				
V Communication	uilding Material (Dust, Wip		☐ Soil or Vermiculite Analysis*		
* Additional charg	ge and turnaround may be req	uired		7116	
Lab ID	Sample ID	Material Description	Sample Location	Quanti	
144586	1-CC-A	Concrete chip - Exterior concrete	EA-1	NA	
829	1-CC-B	Concrete chip - Exterior concrete	EA-2	NA	
830	1-CC-C	Concrete chip - Exterior concrete	EA-4	NA	
831	2-CC-A	Concrete chip - poured building foundatio	n FS-2	NA	
832	2-CC-B	Concrete chip - poured building foundatio	n FS-5	NA	
333	2-CC-C	Concrete chip - poured building foundation	n FS-15	NA	
834	3-CC-A	Concrete chip - raised pad for former boile	er FS-4	NA	
835	3-CC-B	Concrete chip - raised pad for former boile	er FS-4	NA	
836	3-CC-C	Concrete chip - raised pad for former boile	er FS-4	NA	
337	4-FL-A	Floor leveller, white	FS-2	NA	
338	4-FL-B	Floor leveller, white	FS-2	NA	
339	4-FL-C	Floor leveller, white	FS-2	NA	
			Date	Time	
elinquished (Name/O	organization): Andr	ew DeLodder / Atlas	1600	am/j	
eceived (Name/ETL)	Y.	Dena Lyanto	1-18-23 8:00	am	
mple Login (Name/E	ETL):	overla Broard	1-18-23 8:3	ami	
ereoscopical/Sample	Analysis (Name/ETL)	In the tes	1-23-23 2	0 / am(r	
sults (Name/ETL):	9	In Uni		,'0 / am/r	
VQC Review (Name	/ETL):	Weia E Peparte	1-23-23 3:15	am(
oint Count ALL PLAS	st Positive Stop; /joint compound samples if any la STER samples Trace to 3% asbeste PLES Trace to 1% asbestos conten		Remarks		

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

Bulk Asbestos Chain of Custody

TI Project #	2001	1011
- I L I Tojout II.	11	1 × 1 1

Lab ID	Sample ID	Material Description	Sample Location	Quantity
144581	40 5-FL-A	Floor leveller, grey	FS-2	NA
841	5-FL-B	Floor leveller, grey	FS-2	NA
842	5-FL-C	Floor leveller, grey	FS-2	NA
843	6-BM-A	Brick mortar - CMU block	FS-5	NA
844	6-BM-B	Brick mortar - CMU block	FS-9	NA
845	6-BM-C	Brick mortar - CMU block	FS-15	NA
846	7-BM-A	Brick mortar - brick wall	EA-1	NA
847	7-BM-B	Brick mortar - brick wall	EA-4	NA
848	7-BM-C	Brick mortar - brick wall	EA-4	NA
849	8-BM-A	Brick mortar - glazed ceramic brick, beige	FS-1	NA
850	8-BM-B	Brick mortar - glazed ceramic brick, beige	FS-2	NA
851	8-BM-C	Brick mortar - glazed ceramic brick, beige	FS-15	NA
852	9-EJ-A	Expansion joint- black paper between floor and exterior walls	FS-4	NA
853	9-EJ-B	Expansion joint- black paper between floor and exterior walls	FS-4	NA
854	9-EJ-C	Expansion joint- black paper between floor and exterior walls	FS-5	NA
855	10-WBS-A	Wallboard system	FS-2	NA
856	10-WBS-B	Wallboard system	FS-2	NA
857	10-WBS-C	Wallboard system	FS-15	NA
858	11-IC-A	Interior caulk - grey, between knee-wall and window frame	EA-1	NA
859	11-IC-B	Interior caulk - grey, between knee-wall and window frame	FS-1	NA
008	11-IC-C	Interior caulk - grey, between knee-wall and window frame	FS-1	NA
861	12-IC-A	Interior caulk -beige, brittle, on glazed brick	FS-1	NA
862	12-IC-B	Interior caulk -beige, brittle, on glazed brick	FS-2	NA
863	12-IC-C	Interior caulk -beige, brittle, on glazed brick	FS-15	NA
864	13-IC-A	Interior caulk - bight white, around sinks and toilets	FS-11	NA
865	13-IC-B	Interior caulk - bight white, around sinks and toilets	FS-12	NA
200	13-IC-C	Interior caulk - bight white, around sinks and toilets	FS-12	NA

ENVIRONMENTAL TESTING LABORATORIES, INC

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

Bulk Asbestos Chain of Custody

ETL Project #: 254184

Lab ID	Sample ID	Material Description	Sample Location	Quantity
14458	14-IC-A	Interior caulk - white, soft, around steel door frames	FS-5	NA
808	14-IC-B	Interior caulk - white, soft, around steel door frames	FS-10	NA
869	14-IC-C	Interior caulk - white, soft, around steel door frames	FS-10	NA
870	15-IC-A	Interior caulk - beige and brittle, between steel door frame and CMU block	FS-5	NA
871	15-IC-B	Interior caulk - beige and brittle, between steel door frame and CMU block	FS-5	NA
872	15-IC-C	Interior caulk - beige and brittle, between steel door frame and CMU block	FS-2	NA
273	16-IC-A	Interior caulk - beige, on wood trim around the snack shack	FS-2	NA
274	16-IC-B	Interior caulk - beige, on wood trim around the snack shack	FS-2	NA
875	16-IC-C	Interior caulk - beige, on wood trim around the snack shack	FS-2	NA
2710	17-IC-A	counter Interior caulk - greenish grey, on metal HVAC seams	FS-2	NA NA
877	17-IC-B	Interior caulk - greenish grey, on metal HVAC seams	FS-2	NA NA
878	17-IC-C	Interior caulk - greenish grey, on metal HVAC seams	FS-2	NA NA
879	18-IC-A	Interior caulk - off-white, on metal support poles in kitchen	FS-3	NA
880	18-IC-B	Interior caulk - off-white, on metal support poles in kitchen	FS-3	NA NA
281	18-IC-C	Interior caulk - off-white, on metal support poles in kitchen	FS-3	NA
287	19-CA-A	Construction adhesive - beige, under wallboard on glazed brick	FS-1	NA NA
882	19-CA-B	Construction adhesive - beige, under wallboard on glazed brick	FS-1	NA NA
2011	19-CA-C	Construction adhesive - beige, under wallboard on glazed brick	FS-2	NA NA
225	20-CA-A	Construction adhesive - beige, under kitchen wall panels	FS-3	NA NA
881	20-CA-B	Construction adhesive - beige, under kitchen wall panels	FS-3	
227	20-CA-C	Construction adhesive - beige, under kitchen wall panels		NA NA
001	200000000000000000000000000000000000000		FS-3	NA NA
280	21-CA-A	Construction adhesive - orange, seams of stainless steel panels	FS-3	NA NA
009	21-CA-B	Construction adhesive - orange, seams of stainless steel panels	FS-3	NA NA
090	21-CA-C	Construction adhesive - orange, seams of stainless steel panels	FS-3	NA
198	22-CA-A	Construction adhesive - around perimeter of sink base	FS-5	NA
892	22-CA-B	Construction adhesive - around perimeter of sink base	FS-5	NA
893	22-CA-C	Construction adhesive - around perimeter of sink base	FS-5	NA

ENVIRONMENTAL TESTING LABORATORIES, INC

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Bulk Asbestos Chain of Custody

ETL Project #: 254184

Lab ID	Sample ID	Material Description	Sample Location	Quantity
144580	14 23-CM-A	Carpet mastic - 18" brown carpet tiles, beige mastic	FS-2	NA
895	23-CM-B	Carpet mastic - 18" brown carpet tiles, beige mastic	FS-2	NA
896	23-CM-C	Carpet mastic - 18" brown carpet tiles, beige mastic	FS-2	NA
897	24-CM-A	Carpet mastic - beige under blue carpet	FS-13	NA
898	24-CM-B	Carpet mastic - beige under blue carpet	FS-13	NA
899	24-CM-C	Carpet mastic - beige under blue carpet	FS-14	NA
900	25-CM-A	Carpet mastic - beige under brown carpet	FS-16	NA
901	25-CM-B	Carpet mastic - beige under brown carpet	FS-16	NA
902	25-CM-C	Carpet mastic - beige under brown carpet	FS-17	NA
903	26-CP-A	Ceiling panel - 2'x4', Styrofoam with sprayed coating on top	FS-2	NA
904	26-CP-B	Ceiling panel - 2'x4', Styrofoam with sprayed coating on top	FS-13	NA
905	26-CP-C	Ceiling panel - 2'x4', Styrofoam with sprayed coating on top	FS-14	NA
906	27-CP-A	Ceiling panel - 2'x4', white, small pinhole and fissure	FS-13	NA
907	27-CP-B	Ceiling panel - 2'x4', white, small pinhole and fissure	FS-13	NA
908	27-CP-C	Ceiling panel - 2'x4', white, small pinhole and fissure	FS-13	NA
909	28-CP-A	Ceiling panel - 2'x4', white, large pinhole and fissure	FS-14	NA
910	28-CP-B	Ceiling panel - 2'x4', white, large pinhole and fissure	FS-14	NA
911	28-CP-C	Ceiling panel - 2'x4', white, large pinhole and fissure	FS-14	NA
912	29-CP-A	Ceiling panel - 2'x4' art deco pattern	FS-3	NA
913	29-CP-B	Ceiling panel - 2'x4' art deco pattern	FS-3	NA
914	29-CP-C	Ceiling panel - 2'x4' art deco pattern	FS-3	NA
915	30-CB-A	Cove base - 4" brown vinyl with adhesive	FS-2	NA
9110	30-CB-B	Cove base - 4" brown vinyl with adhesive	FS-2	NA
917	30-CB-C	Cove base - 4" brown vinyl with adhesive	FS-2	NA NA
918	31-CB-A	Cove base - 4" grey vinyl with adhesive	FS-3	NA
919	31-CB-B	Cove base - 4" grey vinyl with adhesive	FS-16	NA NA
920	31-CB-C	Cove base - 4" grey vinyl with adhesive	FS-17	NA NA

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

Bulk Asbestos Chain of Custody

ETL Project #: /

Lab ID	Sample ID	Material Description	Sample Location	Quantity
14459	2 \ 32-CB-A	Cove base - 4" blue vinyl with adhesive	FS-13	NA
922	32-CB-B	Cove base - 4" blue vinyl with adhesive	FS-13	NA
923	32-CB-C	Cove base - 4" blue vinyl with adhesive	FS-13	NA
924	33-CB-A	Cove base - 4" dark grey vinyl with adhesive	FS-14	NA
925	33-CB-B	Cove base - 4" dark grey vinyl with adhesive	FS-14	NA
926	33-CB-C	Cove base - 4" dark grey vinyl with adhesive	FS-14	NA
927	34-SU-A	Sink undercoating - yellowish white	FS-3	NA
928	34-SU-B	Sink undercoating - yellowish white	FS-3	NA
929	34-SU-C	Sink undercoating - yellowish white	FS-3	NA
930	35-BMA-A	Black mastic - exposed black mastic	FS-1	NA
931	35-BMA-B	Black mastic - exposed black mastic	FS-2	NA
932	35-BMA-C	Black mastic - exposed black mastic	FS-15	NA
933	36-FT-A	Floor tile - 9" pink with faint grey streaks, and mastic	FS-2	NA
934	36-FT-B	Floor tile - 9" pink with faint grey streaks, and mastic	FS-2	NA
935	36-FT-C	Floor tile - 9" pink with faint grey streaks, and mastic	FS-2	NA
936	37-FT-A	Floor tile - 9" green with faint grey streaks, and mastic	FS-2	NA
937	37-FT-B	Floor tile - 9" green with faint grey streaks, and mastic	FS-2	NA
938	37-FT-C	Floor tile - 9" green with faint grey streaks, and mastic	FS-2	NA
939	38-FT-A	Floor tile - 9" - off-white with faint grey streaks, and mastic	FS-2	NA
940	38-FT-B	Floor tile - 9" - off-white with faint grey streaks, and mastic	FS-6	NA
941	38-FT-C	Floor tile - 9" - off-white with faint grey streaks, and mastic	FS-7	NA
942	39-FT-A	Floor tile - 9" grey with white and black streaks, and mastic	FS-5	NA
943	39-FT-B	Floor tile - 9" grey with white and black streaks, and mastic	FS-5	NA
944	39-FT-C	Floor tile - 9" grey with white and black streaks, and mastic	FS-5	NA
945	40-FT-A	Floor tile - 12" off-white with grey streaks	FS-2	NA
946	40-FT-B	Floor tile - 12" off-white with grey streaks	FS-2	NA
947	40-FT-C	Floor tile - 12" off-white with grey streaks	FS-3	NA

ENVIRONMENTAL TESTING LABORATORIES, INC 38900 HURON RIVER DRIVE ROMULUS, MICHIGAN 48174

(734) 955-6600 Fax: (734) 992-2261

Bulk Asbestos Chain of Custody

ETL Project #: /

Lab ID	Sample ID	Material Description	Sample Location	Quantity
14459	41-FT-A	Floor tile - 12" mottled light grey, dark grey, and mastic	FS-11	NA
949	41-FT-B	Floor tile - 12" mottled light grey, dark grey, and mastic	FS-11	NA
950	41-FT-C	Floor tile - 12" mottled light grey, dark grey, and mastic	FS-12	NA
951	42-PI-A	Pipe insulation - paper wrapped fiberglass	FS-4	NA
952	42-PI-B	Pipe insulation - paper wrapped fiberglass	FS-4	NA
953	42-PI-C	Pipe insulation - paper wrapped fiberglass	FS-4	NA
954	43-PF-A	Pipe fittings - fiberglass with plastic cover	FS-4	NA
955	43-PF-B	Pipe fittings - fiberglass with plastic cover	FS-4	NA
956	43-PF-C	Pipe fittings - fiberglass with plastic cover	FS-4	NA
957	44-RI-A	Rolled-in insulation - fiberglass HVAC duct, wrapped in grey plastic	FS-2	NA
958	44-RI-B	Rolled-in insulation - fiberglass HVAC duct, wrapped in grey plastic	FS-14	NA
959	44-RI-C	Rolled-in insulation - fiberglass HVAC duct, wrapped in grey plastic	FS-16	NA
9100	45-RI-A	Rolled-in insulation - yellow fiberglass, no paper	FS-2	NA
9101	45-RI-B	Rolled-in insulation - yellow fiberglass, no paper	FS-2	NA
962	45-RI-C	Rolled-in insulation - yellow fiberglass, no paper	FS-2	NA
963	46-RI-A	Rolled-in insulation - foil wrapped HVAC duct	FS-2	NA
9104	46-RI-B	Rolled-in insulation - foil wrapped HVAC duct	FS-4	NA
965	46-RI-C	Rolled-in insulation - foil wrapped HVAC duct	FS-15	NA
91010	47-VD-A	Vibration dampener - beige canvas	FS-5	NA
9107	47-VD-B	Vibration dampener - beige canvas	FS-5	NA
968	47-VD-C	Vibration dampener - beige canvas	FS-5	NA
9109	48-HS-A	Heat shield - white, between panels on HVAC fan	FS-1	NA
970	48-HS-B	Heat shield - white, between panels on HVAC fan	FS-1	NA
971	48-HS-C	Heat shield - white, between panels on HVAC fan	FS-1	NA
972	49-CB-A	Cove base - 4" black vinyl with adhesive	FS-5	NA
973	49-CB-B	Cove base - 4" black vinyl with adhesive	FS-6	NA
974	49-CB-C	Cove base - 4" black vinyl with adhesive	FS-9	NA

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

Bulk Asbestos Chain of Custody

ETL Project #:

Lab ID	Sample ID	Material Description	Sample Location	Quantity
14459	175 50-EJ-A	Expansion joint - CMU block	EA-1	NA
976	50-EJ-B	Expansion joint - CMU block	EA-1	NA
977	50-EJ-C	Expansion joint - CMU block	EA-3	NA
978	51-EC-A	Exterior caulk - white, around door frames	EA-3	NA
979	51-EC-B	Exterior caulk - white, around door frames	EA-3	NA
980	51-EC-C	Exterior caulk - white, around door frames	EA-3	NA
981	52-WG-A	Window glaze - white	EA-4	NA
982	52-WG-B	Window glaze - white	EA-4	NA
983	52-WG-C	Window glaze - white	EA-4	NA
984	53-HS-A	Heat shield - fiberglass, in light fixture	EA-1	NA
985	53-HS-B	Heat shield - fiberglass, in light fixture	EA-4	NA
986	53-HS-C	Heat shield - fiberglass, in light fixture	EA-4	NA
987	54-BM-A	Brick mortar - around pipe penetrations	EA-1	NA
988	54-BM-B	Brick mortar - around pipe penetrations	EA-2	NA
989	54-BM-C	Brick mortar - around pipe penetrations	EA-3	NA
990	55-PI-A	Pipe insulation - grey goopy wrap	EA-1	NA
991	55-PI-B	Pipe insulation - grey goopy wrap	EA-1	NA
992	55-PI-C	Pipe insulation - grey goopy wrap	EA-1	NA
993	56-TS-A	Transite pipe, under foundation	FS-5	NA
994	56-TS-B	Transite pipe, under foundation	FS-5	NA
995	56-TS-C	Transite pipe, under foundation	F\$-5	NA
996	57-FT-A	Floor tile - 9" beige with red streaks	FS-2	NA
997	57-FT-B	Floor tile - 9" beige with red streaks	FS-2	NA
998	57-FT-C	Floor tile - 9" beige with red streaks	FS-2	NA
999)- 58-RC-A	Roofing core	EA-5 (LOWER ROOF)	NA
000	▶ 58-RC-B	Roofing core	EA-5 (LOWER ROOF)	NA
001	58-RC-C	Roofing core	EA-5 (LOWER ROOF)	NA

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

Bulk Asbestos Chain of Custody

ETL Project #:

Lab ID	Sample ID	Material Description	Sample Location	Quantity
144601	2 , 58-RC-D	Roofing core	EA-5 (UPPER ROOF)	NA
003	58-RC-E	Roofing core	EA-5 (UPPER ROOF)	NA
004	, 58-RC-F	Roofing core	EA-5 (UPPER ROOF)	NA
005	59-FD-A	Fire door - metal door with white interior lining	EA-1	NA
0010	59-FD-B	Fire door - metal door with white interior lining	EA-1	NA
007	59-FD-C	Fire door - metal door with white interior lining	EA-1	NA
2008	60-FD-A	Fire door - metal door with corrugated paper lining	EA-3	NA
009	60-FD-B	Fire door - metal door with corrugated paper lining	EA-3	NA
010	60-FD-C	Fire door - metal door with corrugated paper lining	EA-3	NA
	NA	NA	NA NA	NA
	NA	NA	NA NA	NA
	NA	NA	NA NA	NA
	NA	NA	NA NA	NA
	NA	NA	NA NA	NA
	NA	NA	NA NA	NA
	NA	NA	NA NA	NA
	NA	NA	NA	NA
	NA	NA	NA	NA
	NA	NA	NA	NA
	NA	NA	NA	NA
	NA	NA	NA	NA
	NA	NA	NA	NA
	NA	NA	NA	NA
	NA	NA	NA	NA
	NA	NA	NA	NA
	NA	NA	NA	NA
	NA	NA NA	NA	NA



ATTACHMENT B
PHOTOGRAPHS



Street view of the commercial property at 328 E Stockbridge

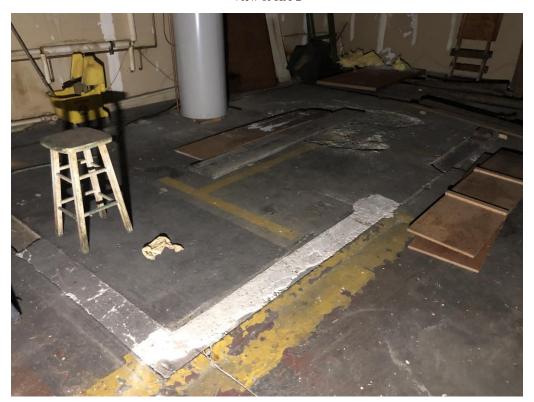


View of HA-1



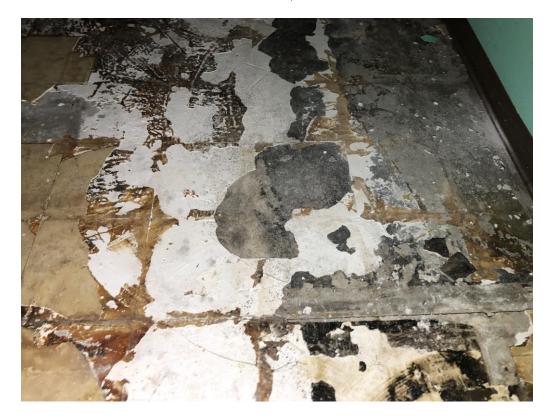


View of HA-2



View of HA-3





View of HA-4



View of HA-5



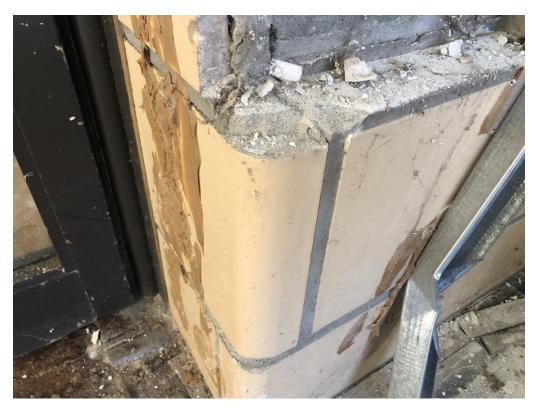


View of HA-6



View of HA-7



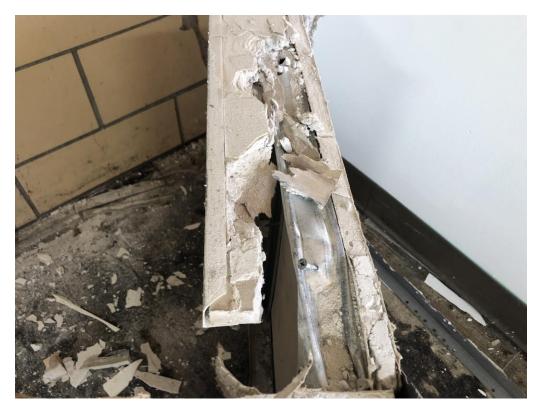


View of HA-8



View of HA-9





View of HA-10



View of HA-11



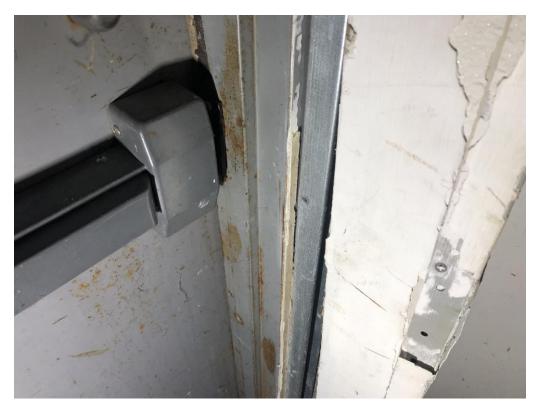


View of HA-12

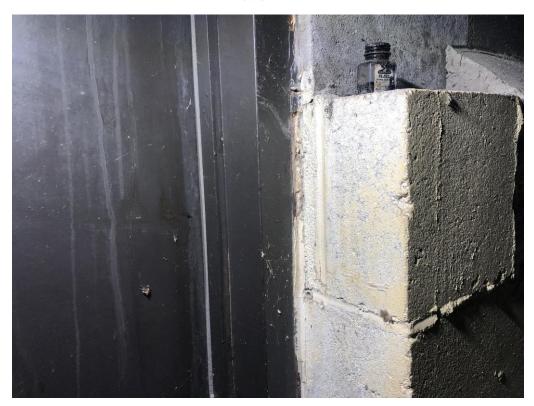


View of HA-13





View of HA-14

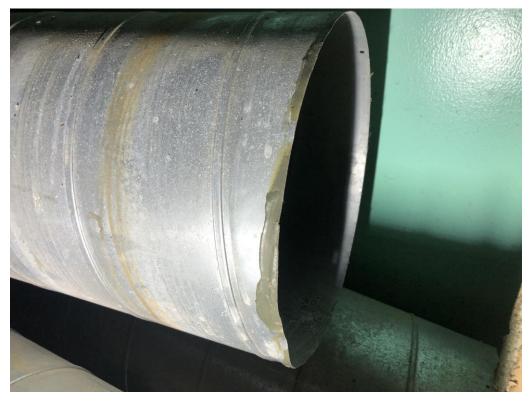


View of HA-15





View of HA-16



View of HA-17





View of HA-18

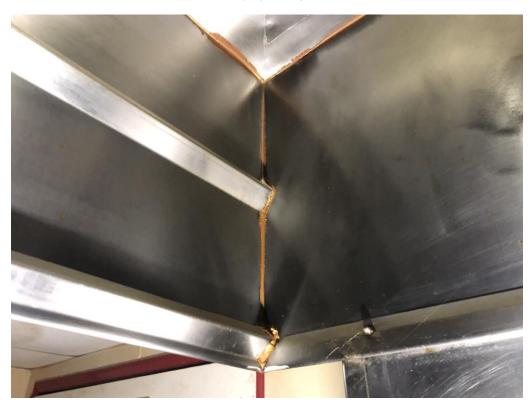


View of HA-19



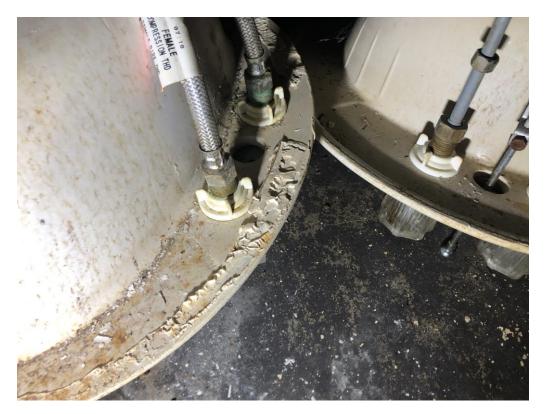


View of HA-20

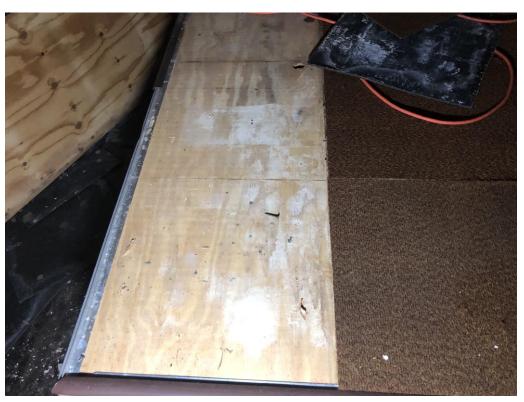


View of HA-21





View of HA-22



View of HA-23





View of HA-24



View of HA-25





View of HA-26



View of HA-27





View of HA-28



View of HA-29





View of HA-30



View of HA-31





View of HA-32



View of HA-33





View of HA-34



View of HA-35





View of HA-36



View of HA-37





View of HA-38



View of HA-39





View of HA-40



View of HA-41



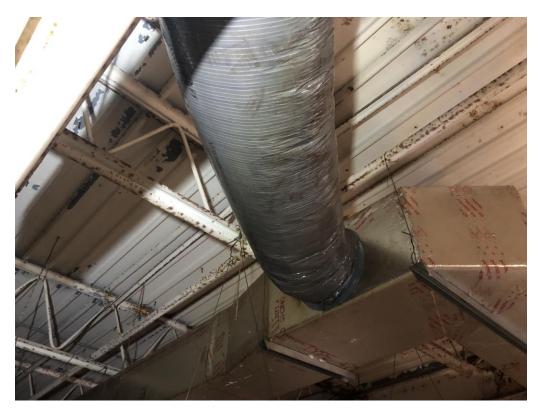


View of HA-42

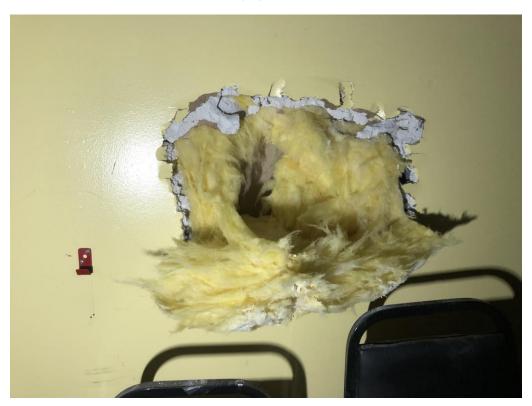


View of HA-43





View of HA-44



View of HA-45





View of HA-46



View of HA-47





View of HA-48



View of HA-49





View of HA-50



View of HA-51





View of HA-52

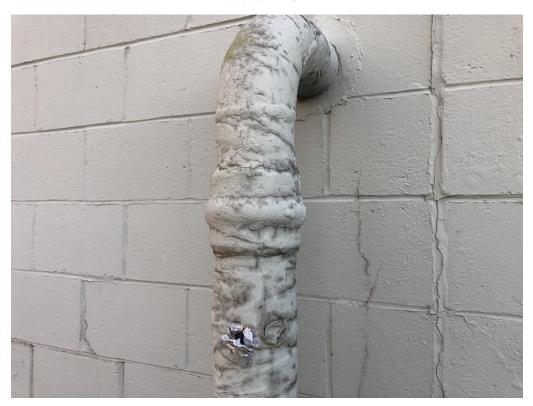


View of HA-53





View of HA-54



View of HA-55





View of HA-56



View of HA-57





View of HA-58



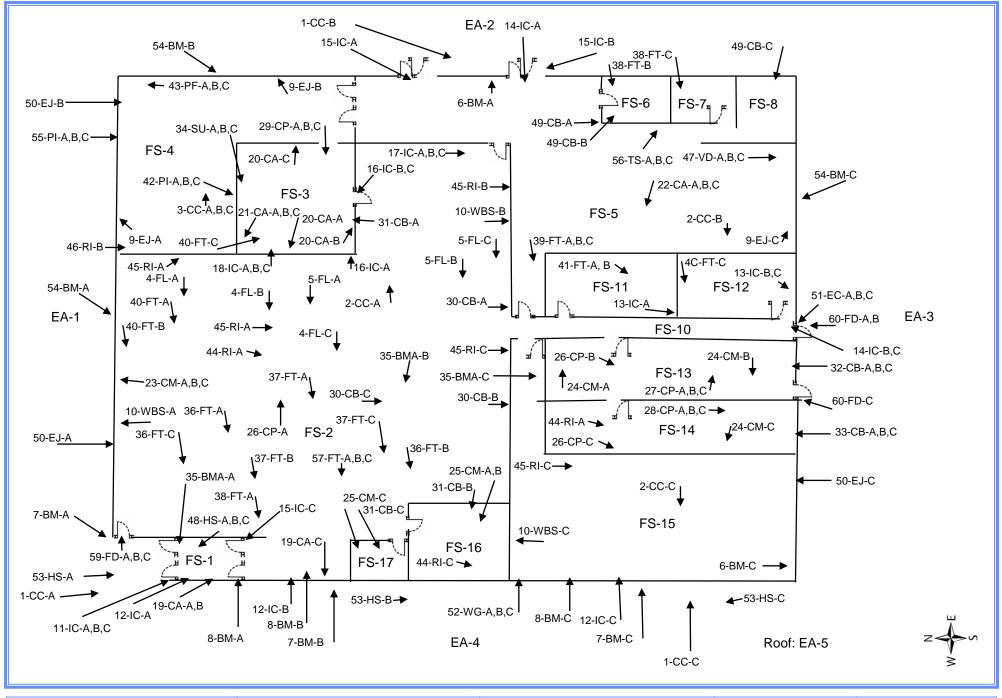
View of HA-59





View of HA-60

ATTACHMENT C FUNCTIONAL SPACE MAPS



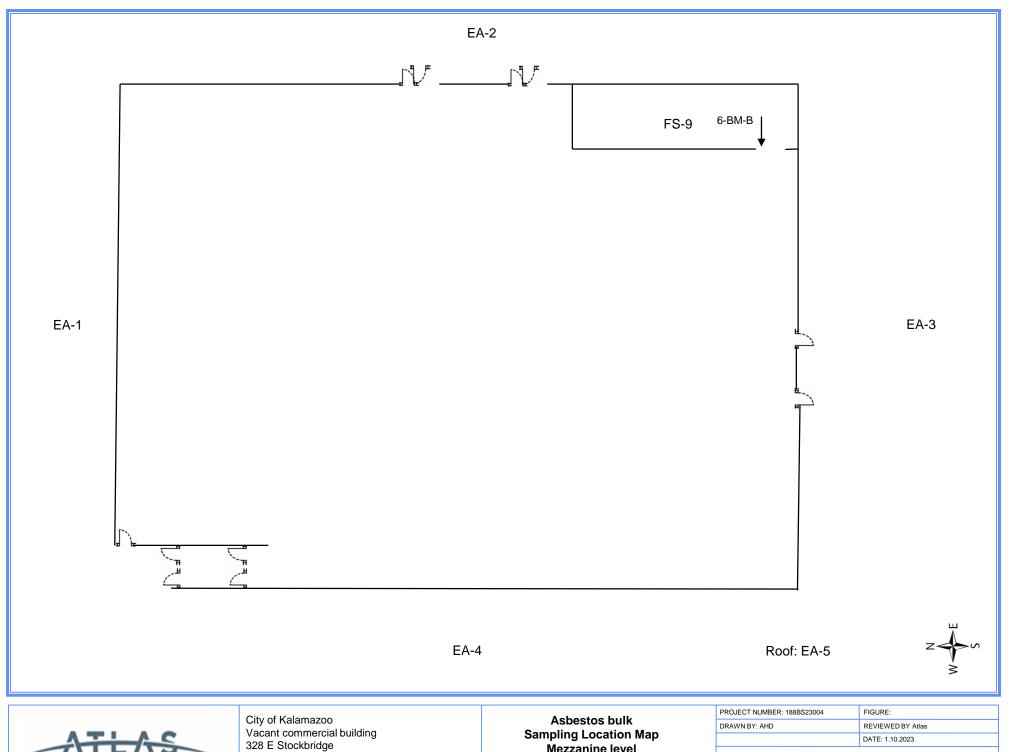


City of Kalamazoo Vacant commercial building 328 E Stockbridge Kalamazoo, MI 49001

Asbestos bulk
Sampling Location Map
Ground floor

PROJECT NUMBER: 188BS23004	FIGURE:
DRAWN BY: AHD	REVIEWED BY Atlas
	DATE: 1.10.2023
46555 Humboldt	Drive, Suite 100

46555 Humboldt Drive, Suite 100 Novi, Michigan 48377 Ph: (248) 669-5140 ~ Fax: (248) 669-5147

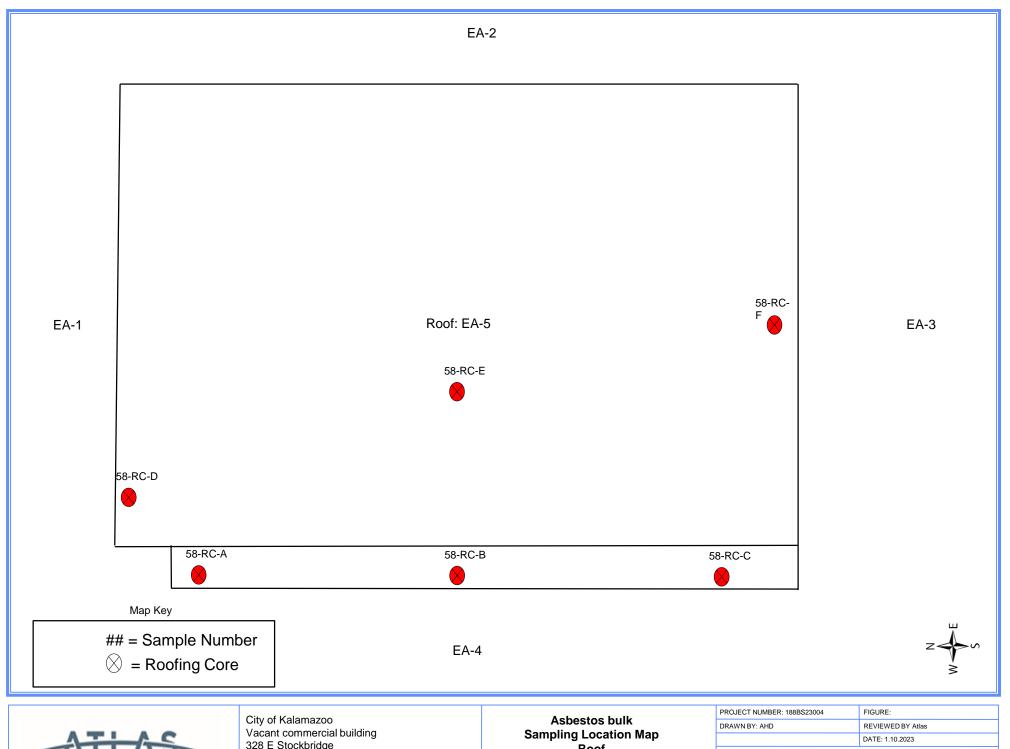


Kalamazoo, MI 49001

Mezzanine level

ATLAS

46555 Humboldt Drive, Suite 100 Novi, Michigan 48377 Ph: (248) 669-5140 ~ Fax: (248) 669-5147





328 E Stockbridge Kalamazoo, MI 49001 Roof

DRAWN BY: AHD REVIEWED BY Atlas DATE: 1.10,2023	PROJECT NUMBER: 188BS23004	FIGURE:
DATE: 1.10.2023	DRAWN BY: AHD	REVIEWED BY Atlas
		DATE: 1.10.2023

46555 Humboldt Drive, Suite 100 Novi, Michigan 48377 Ph: (248) 669-5140 ~ Fax: (248) 669-5147



Phase II Environmental Site Assessment (ESA) Summary

Asbestos Abatement & Demolition of 322 AKA 328 E Stockbridge Ave (Bingo Hall)

BID REFERENCE# 91240-021.0



August 5, 2021 Project No. 210750

Paul "P.J." Thuringer
Development Project Coordinator
City of Kalamazoo
Community Planning and Economic Development
245 West South Street
Kalamazoo, MI 49007

Phase II Environmental Site Assessment (ESA) Summary 322 East Stockbridge Avenue, City of Kalamazoo, Kalamazoo County, Michigan (Parcel ID Number 06-22-460-001)

Dear P.J.:

This letter report has been prepared to summarize the Phase II ESA conducted on 322 East Stockbridge Avenue, City of Kalamazoo, Kalamazoo County, Michigan (the Site) Parcel No. 06-22-460-001. A Location Map is provided as Figure 1.

Background

Fishbeck conducted a Phase I ESA on the Site dated May 24, 2021. The Phase I ESA identified the following Recognized Environmental Condition (REC):

Portage Creek sediments are known to be contaminated with polychlorinated biphenyls (PCBs) originating
from the Allied Paper/Portage Creek/Kalamazoo River Superfund Site. Baseline Environmental Assessments
(BEAs) reviewed for properties also located in the Portage Creek floodplain identified PCB-impacted soils in
the creek itself and in the floodplains. Therefore, PCBs may be present on the Site in the floodplain soils.

This report documents the findings of the Phase II ESA investigation.

Phase II ESA Investigation

The scope of the Phase II ESA included the completion of three soil borings on the Site within the Portage Creek floodplain. On July 21, 2021, three soil samples (SS-01 through SS-03) were collected at the Site. The borings were extended to a depth of approximately 1 foot below the ground surface (bgs) using a stainless-steel hand auger, which was decontaminated prior to each sample location. During the completion of the borings, soils were described by a Fishbeck geologist. The soil sample locations are shown on Figure 2.

The soil samples were collected directly into laboratory-prepared bottles, stored on ice in an insulated cooler, sealed, and transported under chain-of-custody documentation to ALS Group, USA, Holland, Michigan, for laboratory analysis of PCBs.

Discussion of Results

The soils encountered during the Phase II ESA activities generally consisted of medium- to fine-grained sand with gravel.

PCBs were not detected at concentrations exceeding laboratory reporting limits or Michigan Department of Environment, Great Lakes, and Energy (EGLE) Part 201 Generic Residential Cleanup Criteria (GRCC) in any of the samples.

The laboratory data sheets showing the analytical results are included in Attachment 1, and the soil data is summarized in Table 1.

Conclusions

The Phase II ESA included the collection of three soil samples to address the REC identified during the May 2021 Phase I ESA. The soil samples did not identify any constituents at concentrations exceeding laboratory reporting limits or EGLE Part 201 GRCC. Therefore, based on the Phase II ESA investigation, the Site is not a *facility*. The completion of a Baseline Environmental Assessment for the Site is not warranted, and no further actions are required at this time.

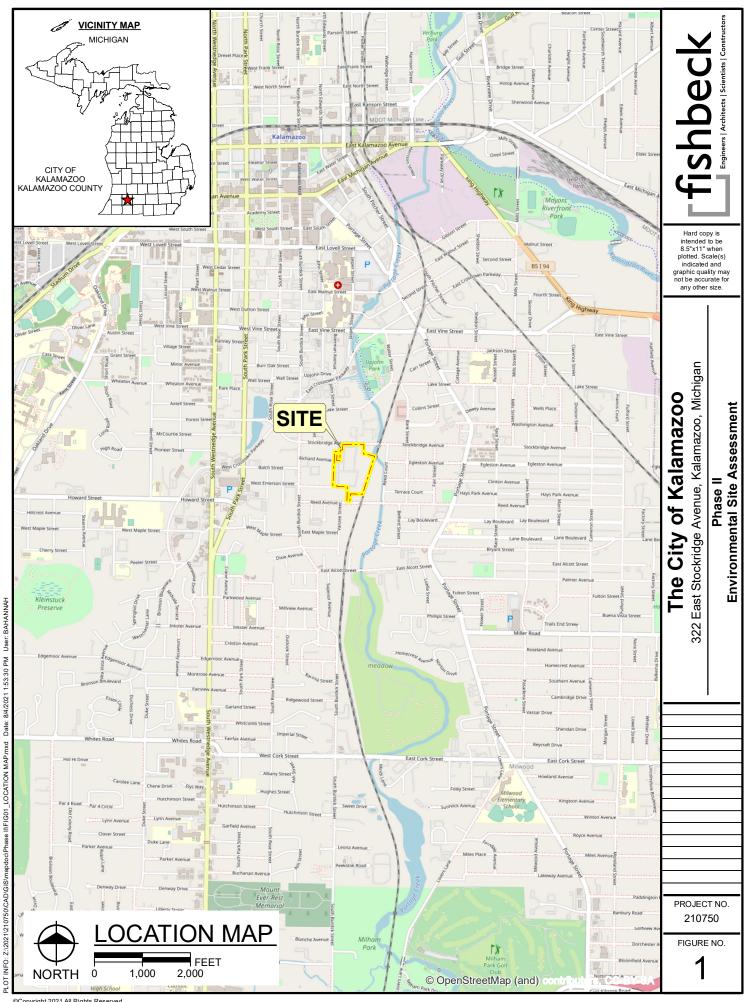
If you have any questions or require additional information, please contact me at 269.544.6948 or email tcampbell@fishbeck.com.

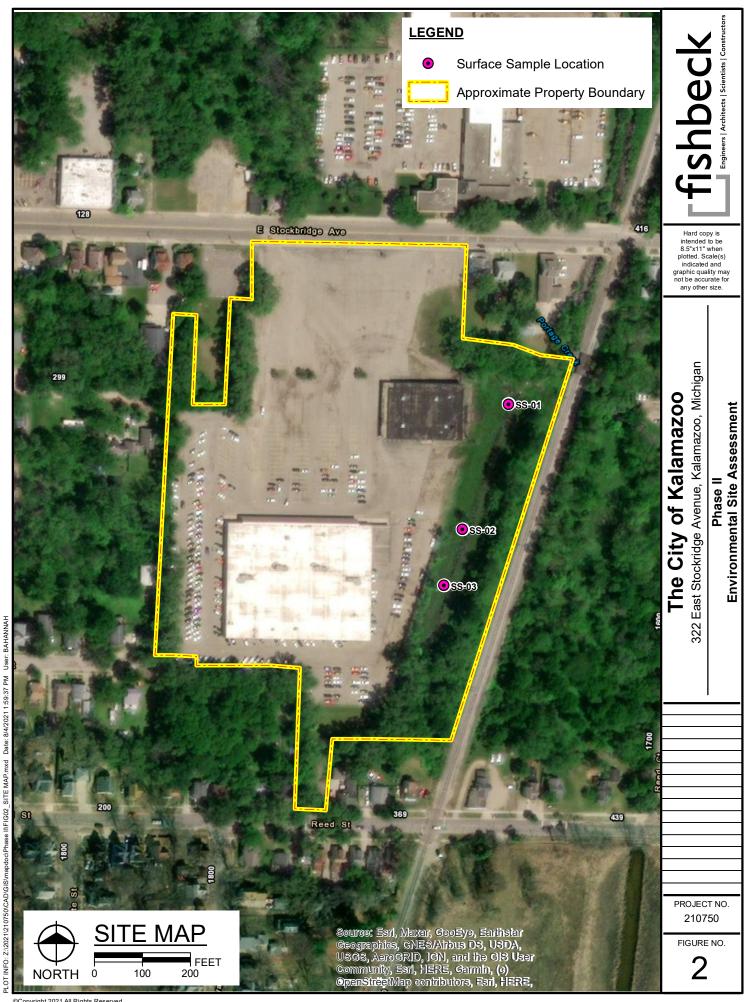
Sincerely,

Todd Campbell, CPG Senior Geologist

Attachments By email

Figures





Tables

Table 1 - Soil Data Summary

Phase II Environmental Site Assessment

322 East Stockbridge Avenue

August 2021

August 2021		_									ī			
Sample Location:		21-07-SS-01	21-07-SS-02	21-07-SS-03	Statewide					Finite VSIC	Finite VSIC			
Depth Interval (ft):		(1)	(0.5-1)	(1)	Default	Drinking Water	GSIP	Soil Volatilization to	Infinite Source		for 2 Meter	Particulate	Direct	Soil Saturation
Investigative/Field Duplicate/QC:		Investigative	Investigative	Investigative	Background	Protection	Criteria ⁽¹⁾	Indoor Air Inhalation	VSIC (1)	Source	Source	Soil Inhalation	Contact	Concentration SL ⁽¹⁾
Laboratory ID:		21071728-01	21071728-02	21071728-03		Criteria ⁽¹⁾	Criteria	Criteria ⁽¹⁾	VSIC			Criteria ⁽¹⁾	Criteria ⁽¹⁾	
Collection Date:		07/21/21	07/21/21	07/21/21	Levels (1) Criteria					Thickness ⁽¹⁾	Thickness (1)			
Polychlorinated Biphenyls	CAS Number													
PCB 1016	12674-11-2	72 U	83 U	93 U										
PCB 1221	11104-28-2	72 U	83 U	93 U										
PCB 1232	11141-16-5	72 U	83 U	93 U										
PCB 1242	53469-21-9	72 U	83 U	93 U										
PCB 1248	12672-29-6	72 U	83 U	93 U										
PCB 1254	11097-69-1	72 U	83 U	93 U										
PCB 1260	11096-82-5	72 U	83 U	93 U										
Total PCBs (J)	1336-36-3	72 U	83 U	93 U	NA	NLL	NLL	3.00E+06	2.40E+05	7.90E+06	7.90E+06	5.20E+06	(T)	NA
Moisture (%)		14.0	20.0	28.0										

Results expressed in µg/Kg dry weight.

Bolded values exceed Statewide Default Background Level and an applicable criterion or screening level.

<u>Underlined</u> parameters are classified as Polynuclear Aromatic Compounds.

Data Qualifiers:

U Not detected

Footnotes/Abbreviations:

(1) Part 201 Residential Soil Generic Cleanup Criteria and Screening Levels/Part 213 Risk-based Screening Levels, December 30, 2013 (GSI Criteria Updated June 25, 2018).

(T) Refer to federal Toxic Substances Control Act (TSCA), 40 CFR 761 Subparts D and G, to determine applicability of TSCA cleanup standards.

GSIP groundwater surface water interface protection

NA not available

NLL Not likely to leach under most soil conditions.

SL screening level

VSIC volatile soil inhalation criteria

Z:\2021\210750\WORK\Rept\Phase II ESA\TBL01_DataSummary-Soil_2020_1102.xlsx

Attachment 1



29-Jul-2021

Todd Campbell Fishbeck, Inc. 1515 Arboretum Dr SE Grand Rapids, MI 49546

Re: City of Kalamazoo 322 East Stockbridge Phase II Work Order: 21071728

Dear Todd,

ALS Environmental received 3 samples on 21-Jul-2021 02:47 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Jodi Blouw

Jodi Blouw

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

ALS Group, USA

Date: 29-Jul-21

Client: Fishbeck, Inc.

Project: City of Kalamazoo 322 East Stockbridge Phase II Work Order Sample Summary

Work Order: 21071728

Lab Samp ID C	Client Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received	Hold
21071728-01 C	COK-21-07-SS-01 (1') I	Soil		7/21/2021 11:40	7/21/2021 14:47	
21071728-02 C	COK-21-07-SS-02 (0.5-1') I	Soil		7/21/2021 11:55	7/21/2021 14:47	
21071728-03 C	COK-21-07-SS-03 (1') I	Soil		7/21/2021 12:35	7/21/2021 14:47	

ALS Group, USA

Date: 29-Jul-21

Client: Fishbeck, Inc.

QUALIFIERS,

Project: City of Kalamazoo 322 East Stockbridge Phase II

West Only 10 21071739

WorkOrder: 21071728

Qualifier Description Value exceeds Regulatory Limit ** Estimated Value a Analyte is non-accredited B Analyte detected in the associated Method Blank above the Reporting Limit Е Value above quantitation range Н Analyzed outside of Holding Time Hr BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated. J Analyte is present at an estimated concentration between the MDL and Report Limit ND Not Detected at the Reporting Limit O Sample amount is > 4 times amount spiked Dual Column results percent difference > 40% R RPD above laboratory control limit S Spike Recovery outside laboratory control limits U Analyzed but not detected above the MDL X Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level. **Acronym** Description DUP Method Duplicate LCS Laboratory Control Sample LCSD Laboratory Control Sample Duplicate LOD Limit of Detection (see MDL) LOO Limit of Quantitation (see PQL) MBLK Method Blank MDL Method Detection Limit MS Matrix Spike MSD Matrix Spike Duplicate POL Practical Quantitation Limit RPD Relative Percent Difference TDL Target Detection Limit **TNTC** Too Numerous To Count APHA Standard Methods A D ASTM

Units Reported Description

EPA

Е

SW

% of sample Percent of Sample

μg/Kg-dry Micrograms per Kilogram Dry Weight

SW-846 Update III

Date: 29-Jul-21

Case Narrative

Client: Fishbeck, Inc.

Project: City of Kalamazoo 322 East Stockbridge Phase II

Work Order: 21071728

Samples for the above noted Work Order were received on 07/21/2021. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Extractable Organics:

No deviations or anomalies were noted.

Wet Chemistry:

Batch R322810, Method SW3550C, Sample 21071728-01A DUP: The RPD between the sample and its duplicate was out of control. The corresponding sample result should be considered estimated for this analyte.

No other deviations or anomalies were noted.

ALS Group, USA

Client: Fishbeck, Inc.

Project:City of Kalamazoo 322 East Stockbridge Phase IIWork Order: 21071728Sample ID:COK-21-07-SS-01 (1') ILab ID: 21071728-01

Collection Date: 7/21/2021 11:40 AM Matrix: SOIL

Analyses	Result Q	ual MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: SW8082		Prep: SW354	6 / 7/27/21	Analyst: RM
Aroclor 1016	U	25	72	μg/Kg-dry	1	7/28/2021 16:46
Aroclor 1221	U	25	72	μg/Kg-dry	1	7/28/2021 16:46
Aroclor 1232	U	25	72	μg/Kg-dry	1	7/28/2021 16:46
Aroclor 1242	U	25	72	μg/Kg-dry	1	7/28/2021 16:46
Aroclor 1248	U	25	72	μg/Kg-dry	1	7/28/2021 16:46
Aroclor 1254	U	20	72	μg/Kg-dry	1	7/28/2021 16:46
Aroclor 1260	U	20	72	μg/Kg-dry	1	7/28/2021 16:46
Surr: Decachlorobiphenyl	75.3		40-140	%REC	1	7/28/2021 16:46
Surr: Tetrachloro-m-xylene	73.5		45-124	%REC	1	7/28/2021 16:46
MOISTURE		Method: SW3550C				Analyst: ALG
Moisture	14	0.10	0.10	% of sample	1	7/26/2021 10:12

Date: 29-Jul-21

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Client: Fishbeck, Inc.

Project: City of Kalamazoo 322 East Stockbridge Phase II Work Order: 21071728

Sample ID: COK-21-07-SS-02 (0.5-1') I Lab ID: 21071728-02

Collection Date: 7/21/2021 11:55 AM Matrix: SOIL

Analyses	Result Q	Qual MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: SW8082		Prep: SW354	6 / 7/27/21	Analyst: RM
Aroclor 1016	U	29	83	μg/Kg-dry	1	7/28/2021 17:00
Aroclor 1221	U	29	83	μg/Kg-dry	1	7/28/2021 17:00
Aroclor 1232	U	29	83	μg/Kg-dry	1	7/28/2021 17:00
Aroclor 1242	U	29	83	μg/Kg-dry	1	7/28/2021 17:00
Aroclor 1248	U	29	83	μg/Kg-dry	1	7/28/2021 17:00
Aroclor 1254	U	23	83	μg/Kg-dry	1	7/28/2021 17:00
Aroclor 1260	U	23	83	μg/Kg-dry	1	7/28/2021 17:00
Surr: Decachlorobiphenyl	57.5		40-140	%REC	1	7/28/2021 17:00
Surr: Tetrachloro-m-xylene	67.6		45-124	%REC	1	7/28/2021 17:00
MOISTURE		Method: SW3550C				Analyst: CDG
Moisture	20	0.10	0.10	% of sample	1	7/23/2021 15:23

Date: 29-Jul-21

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Client: Fishbeck, Inc.

Project:City of Kalamazoo 322 East Stockbridge Phase IIWork Order: 21071728Sample ID:COK-21-07-SS-03 (1') ILab ID: 21071728-03

Collection Date: 7/21/2021 12:35 PM Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Meth	od: SW8082		Prep: SW354	16 / 7/27/21	Analyst: RM
Aroclor 1016	U		32	93	μg/Kg-dry	1	7/28/2021 17:14
Aroclor 1221	U		32	93	μg/Kg-dry	1	7/28/2021 17:14
Aroclor 1232	U		32	93	μg/Kg-dry	1	7/28/2021 17:14
Aroclor 1242	U		32	93	μg/Kg-dry	1	7/28/2021 17:14
Aroclor 1248	U		32	93	μg/Kg-dry	1	7/28/2021 17:14
Aroclor 1254	U		26	93	μg/Kg-dry	1	7/28/2021 17:14
Aroclor 1260	U		26	93	μg/Kg-dry	1	7/28/2021 17:14
Surr: Decachlorobiphenyl	84.0			40-140	%REC	1	7/28/2021 17:14
Surr: Tetrachloro-m-xylene	92.3			45-124	%REC	1	7/28/2021 17:14
MOISTURE		Meth	od: SW3550C				Analyst: CDG
Moisture	28		0.10	0.10	% of sample	1	7/23/2021 15:23

Date: 29-Jul-21

Note: See Qualifiers page for a list of qualifiers and their definitions.

Date: 29-Jul-21

QC BATCH REPORT

Client: Fishbeck, Inc. Work Order: 21071728

Project: City of Kalamazoo 322 East Stockbridge Phase II

Batch ID: 180910 Instrument ID GC14 Method: SW8082 **MBLK** Sample ID: PBLKS1-180910-180910 Units: µg/Kg Analysis Date: 7/28/2021 10:32 AM Client ID: Prep Date: 7/27/2021 Run ID: GC14_210728A SeqNo: 7616239 DF: 1 SPK Ref RPD Ref **RPD** Control Value Limit Value Limit Analyte Result MDL PQL SPK Val %REC %RPD Qual Aroclor 1016 U 23 67 Aroclor 1221 U 23 67 Aroclor 1232 U 23 67 Aroclor 1242 U 23 67 Aroclor 1248 U 23 67 Aroclor 1254 U 67 19 Aroclor 1260 U 19 67 Surr: Decachlorobiphenyl 32.55 0 0 33.3 0 97.7 40-140 0 Surr: Tetrachloro-m-xylene 0 30.72 0 0 33.3 0 92.2 45-124 LCS Sample ID: PLCSS1-180910-180910 Units: µg/Kg Analysis Date: 7/28/2021 10:45 AM Client ID: Run ID: GC14_210728A SeqNo: 7616240 Prep Date: 7/27/2021 DF: 1 SPK Ref RPD Ref **RPD** Control Value Limit Value Limit Analyte MDL PQL SPK Val %REC %RPD Qual Result Aroclor 1016 875.1 23 67 833 0 105 50-130 0 Aroclor 1260 847.4 19 67 833 0 102 50-130 0 Surr: Decachlorobiphenyl 0 0 0 35.6 0 33.3 107 40-140 Surr: Tetrachloro-m-xylene 0 32.52 0 0 33.3 0 97.6 45-124

MS S	ample ID: 21071881-01	A MS			Uı	nits: µg/K	g	Analysis	Date:	7/28/2021	10:59 AM
Client ID:		Run ID: GC1	Seq	No: 7616	241	Prep Date: 7/27/2	DF: 1				
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPI	RPD Limit	Qual
Aroclor 1016	569.3	23	66	822.9	0	69.2	40-140	0			
Aroclor 1260	481.5	18	66	822.9	0	58.5	40-140	0			
Surr: Decachlorobiph	enyl 19.18	0	0	32.9	0	58.3	40-140	0			
Surr: Tetrachloro-m-x	ylene 18.19	0	0	32.9	0	55.3	45-124	0			

MSD S	Sample ID: 21071881-01	A MSD			Ur	nits: μ g/K	g	Analysis	Analysis Date: 7/28/2021 11:13 A				
Client ID:		Run ID: GC1	4_21072	.8A	Seq	No: 7616	242	Prep Date: 7/27/2	2021	DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Aroclor 1016	440.9	22	65	816.4	0	54	40-140	569.3	25.	4 50			
Aroclor 1260	437.9	18	65	816.4	0	53.6	40-140	481.5	9.4	9 50			
Surr: Decachlorobiph	nenyl 18	0	0	32.64	0	55.2	40-140	19.18	6.3	5 50			
Surr: Tetrachloro-m-	xylene 17.18	0	0	32.64	0	52.7	45-124	18.19	5.7	1 50			

The following samples were analyzed in this batch:

21071728-01A 21071728-02A 21071728-03A

Client: Fishbeck, Inc.
Work Order: 21071728

QC BATCH REPORT

Project: City of Kalamazoo 322 East Stockbridge Phase II

Batch ID: R322810	Instrument ID MOIS	Т	Metho	d: SW	/3550C							
MBLK	Sample ID: WBLKS-R322	810			Ur	nits: % of	sample	Analysi	Analysis Date: 7/23/2021 03:2			
Client ID:		Run ID: MO	IST_210723E		Seq	No: 7607	244	Prep Date:		DF: 1		
Analyte	Result	MDL	PQL SPK		PK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	U	0.1	0.10									
LCS	Sample ID: LCS-R322810)			Ur	nits: % of	sample	Analysi	s Date: 7	/23/2021 0	3:23 PM	
Client ID:		Run ID: MO	IST_210723E		Seq	No: 7607	243	Prep Date:		DF: 1		
Analyte	Result	MDL	PQL SPK	_	PK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	99.99	0.1	0.10 10)	0	100	98-102	. 0				
DUP	Sample ID: 21071594-01	3 DUP			Ur	nits: % of	sample	Analysi	s Date: 7	/23/2021 0	3:23 PM	
Client ID:		Run ID: MO	IST_210723E		Seq	No: 7607	229	Prep Date:		DF: 1		
Analyte	Result	MDL	PQL SPK	_	PK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	10.79	0.1	0.10)	0	0	0-0	11.03	2.2	10		
DUP	Sample ID: 21071728-01/	A DUP			Units: % of sample			Analysi	s Date: 7	/23/2021 0	3:23 PM	
Client ID: COK-21-0	7-SS-01 (1') I	Run ID: MO	IST_210723E		Seq	No: 7607	240	Prep Date:		DF: 1		
Analyte	Result	MDL	PQL SPK	_	PK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	13.43	0.1	0.10)	0	0	0-0	10.57	23.8	10	R	
The following samp	oles were analyzed in this	oatch:	21071728-01	A	210717	28-02A	21	1071728-03A				

Client: Fishbeck, Inc. Work Order: 21071728

QC BATCH REPORT

City of Kalamazoo 322 East Stockbridge Phase II **Project:**

Batch ID: R322914	Instrument ID MOIS	т	Method:	SW3550C
MBLK	Sample ID: WBLKS-R322	2914		Units: % of sample Analysis Date: 7/26/2021 10:12 A
Client ID:		Run ID: MO	IST_210726B	SeqNo: 7611259 Prep Date: DF: 1
Analyte	Result	MDL	PQL SPK Val	SPK Ref Control RPD Ref RPD Value %REC Limit Value %RPD Limit Qual
Moisture	U	0.1	0.10	70.120
LCS	Sample ID: LCS-R322914	1		Units: % of sample Analysis Date: 7/26/2021 10:12 A
Client ID:		Run ID: MO	IST_210726B	SeqNo: 7611258 Prep Date: DF: 1
Analyte	Result	MDL	PQL SPK Val	SPK Ref Control RPD Ref RPD Value %REC Limit Value %RPD Limit Qual
Moisture	99.96	0.1	0.10 100	0 100 98-102 0
DUP	Sample ID: 21071815-01	C DUP		Units: % of sample Analysis Date: 7/26/2021 10:12 A
Client ID:		Run ID: MO	IST_210726B	SeqNo: 7611243 Prep Date: DF: 1
Analyte	Result	MDL	PQL SPK Val	SPK Ref Control RPD Ref RPD Value %REC Limit Value %RPD Limit Qual
Moisture	36.39	0.1	0.10 0	0 0 0-0 32.49 11.3 10 R
DUP	Sample ID: 21071841-05	A DUP		Units: % of sample Analysis Date: 7/26/2021 10:12 A
Client ID:		Run ID: MO	IST_210726B	SeqNo: 7611252 Prep Date: DF: 1
Analyte	Result	MDL	PQL SPK Val	SPK Ref Control RPD Ref RPD Value %REC Limit Value %RPD Limit Qual
Moisture	13.54	0.1	0.10 0	0 0 0-0 13.56 0.148 10
The following samp	oles were analyzed in this	batch:	21071728-01A	

CUSTODY Address: 1515 Arboretu Grand Rapids, Phone: 616.575.3824								5			Email: <u>pdmahler@fishbeck.com</u> Copy to: Email:							Email: <u>acpay@fishbeck.com</u> Lab Quote Reference: 2 07 728				
	AME mazoo/322 Ea e Phase II ESA	st	PROJECT NO. 210750			MATE	RIX TYP	E		REQUIRED ANALYSES								PAGE	1	OF	1	
PROJECT LO Kalamazoo, PROJECT M Form Budge	OCATION	phel/	PHONE 2 EMAIL t	NAME GAPBUI 69.544.6948 campbell@fishbeck.c	AQUEOUS (WATER)	SOLID/SEMI-SOLID		NONAQUEOUS LIQUID	PCBs (8082)				PRESER	VATIVE				STD T RUSH DATE				
	MPLE		SAMPLE IDENT	IFICATION	AQUEOL	sorid/si	AIR	NONAQI	None		NUA	ABER OF	CONTA	AINERS	SUBMI	TTED			R	EMARKS		THE RESERVE THE PROPERTY OF TH
7/21/71 11:40		COK-21-07-SS-01 (/))				х			1													
	11:55	COK-21-07-	ss-02 (0. 5-)	`)!		X																
V	12:35	COK-21-07-	ss-03 (/ ¹)1		X)													
RELINQUIS	HEDBY CANA	7/21/2	re til	ME RELINQUISH	ED BY			DAT	E	TIME	R	ELINQU	SHED B	iY	DATE		TIME	METHOD OF	SHIPMEN	3,8°C T/BILL OF LA		
RECEIVED		DA [*]		ME RECEIVED BY	7	***************************************		DAT	Έ	TIME	R	ECEIVED	ВУ		DATE	-	TIME	RECEIVED FO		DATE - 7/21/2	TIME	7

Report to: Penni Mahler

Invoice to: Accounts Payable

2021-07-01

CHAIN OF

Fishbeck

Sample Receipt Checklist

Client Name: FTCH - GR				Date/Time Received: 21-Jul-21 14:47							
Work Order:	<u>21071728</u>				Received b	y:	LYS				
Checklist comp	leted by <u>Lydia Sweet</u> eSignature	21	I-Jul-21 Date	_	Reviewed by:	Lodi Z					23-Jul-21 Date
Matrices: Carrier name:	<u>Soil</u> <u>Client</u>	'								Ţ	
Shipping container/cooler in good condition?		Yes	✓	No 🗌	Not I	Present					
Custody seals intact on shipping container/cooler?		Yes		No 🗌	Not I	Present	✓				
Custody seals intact on sample bottles?		Yes		No 🗌	Not I	Present	✓				
Chain of custody present?		Yes	✓	No 🗌							
Chain of custody signed when relinquished and received?		Yes	✓	No 🗌							
Chain of custody agrees with sample labels?		Yes	✓	No 🗌							
Samples in proper container/bottle?		Yes	✓	No 🗌							
Sample containers intact?			Yes	✓	No 🗌						
Sufficient sample volume for indicated test?			Yes	✓	No 🗌						
All samples received within holding time?			Yes	✓	No 🗌						
Container/Temp Blank temperature in compliance?			Yes	~	No 🗌						
Sample(s) received on ice? Temperature(s)/Thermometer(s):			Yes 3.0/3.0		No 🗆		IR1				
Cooler(s)/Kit(s):	;										
Date/Time sample(s) sent to storage:			7/21/20 Yes	021 3	8:37:47 PM No	No VOA	vials subn	nittod	✓		
Water - VOA vials have zero headspace?			Yes		No \square		Viais subii	ilitteu	V		
Water - pH acceptable upon receipt? pH adjusted?			Yes		No 🗆		<u> </u>				
pH adjusted by:			-								
Login Notes:											
	- — — — — — — — — —						_ — — –				
Client Contacted: Date Contacted:			Person Contacted:								
Contacted By: Regarding:											
-		-									
Comments:											
CorrectiveAction:											
									Ç.	C D	go 1 of 1