

Request for Proposal

Demolition – 75 Barker Road, Whitmore Lake, MI 48189

RFP # 22-001

**Northfield Township
8350 Main Street
Whitmore Lake, MI 48189**

January 26, 2021

1. Intent of Request for Proposals (RFP), Background, and Bid Requirements

1.1 Intent of Request for Proposals (RFP)

The purpose of this Request for Proposals is to solicit competitive sealed proposals from qualified and experienced individual(s) or firm(s) to provide demolition services for the Northfield Township (NT). NT is requesting bids for the demolition and site clearance of all existing structures, together with all associated out buildings and appurtenances (the “**Demolition Area**”) at 75 Barker Road, Whitmore Lake, Michigan (see **Attachment 2**, ‘Demolition Area’). The successful Contractor will be expected to provide all tools, transportation, labor, disposal, fill and equipment necessary to perform the required duties herein. **The overall objective of this project is to remove all structures, debris, site components, etc. and to leave the ground empty, level, and ready for future development or a parking lot.**

1.2 Northfield Township Background

Northfield Township (NT) is a Local Government Agency in the state of Michigan. NT has a population of approximately 8,900. The Board of Trustees consists of seven (7) elected members, Township Supervisor, Treasurer, Clerk and 4 Trustees. The township does employ a Township Manager.

1.3 Bid Requirements.

Bids must be sealed and submitted in a timely manner. Bidders shall provide (1) sealed copy of the proposal and it **MUST** be labeled on the outside with **Demolition RFP # 22-001**. Proposals must be submitted before 2:00 p.m. on **Tuesday, February 22, 2022**, to Northfield Township Attn: Demolition RFP, 8350 Main Street, Whitmore Lake, MI 48189. Any proposal received after that deadline will be deemed non-responsive and will not be considered for evaluation. **Faxed copies will NOT be accepted.**

Bids must be submitted on this form, and must be typed or written in ink and signed. Bids must be signed by an official of the company authorized to bind the offeror (Please see #9 below). The proposed price shall be good for a period of at least one hundred twenty (120) days from the submittal date. NT reserves the right to refuse any and all bids and to waive any technicalities and formalities. NT reserves the right to negotiate with all qualified offerors and reserves the right to cancel this solicitation in part or in its entirety if it is in the best interest of NT to do so. Any agreement for services is subject to board approval.

A **mandatory** Pre-Bid walk-through at the demolition site (75 Barker Road, Whitmore Lake, MI 48189) will occur on **Wednesday, February 9, 2022** at 10:00 AM. Attendance at walk-through is **mandatory** to qualify to bid project.

Those wishing to submit a bid for the project must provide, at a minimum, the following items:

- Completed bid worksheet (Attachment 1). Note the bid form is laid out in a specific manner. Please structure your bids accordingly.
- Proof of all other appropriate professional licensing as required by the State of Michigan
- A disposal plan for all structures and debris removed from the site
- Proof of Insurance: General Liability & Workers Comp

This solicitation does not commit NT to award a contract, or to pay for any cost incurred in the preparation of your proposals, or to procure or contract for any articles of goods or services.

2. Scope of Service

- 2.1. Fees. Contractor is responsible for ALL permits, fees, inspections, certifications and approvals necessary to demolish the buildings as outlined by the standards established by federal, state, and local authorities. This is a township owned property. The demolition permit from NT will be \$125 and should be included in the contractors bid under the 'Permits & Fees' entry on the bid form. The balance of the required permits and fees are the contractor's responsibility to determine and include in the pricing.
- 2.2. Fencing. Six-foot high chain link fence is required around the perimeter of the demolition site until substantial completion is achieved.
- 2.3. Utilities and Terminations. Prior to commencement of work by Contractor, NT will conduct all utility terminations, power/phone/cable disconnections, as well as be responsible for any service or termination fees (if applicable) within the Demolition Area, not including mainlines. Contractor will cap sewer laterals at property line on parcel of property at the time of building demolition. All lateral lines (sewer, water, etc.) from disconnection point to the building shall be removed and disposed of by Contractor.
NT will require cut-off of utilities serving the property and written verification of the same.
MichCon/DTE Energy
Consumers Energy – Electric / Gas
Water – City / Private Well
City Sewer / Private Septic
- 2.4. Demolition and site clearance. Contractor shall demolish and remove all above and below ground debris and appurtenances including but not limited to; the main structure and/or any detached structures, all basements, footings, foundations, floors, porches, private sidewalks and debris of any kind. Contractor shall include the demolition and removal of all parking slabs, concrete and/or asphalt flatwork including aggregate base to a depth of 6 inches (not including city sidewalk and curb/gutter), or any underground piping, junk, trash or dead trees which may be present. No debris shall be left or buried on the site. Demolition methods must include a means of controlling dust generated on the site. Should these means include the use of water, the rental of a water truck will be the responsibility of the Contractor. All removal from this site of debris, rubbish, and other materials resulting from demolition operations must be disposed of in a legal manner.
- 2.5. Asbestos Abatement
An Asbestos pre-demolition survey has been performed and is included as Attachment 3 to this RFP. Asbestos removal shall be included in the base contract price.

EGLE must be notified on Form EQP5661/MIOSHA-CSH 142 ten days prior to start of demolition even if no relevant asbestos was found. Friable asbestos or asbestos that may become friable during the demolition process must be removed prior to the start of demolition. A qualified Asbestos Abatement contractor must be used to remove asbestos containing materials (ACM) and disposed of in accordance with Michigan law. Contractor and worker requirements are found in Michigan PA 135 (1986) and 440 (1988) as amended. The regulations found in 40 CFR 61 Subpart M (NESHAP) and MIOSHA regulations Parts 305 and 602 apply during removal of ACM and demolition if ACM are allowed to remain in the facility.

- 2.6. Green Waste: Contractor will remove all identified trees and plant material. Tree removal shall include completely removing tree stumps.
- 2.7. Backfill and Compaction. Excavated areas associated with the removal of all substructures shall be backfilled with a well-graded granular material meeting MDOT Class III sand specifications. Job excavated fill meeting this specification is acceptable. All earth materials placed in excavated areas should be placed in maximum eight inch loose lifts and densified to an in-place unit weight equal to 95% of the Maximum Laboratory Density as determined by ASTM D 1557-78. Inspections required after demolition and prior to backfill.
- 2.8. Environmental Contaminant Discovery. Underground hydraulic, oil or gas tanks may be present in the Demolition Area. If a UST is encountered, the costs associated with removal will be negotiated separately and should not be included in the base bid. Upon discovery of any UST, Contractor will
- Stop all Work associated with discovery
 - Notify NT
 - Identify size and location of tank
 - Wait for NT approval and further instructions
- 2.9. Restoration:
The site shall have 3 inches of topsoil spread with MDOT THM seed, topsoil and mulch. Hydro seed is an acceptable alternate, but the contractor is responsible for grass growth prior to final payment.
- 2.10. Project Schedule.
This project shall be scheduled within 60 days of issuance of the Notice to Proceed. The project shall be substantially completed with all debris and equipment removed from site within 30 calendar days of mobilization on-site. Final completion included turf establishment shall be achieved no later than September 1, 2022.
- 2.11. Dumping Requirements: All demolition debris must be taken to a licensed landfill. All landfill receipts (for general debris and hazardous waste) must be turned in before final approval and payment.
- 2.12. Infrastructure Protection: Protect Municipal sidewalks, drive approaches, parking lots, and street by means acceptable to Northfield Townships Engineers. **Contractor will be liable for any damage to public property.**
- 2.13. Salvage and Recycling: Salvage rights belong to the Contractor after Notice to Proceed is issued. All portions of the demolitions must be removed, to include scrap metals, concrete, and other materials. Contractor may sell any and all materials and retain any proceeds from the sale of such materials. It is the expectation of NT that any proceeds earned by Contractor through recycling or salvaging will offset the costs of their services.
- 2.14. Safety: Public safety must be considered at all times. The Contractor must take precautions at all times to utilize and store materials and equipment in a way that will prevent injury to citizens. Before leaving for the day, Contractor must ensure that proper signs, caution tape, physical barriers or other devices as needed to signal a hazard or restrict public access are in place. In addition, the Contractor must insure the safety of their workers by adhering to industry best

practices, OSHA safety, and traffic safety guidelines as applicable for the activity being performed. The NT-designated Project Manager reserves the right to temporarily stop work if they see an unsafe practice and to suspend work until the issue is addressed.

- 2.15. Record on a Record Document location and extent of all capped and abandoned lines below grade.

3. Outline of Expectations

- 3.1. Significant experience in demolition and removal of commercial site debris, backfill and grading. The successful bidder shall clearly possess an understanding of the scope of work required including:
 - a. Permitting and clearances
 - b. Demolition site clearance and backfill/ site grading.
 - c. Project completion documentation.
 - d. Possess the required licenses, insurance, bonding, etc.
- 3.2 Contractor will assure that all permitting, demolition and debris removal will comply with applicable Township, State and Federal regulations and procedures covering demolition, i.e., Michigan Dept of Environmental Quality, OSHA, Michigan Labor Commission, Federal Department of Transportation and Michigan Department of Air Quality.

4. Special Instructions

- 4.1. Project Demolition Order & Activities. Demolition shall commence as directed by NT.
- 4.2. Fee Estimate. Proposals should include a detailed cost breakdown of all proposed fees – see **Attachment 1 – Bid Worksheet**. NT reserves the right to demolish none, all or any number of buildings.
- 4.3. Operating Hours: Work shall be performed between 7am and 7pm Monday thru Saturday only.

5. Contract Documents NT will negotiate a Professional Services Agreement with the selected Contractor.

6. Insurance Requirements Contractor shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by Contractor, its agents, representatives, employees or subcontractors. The cost of such insurance shall be included in Contractor's bid. The amount of insurance shall not be less than:

1. Commercial General Liability: \$1,000,000 combined single limit per occurrence and \$2,000,000 general aggregate for bodily injury, personal injury and property damage.
2. Business Automobile Liability: \$1,000,000 combined single limit per accident for bodily injury and property damage for owned, non-owned and hired autos.
3. Workers' Compensation and Employers' Liability: Workers' compensation limits as required by the labor code of the State of Michigan and employers' liability with limits of \$1,000,000 per accident.

Each insurance policy required by this Agreement shall contain the following clauses:

-This insurance shall not be suspended, voided, canceled, reduced in coverage or in limits except after thirty days prior written notice by certified mail, return receipt requested, has been given to Northfield Township.

-It is agreed that any insurance or self-insurance maintained by Northfield Township, its elected and appointed officials, employees, agents and volunteers shall be excess of Contractor's insurance and shall not contribute with insurance provided by this policy.

Each insurance policy required by this Agreement, accepting policies for Workers' Compensation and Professional Liability shall contain the following clause:

-Northfield Township, its elected and appointed officials, employees, agents and volunteers are to be named as additional insurers as respect to operations and activities of, or on behalf of, the named insured as performed under Agreement with Northfield Township.

Insurance is to be placed with insurers acceptable to and approved by NT. Contractor's insurer must be authorized to do business in Michigan at the time the contract is executed and throughout the time period the contract is maintained, unless otherwise agreed to in writing by NT. Failure to maintain or renew coverage or to provide evidence of renewal will be treated by NT as a material breach of contract.

NT shall be furnished with original certificates of insurance and endorsements effecting coverage required within, signed by a person authorized by that insurer to bind coverage on its behalf. All certificates and endorsements are to be received by NT before work commences.

NT reserves the right to require complete, certified copies of all required insurance policies at any time.

Any deductibles or self-insured retentions must be declared to and approved by NT. At the option of NT, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects NT, its elected and appointed officials, employees, agents and volunteers; or Contractor shall provide a financial guarantee satisfactory to NT guaranteeing payment of losses and related investigations, claim administration and defense expenses.

Contractor shall include all subcontractors and insured under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverage for subcontractors shall be subject to all of the requirements stated herein.

Nothing contained herein shall be construed as limiting in any way the extent to which Contractor may be held responsible for payments of damages to persons or property resulting from Contractor's or its subcontractor's performance of the work covered under this Agreement.

7. **Bond Requirements:** Bid Bond – The contractor is required to submit a bid bond with the bid for not less than 5% of the bid amount. Performance Bond - The Contractor will be required to submit a performance bond to the Township in the amount equal to the bid amount prior to start of the work. The bond will be released upon successful completion of the project and final acceptance by NT. Payment Bond - The Contractor will be required to submit a payment bond to the Township in the amount equal to the bid amount prior to start of the work. The bond will be released upon successful completion of the project and final acceptance by NT.

8. **Furnishing of W-9:** Payment under this Agreement is contingent upon Contractor furnishing NT with a signed and completed W-9 IRS tax form. Contractor shall cooperate with NT in furnishing any additional information NT may need to comply with rules and regulations of the Internal Revenue Service.
9. **Evaluation and Award** The contractor selection will be based on proposed Contractor pricing. Price will be based on the total bid amount.

NT reserves the right to accept or reject any bid that best serves its convenience and/or is found to be in its best interest. NT encourages and welcomes bids from women-owned and minority-owned businesses. Bidders and their surrogates must be in good standing with NT with no outstanding property, zoning or tax issues.

10. **Bid Submittals** Those wishing to submit a bid for the project must provide, at a minimum, the following items:

- Completed bid worksheet (Attachment 1). Note the bid form is laid out in a specific manner. Please structure your bids accordingly.
- Documents showing appropriate certification in appropriate OSHA Class for asbestos removal.
- Proof of all other appropriate professional licensing as required by the State of Michigan
- If applicable, documents showing pre-certification as a woman-owned, minority owned, small, or disadvantaged business
- A disposal and recycling plan for all structures and debris removed from the site
- Proof of Insurance: General Liability, Workers Comp, Automobile (must be current)
- BONDS: A certified check or bid bond of not less than five percent [5%] of the amount of the bid is to accompany the bid. The bid bonds of the unsuccessful bidders will be returned within 5 days after the award of the bid. Northfield Township will also require a 100% full performance and 100% full payment bonds.

IF YOU REQUIRE ADDITIONAL INFORMATION:

Questions related to the proposal or regarding the bid process should be directed to Marcus McNamara with OHM Advisors at marcus.mcnamara@ohm-advisors.com

Attachments:

1. BID WORKSHEET
 2. DEMOLITION AREA
 3. AESBESTOS SURVEY
-

ATTACHMENT 1 – Demolition Bid Worksheet

Removal of Buildings & Land Items:	
Storm Water and Soil Erosion:	
Permits & Fees:	
Total Bid:	

I hereby warrant and represent that the information presented in this proposal is true, accurate and complete.

Company: _____

By: _____

Title: _____

Date: _____

ATTACHMENT 2 – ‘DEMOLITION AREA’

75 Barker Road, Whitmore Lake, MI 48189

Parcel: B-02-05-254-002



Building Details: Old Fire Hall is Masonry Block Building (approx. 5,700 sq.ft.)

Smaller Structure: Stick built office building (approx. 1,300 sq.ft.)



ATTACHMENT #3
ASBESTOS PRE-DEMOLITION SURVEY

**FORMER NORTHFIELD TOWNSHIP
FIRE STATION**

**LOCATED AT:
75 BARKER ROAD
WHITMORE LAKE, MICHIGAN**

PREPARED FOR:

Mr. Kenneth J. Dignan III
Northfield Township Supervisor
Northfield Township
9615 Main Street, Suite 1
Whitmore Lake, MI 48189
734.546.7803
dignank@Northfieldmi.gov

PREPARED BY:

TEK Environmental & Consulting Services, Inc.
9263 East M-36
Whitmore Lake, Michigan 48189

TEK Project Number: CI0044/1735
Date of Inspection: October 6, 2021

**ASBESTOS PRE-DEMOLITION SURVEY REPORT
FORMER NORTHFIELD TOWNSHIP FIRE STATION**

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ASBESTOS PRE-DEMOLITION SURVEY REPORT

FORMER NORTHFIELD TOWNSHIP FIRE STATION

EXECUTIVE SUMMARY

TEK Environmental & Consulting Services, Inc. (TEK) was retained by Mr. Kenneth J. Dignan III, Supervisor, on behalf of Northfield Township, to perform an Asbestos Pre-Demolition Survey within the former Northfield Township Fire Station, located at 75 Barker Road, Whitmore Lake, Michigan. The purpose of the inspection was to identify asbestos containing materials within the facility, prior to demolition activities. The inspection and sample collection procedures were conducted by Mr. Anthony Rich, of TEK, and licensed State of Michigan Asbestos Building Inspector, on October 6, 2021.

Suspect Building Materials identified during this inspection included materials listed below

1955 Building:

- Plaster-board system, ceiling, w/ troweled-on texture pattern;
- Pipe straight insulation, brown paper layer w/black tar-paper inner lining (“duplex” type);
- HVAC duct insulation, red fibrous matt w/grey plastic wrap;
- 2' × 4' Ceiling panel, suspended, pinholes-lg. gouges pattern;
- 2' × 4' Ceiling panel, suspended, pinholes-sm. pockmarks pattern;
- 18" × 36" Ceiling panel, fastened, smooth pattern, lt. brown fibrous matrix;
- **9" × 9" Floor tile, grey w/white & black streak-mottling, & black mastic;**
- **9" × 9" Floor tile, beige w/brown streak-mottling, & black mastic;**
- **12" × 12" Floor tile, beige w/tan-grey mottle, & yellow-tan adhesive/mastic;**
- **12" × 12" Floor tile, brown w/white-tan-grey mottle, & black mastic;**
- Vinyl sheet flooring, lt. grey mottle w/faux 9"×9" pattern;
- Vinyl sheet covering, countertops, grey w/white & grey marbling, black felt backing, & adhesive;
- Vinyl sheet covering, countertop, off-white w/grey & black “confetti”, felt backing, & adhesive;
- Decorative wall panel, ¼" hardboard, lt. grey w/blue-grey streak pattern, & constr. adhesive;
- 4" Vinyl cove base, tan, and adhesive;
- 4" Vinyl cove base, white, and adhesive;
- Wallboard system (gypsum panel, joint-compound);
- Window glaze compound, off-white/lt. grey, brittle, chalky;

Continued Suspect Building Materials identified during this inspection included materials listed below

1955 Building:

- Refractory cement, grey, cementitious;
- Concrete masonry unit (CMU wall block), grey;
- Mortar joint, for CMU (HA-20);
- HVAC duct vibration dampener, black vinyl-coated fabric;
- Floor vapor barrier, black bituminous paper layer (underneath hardwood flooring);
- 4" Vinyl cove base, dk. grey, and adhesive;
- **Vinyl sheet covering, tabletop & cabinet liner, beige/tan, w/grey felt backing;**
- **Sink under-coating, textured, lt. lavender;**
- Window gap insulation, fibrous batt w/paper & black coating;
- Attic insulation, loose blown-in, cellulosic, lt. brown, fibrous;
- Carpet adhesive, tan & **mastic, black;**
- Carpet adhesive, yellow-tan;
- Floor leveling compound, grey, thin, w/residual adhesives & **mastic, black;**
- **Residual floor mastic, black;**
- Sub-layer vinyl sheet flooring, tan w/grey felt backing & adhesive (below HA-11)
- Spray-foam sealant, yellow-orange; Exterior, doorframe caulk, off-white, semi-flexible;
- Exterior, window lintel caulk, off-white;
- Exterior, glass-block mortar joint, cementitious;
- Exterior, bulletin-board/notification panel frame caulk, grey;
- Exterior, window-frame caulk, lt. grey, flexible;
- **Exterior, window-frame caulk, grey/tan, brittle;**
- Wallboard system (gypsum panel, joint-compound);
- HVAC duct insulation, yellow fibrous matt w/grey plastic wrap;
- Slate roofing shingles, grey, striated matrix;
- Refractory compound, dk. grey;
- Skim-coat plaster surfacing on CMU wall;

Suspect Building Materials identified during this inspection included materials listed below

1971 Building Addition:

- Wallboard system (gypsum panel, joint-compound);
- Wall cavity insulation, pink fibrous batt w/paper layer & black coating;
- 1' × 1' Ceiling tile, adhered, w/groove pattern & brown adhesive;
- Wall cavity insulation, yellow fibrous batt w/paper layer & black coating;
- Carpet adhesive, yellow-tan;
- Exterior, asphalt roofing shingles, w/grey grit;
- Exterior, bituminous sheet roof underlayment;
- Exterior, wall panel sheathing, fibrous, brown;
- Exterior, tar-paper vapor barrier;
- Exterior, window-frame caulk, off-white/lt. grey, semi-flexible;

The following materials tested **positive for asbestos content:**

- **9" × 9" Floor tile, grey w/white & black streak-mottling;**
- **9" × 9" Floor tile, beige w/brown streak-mottling & black mastic;**
- **12" × 12" Floor tile, beige w/tan-grey mottle**
- **12" × 12" Floor tile, brown w/white-tan-grey mottle, & black mastic;**
- **Vinyl sheet covering, tabletop & cabinet shelf liner, beige/tan, w/grey felt backing;**
- **Sink under-coating, textured, lt. lavender;**
- Carpet adhesive, tan & mastic, black;
- Floor leveling compound, grey, thin, w/residual adhesives & mastic, black;
- **Residual floor mastic, black;**
- **Exterior, window-frame caulk, grey/tan, brittle;**

The following materials were **assumed positive for asbestos content:**

- **Roofing Materials**

Locations of ACM materials and quantities are located in Table 2.

1.0 INTRODUCTION

TEK Environmental & Consulting Services, Inc. (TEK) was retained by Mr. Kenneth J. Dignan III, Supervisor, on behalf of Northfield Township, to perform an Asbestos Pre-Demolition Survey within the former Northfield Township Fire Station, located at 75 Barker Road, Whitmore Lake, Michigan. The purpose of the inspection was to identify asbestos containing materials within the facility, prior to demolition activities. The inspection and sample collection procedures were conducted by Mr. Anthony Rich, of TEK, a licensed State of Michigan Asbestos Building Inspector, on October 6, 2021.

Tables and Figures summarize the survey information separately for the building. Table 1 – Homogeneous Area Materials List identifies homogeneous materials found in the building and identifies if these materials tested positive or negative for asbestos. Table 2 – Homogeneous Materials Sample Locations and Results, which provides information on where inspector collected sample and the analytical results.

Elements of the asbestos building inspection were based on practices specified in Michigan Public Act 440 of 1988, U.S. Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA) standards and included the identification of homogeneous areas within the subject facilities, bulk sample collection of suspect materials, and laboratory analysis.

Field activities were performed by Accredited Asbestos Building Inspectors as recognized by the State of Michigan Department of Labor and Regulatory Affairs (LARA), who have met the requirements of Section 206 of the Toxic Substances Control Act and the Asbestos School Hazard Abatement Reauthorization Act (ASHARA). The Model Accreditation Plan (MAP) under ASHARA extends training and accreditation requirements to those individuals performing asbestos inspections in public, commercial and industrial buildings.

Applicable licensing and accreditation information is included in Attachment C. The goal of this asbestos survey is to provide an identification of Asbestos Containing Materials (ACM) in the subject structures.

2.0 APPLICABLE REGULATIONS

The following list highlights the primary federal regulations governing the asbestos inspection and abatement industry.

**ASBESTOS PRE-DEMOLITION SURVEY REPORT
FORMER NORTHFIELD TOWNSHIP FIRE STATION**

EPA 40 CFR 763-Asbestos- This regulation requires local education agencies to conduct inspections, sample suspect asbestos containing building materials (ACBM), assess the condition of the ACBM, develop and implement response action recommendations, and develop a plan for managing the materials.

OSHA 29 CFR 1926.1101 Construction Industry Standard for Asbestos - Covers asbestos exposure in work involving: (a) demolition or salvage of structures where asbestos is present, (b) removal or encapsulation of materials containing asbestos, (c) construction, alteration, repair, maintenance, or renovation of structures, substrates, or portions thereof, that contain asbestos, (d) disposal, storage, transportation, containment of and housekeeping activities associated with asbestos or products containing asbestos.

OSHA 29 CFR 1910.134 General Industry Standard for Respiratory Protection – Purpose proper use, fitting instructions, maintenance, care and limitations of respirators. Requires development of standard operating procedures and a written respirator program.

OSHA 29 CFR 1910.20 Access to Employee Exposure and Medical Records - Record keeping and employee access to records, including exposure monitoring information, medical surveillance and training records.

OSHA 29 CFR 1910.1200 Hazard Communication Standard - Requires employers to provide information to their employees about hazardous chemicals/materials to which they are exposed. This information is transmitted by means of a hazard communication program, labels and other forms of warning, material safety data sheets, and training.

EPA ASHARA Model Accreditation Plan (MAP) - Expands TSCA Section 206, specifically the training and accreditation requirements, to persons performing asbestos work in public and commercial buildings. Applicable to anyone who inspects for ACM, designs or conducts a response action with respect to friable ACM.

Department of Transportation (DOT) 49 CFR 171-178 - Includes requirements for classification of materials, packaging, hazard communication (package marking, labeling, placarding, and shipping documentation), transportation, handling and incident reporting.

Asbestos is classified as follows:

Proper Shipping Name:	Environmentally Hazardous Substance (Asbestos)
Special Provisions:	None
Hazard Class or Division:	9
I.D. Numbers:	NA 2212
Packing Group:	III
Label:	Class 9

EPA 40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants -Rules concerning the application, removal, and disposal of ACM. Also covers notification requirements to a regional NESHAP Coordinator which specifies quantities, project dates, description of planned removal methods, procedures to be used to comply with the requirements of the regulation, and disposal site information.

3.0 SAMPLING PLAN AND SAMPLE COLLECTION PROCEDURES

The objective of the asbestos survey investigation was to identify suspect visible and accessible asbestos-containing building materials (ACM) grouped by homogeneous materials and functional spaces. Mr. Anthony Rich, of TEK, a licensed State of Michigan Asbestos Building Inspector, conducted a survey of the building on October 6, 2021. The following subsections describe the sampling plan and data collection phases of the survey.

3.1 Plan Review

One of the first steps in conducting an asbestos survey is to review building plans or specifications of the subject property to determine the construction type and materials used. However, specifications could not be located at the time of inspection for the subject building.

3.2 Site Walk Through and Visual Survey

A site walk-through and visual survey was conducted to identify various suspect building materials. The inspection included the observation of wall and ceiling materials, flooring systems, various structural building components, utility/mechanical components and thermal system insulation.

3.3 Sampling Plan

Homogeneous areas of material appear uniform in texture and color, and appear identical in every other respect. Materials were categorized into one of the following three material types commonly known to contain asbestos: (1) surfacing material, (2) thermal system insulation, and (3) miscellaneous material. Each type contains many different and distinct variations. For classification purposes, each distinct material was assigned a unique identification number. Suspect homogeneous materials were also quantified within each building. Information regarding homogenous materials is located in Table 1 - Homogeneous Area Materials List.

According to the U.S. Environmental Protection Agency (EPA), asbestos materials are classified as friable, Category I nonfriable or Category II nonfriable in 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAPS). The NESHAPS classes are defined as follows:

"Friable asbestos material" - any material containing greater than one percent (>1%) asbestos that when dry can be crumbled, pulverized, or reduced to powder by hand pressure.

"Category I non-friable ACM" - means asbestos-containing packing, gaskets, resilient floor covering, and asphalt roofing products containing greater than one percent (>1%) asbestos.

"Category II non-friable ACM" - means any non-friable material, excluding Category I non-friable ACM, containing greater than one percent (>1%) asbestos.

3.4 Sample Collection

Sampling procedures were performed in an Asbestos Hazard Emergency Response Act, 40 CFR Part 763 (AHERA), by a State of Michigan licensed asbestos inspector. A total of 160 samples, including layers, were collected during the survey. Materials identified during this inspection can be found in Table 1.

Random sampling methods were conducted in a manner to minimize unnecessary building material damage and to avoid disturbance of building occupants. When feasible, samples were collected on materials that exhibited signs of damage.

This survey excluded inaccessible or hidden areas that could not be viewed without destructive access, such as above fixed ceilings, materials located within equipment, or inside or behind walls. There may be materials located within equipment, behind walls, or above ceilings which are not accessible and therefore, not identified or quantified during the survey. Details about sample collection locations and results of samples are located in Table 2 – Homogeneous Materials Sample Locations and Results.

3.5 Sample Analysis

Samples of suspect ACM were submitted to Apex Research, Inc. an EPA accredited laboratory, for analysis by Polarized Light Microscopy (PLM) method EPA 600/R-93/116. A material is considered positive for asbestos is present in an amount greater than 1 percent. Laboratory analytical reports are included in Appendix A.

4.0 SURVEY RESULTS

A material that is positive for asbestos means that asbestos was present in the material in the amount of greater than 1% by weight. Materials that tested positive can be found in Table 2 with locations and quantities.

5.0 CONCLUSION

All ACM that will be impacted by any future renovations or demolition must be removed prior to any work by a licensed State of Michigan Asbestos Abatement Contractor. Furthermore, abatement activities must be conducted in compliance with all applicable regulations, standards and generally accepted environmental and safety practices.

6.0 SURVEY LIMITATIONS

TEK inspected the building(s) as thoroughly as possible without impacting the exterior envelope of the building. TEK has attempted to investigate the existing conditions within the subject building using standard professional procedures. This asbestos survey is intended to identify asbestos-containing materials associated with planned demolition processes.

Regardless of the thoroughness of an asbestos survey, it is possible that some materials were inaccessible or electrically energized during inspection procedures. Such areas may include mechanical equipment, underground pipe chases/trenches, pipe insulation in masonry walls, etc. Planned demolition activities may expose unidentified materials hidden in walls, under concrete slab floors, pipe chases, etc. If newly identified suspect materials are discovered during demolition /abatement, workers must stop all work that may impact or damage the material and the material should be evaluated by TEK Environmental and sampled prior to disturbance and/or removed by a licensed abatement contractor.

It is noted that quantities and locations of ACM's may have been approximated because of facility constraints (i.e., inaccessible ceiling and wall areas, etc.) Therefore, the responsibility for the confirmation of quantities is required to be established by the contractor during the bidding processes.

TEK Environmental & Consulting Services, Inc., is pleased to provide Professional Environmental Consulting Services to you. Should you have any questions regarding this information, please feel free to contact the office at 734.878.5588.

**ASBESTOS PRE-DEMOLITION SURVEY REPORT
FORMER NORTHFIELD TOWNSHIP FIRE STATION**

Report prepared by:



Anthony G. Rich
Industrial Hygienist
MI Accredited Building Inspector #A11987

Report reviewed by:



Tyler S. Lenling, VP
Senior Project Manager
MI Accredited Building Inspector #A13413

EXHIBITS

TABLE 1

Homogeneous Area Materials List

**Table 1
Homogeneous Area Materials List
Former Northfield Township Fire Department**

HOMOGENEOUS AREAS		RESULTS	
HA#	MATERIAL DESCRIPTION	PLM ANALYTICAL	TOTAL QUANTITIES
01	Plaster-board system (Single-layer plaster, gypsum panel substrate), ceiling, w/troweled-on texture pattern	Plasterboard = NAD Drywall = NAD	-
02	Pipe straight insulation, brown paper layer w/black tar-paper inner lining ("duplex" type)	NAD	-
03	HVAC duct insulation, red fibrous matt w/grey plastic wrap	NAD	-
04	2' x 4' Ceiling panel, suspended, pinholes-lg. gouges pattern	NAD	-
05	2' x 4' Ceiling panel, suspended, pinholes-sm. pockmarks pattern	NAD	-
06	18" x 36" Ceiling panel, fastened, smooth pattern, lt. brown fibrous matrix	NAD	-
07	9" x 9" Floor tile, grey w/white & black streak-mottling, & black mastic	Floor Tile = Chrysotile - 2% Mastic = NAD	
08	9" x 9" Floor tile, beige w/brown streak-mottling, & black mastic	Floor Tile = Chrysotile - 5% Mastic = Chrysotile - 5%	
09	12" x 12" Floor tile, beige w/tan-grey mottle, & yellow-tan adhesive/mastic	Floor Tile = Chrysotile - 2% Mastic = NAD	
10	12" x 12" Floor tile, brown w/white-tan-grey mottle, & black mastic	Floor Tile = Chrysotile - 5% Mastic = Chrysotile - 2%	
11	Vinyl sheet flooring, lt. grey mottle w/faux 9"x9" pattern	NAD	-
12	Vinyl sheet covering, countertops, grey w/white & dk. grey marbling, black felt backing, & adhesive	Vinyl Sheet = NAD Adhesive/Glue = NAD	-
13	Vinyl sheet covering, countertop, off-white w/grey & black random "confetti" pattern, grey felt backing, & adhesive	Vinyl Sheet = NAD Adhesive/Glue = NAD	-
14	Decorative wall panel, 1/4" hardboard, lt. grey w/blue-grey streak pattern, & constr. Adhesive	Wall Panel = NAD Drywall = NAD Adhesive/Glue = NAD	-
15	4" Vinyl cove base, tan, and adhesive	Cove Base = NAD Adhesive/Glue = NAD	-
16	4" Vinyl cove base, white, and adhesive	Cove Base = NAD Adhesive/Glue = NAD	-
17	Wallboard system (gypsum panel, joint-compound)	Drywall = NAD Joint Compound = NAD	-
18	Window glaze compound, off-white/lt. grey, brittle, chalky	NAD	-
19	Refractory cement, grey, cementitious	NAD	-
20	Concrete masonry unit (CMU wall block), grey	NAD	-
21	Mortar joint, for CMU (HA-20)	NAD	-
22	HVAC duct vibration dampener, black vinyl-coated fabric	NAD	-
23	Floor vapor barrier, black bituminous paper layer (underneath hardwood flooring)	NAD	-

**Table 1
Homogeneous Area Materials List
Former Northfield Township Fire Department**

HOMOGENEOUS AREAS		RESULTS	
HA#	MATERIAL DESCRIPTION	PLM ANALYTICAL	TOTAL QUANTITIES
24	4" Vinyl cove base, dk. grey, and adhesive	Cove Base = NAD Adhesive/Glue = NAD	-
25	Vinyl sheet covering, tabletop & cabinet shelf liner, beige/tan sm. mosaic pattern, w/grey felt backing	Chrysotile - 15%	
26	Sink under-coating, textured, lt. lavender	Chrysotile - 5%	
27	Window gap insulation, fibrous batt w/paper & black coating	NAD	-
28	Attic insulation, loose blown-in, cellulosic, lt. brown, fibrous	NAD	-
29	Carpet adhesive, tan & mastic, black	Adhesive = NAD Mastic = Chrysotile 10%	
30	Carpet adhesive, yellow-tan	NAD	-
31	Floor leveling compound, grey, thin, w/residual adhesive & mastic	Glue = NAD Leveling Compound = NAD Mastic = Chrysotile - 2%	
32	Residual floor mastic, black	Chrysotile - 2%	
33	Sub-layer vinyl sheet flooring, tan w/grey felt backing & adhesive (below HA-11)	Vinyl Sheet = NAD Glue = NAD	-
34	Spray-foam sealant, yellow-orange	NAD	-
35	Exterior, doorframe caulk, off-white, semi-flexible	NAD	-
36	Exterior, window lintel caulk, off-white	NAD	-
37	Exterior, glass-block mortar joint, cementitious	NAD	-
38	Exterior, bulletin-board/notification panel frame caulk, grey	NAD	-
39	Exterior, window-frame caulk, lt. grey, flexible	NAD	-
40	Exterior, window-frame caulk, grey/tan, brittle	Chrysotile - 2%	
41	Wallboard system (gypsum panel, joint-compound)	Wallboard System = NAD Joint Compound = NAD	-
42	HVAC duct insulation, yellow fibrous matt w/grey plastic wrap	NAD	-
43	Slate roofing shingles, grey, striated matrix	NAD	-
44	Refractory compound, dk. grey	NAD	-
45	Skim-coat plaster surfacing on CMU wall	Skim Coat Plaster/FC = NAD Plaster/BC = NAD	-
--	(1971 Bldg. Addition)		

**Table 1
Homogeneous Area Materials List
Former Northfield Township Fire Department**

HOMOGENEOUS AREAS		RESULTS	
HA#	MATERIAL DESCRIPTION	PLM ANALYTICAL	TOTAL QUANTITIES
46	Wallboard system (gypsum panel, joint-compound)	Drywall = NAD Joint Compound = NAD	-
47	Wall cavity insulation, pink fibrous batt w/paper layer & black coating	NAD	-
48	1' x 1' Ceiling tile, adhered, w/groove pattern & brown adhesive	Ceiling Tile = NAD Adhesive/Glue Pod = NAD	-
49	Wall cavity insulation, yellow fibrous batt w/paper layer & black coating	NAD	-
50	Carpet adhesive, yellow-tan	NAD	-
51	Exterior, asphalt roofing shingles, w/grey grit	Asphalt Shingles w/ Grey = NAD Black Shingle = NAD	-
52	Exterior, bituminous sheet roof under-layment	NAD	-
53	Exterior, wall panel sheathing, fibrous, brown	NAD	-
54	Exterior, tar-paper vapor barrier	NAD	-
55	Exterior, window-frame caulk, off-white/lt. grey, semi-flexible	NAD	-

Key: NAD = No Asbestos Detected

Shaded rows indicate materials that are assumed or tested positive for asbestos.

TABLE 2

**Homogeneous Materials Sample Locations
and Results**

Table 2
Homogeneous Materials Sample Locations and Results
Former Northfield Township Fire Department

HOMOGENEOUS AREAS		BULK SAMPLE LOCATIONS		ANALYTICAL
HA#	MATERIAL DESCRIPTION	SAMPLE #	SAMPLE LOCATION	PLM RESULTS
(1955 Building)				
01-A	Plaster-board system (Single-layer plaster, gypsum panel substrate), ceiling, w/troweled-on texture pattern	01-A	Garage area, S.	Plasterboard = NAD Drywall = NAD
01-B	Plaster-board system (Single-layer plaster, gypsum panel substrate), ceiling, w/troweled-on texture pattern	01-B	Garage area, S.	NAD, NAD
01-C	Plaster-board system (Single-layer plaster, gypsum panel substrate), ceiling, w/troweled-on texture pattern	01-C	Garage area, S.	NAD, NAD
02-A	Pipe straight insulation, brown paper layer w/black tar-paper inner lining (“duplex” type)	02-A	Garage area, S.	NAD
02-B	Pipe straight insulation, brown paper layer w/black tar-paper inner lining (“duplex” type)	02-B	Garage area, S.	NAD
02-C	Pipe straight insulation, brown paper layer w/black tar-paper inner lining (“duplex” type)	02-C	Garage area, S.	NAD
03-A	HVAC duct insulation, red fibrous matt w/grey plastic wrap	03-A	Garage area, E.-cent.	NAD
03-B	HVAC duct insulation, red fibrous matt w/grey plastic wrap	03-B	Garage area, E.-cent.	NAD
03-C	HVAC duct insulation, red fibrous matt w/grey plastic wrap	03-C	Garage area, E.-cent.	NAD
04-A	2' × 4' Ceiling panel, suspended, pinholes-lg. gouges pattern	04-A	Main office, cent.	NAD
04-B	2' × 4' Ceiling panel, suspended, pinholes-lg. gouges pattern	04-B	Main office, W.	NAD
05-A	2' × 4' Ceiling panel, suspended, pinholes-sm. pockmarks pattern	05-A	Main office, cent.	NAD
05-B	2' × 4' Ceiling panel, suspended, pinholes-sm. pockmarks pattern	05-B	Main office, cent.	NAD

**Table 2
Homogeneous Materials Sample Locations and Results
Former Northfield Township Fire Department**

HOMOGENEOUS AREAS		BULK SAMPLE LOCATIONS		ANALYTICAL
HA#	MATERIAL DESCRIPTION	SAMPLE #	SAMPLE LOCATION	PLM RESULTS
06-A	18" × 36" Ceiling panel, fastened, smooth pattern, lt. brown fibrous matrix	06-A	2nd fl., cent.	NAD
06-B	18" × 36" Ceiling panel, fastened, smooth pattern, lt. brown fibrous matrix	06-B	2nd fl., NE	NAD
07-A	9" × 9" Floor tile, grey w/white & black streak-mottling, & black mastic	07-A	Garage area, lavatory	FT = Chrysotile - 2% Mastic = NAD
07-B	9" × 9" Floor tile, grey w/white & black streak-mottling, & black mastic	07-B	Garage area, lavatory	N/A, NAD
08-A	9" × 9" Floor tile, beige w/brown streak-mottling, & black mastic	08-A	Garage area, SE, near side entry/exit	FT = Chrysotile - 5% Mastic = Chrysotile - 5%
08-B	9" × 9" Floor tile, beige w/brown streak-mottling, & black mastic	08-B	Garage area, SE, near side entry/exit	N/A
09-A	12" × 12" Floor tile, beige w/tan-grey mottle, & yellow-tan adhesive/mastic	09-A	Garage area, NE, near front entry/exit	FT = Chrysotile - 2% Mastic = NAD
09-B	12" × 12" Floor tile, beige w/tan-grey mottle, & yellow-tan adhesive/mastic	09-B	Garage area, NE, near front entry/exit	N/A, NAD
10-A	12" × 12" Floor tile, brown w/white-tan-grey mottle, & black mastic	10-A	2nd fl., S., hallway area	FT = Chrysotile - 5% Mastic = Chrysotile - 2%
10-B	12" × 12" Floor tile, brown w/white-tan-grey mottle, & black mastic	10-B	2nd fl., S., kitchen area	N/A
11-A	Vinyl sheet flooring, lt. grey mottle w/faux 9"×9" pattern	11-A	Main office area, lavatory	NAD
11-B	Vinyl sheet flooring, lt. grey mottle w/faux 9"×9" pattern	11-B	Main office area, lavatory	NAD
12-A	Vinyl sheet covering, countertops, grey w/white & dk. grey marbling, black felt backing, & adhesive	12-A	2nd fl., S., kitchen area	Vinyl Sheet = NAD Adhesive/Glue = NAD
12-B	Vinyl sheet covering, countertops, grey w/white & dk. grey marbling, black backing, & adhesive	12-B	2nd fl., S., kitchen area	NAD, NAD

Table 2
Homogeneous Materials Sample Locations and Results
Former Northfield Township Fire Department

HOMOGENEOUS AREAS		BULK SAMPLE LOCATIONS		ANALYTICAL
HA#	MATERIAL DESCRIPTION	SAMPLE #	SAMPLE LOCATION	PLM RESULTS
13-A	Vinyl sheet covering, countertop, off-white w/grey & black random “confetti” pattern, grey felt backing, & adhesive	13-A	2nd fl., SW, serving area	Vinyl Sheet = NAD Adhesive/Glue = NAD
13-B	Vinyl sheet covering, countertop, off-white w/grey & black random “confetti” pattern, grey felt backing, & adhesive	13-B	2nd fl., SW, serving area	NAD, NAD
14-A	Decorative wall panel, ¼” hardboard, lt. grey w/blue-grey streak pattern, & constr. Adhesive	14-A	Main office area, lavatory	Wall Panel = NAD Drywall = NAD Adhesive/Glue = NAD
14-B	Decorative wall panel, ¼” hardboard, lt. grey w/blue-grey streak pattern, & constr. Adhesive	14-B	Main office area, lavatory	NAD, NAD, NAD
15-A	4” Vinyl cove base, tan, and adhesive	15-A	Main office area, NE	Cove Base = NAD Adhesive/Glue - NAD
15-B	4” Vinyl cove base, tan, and adhesive	15-B	Main office area, E.	NAD, NAD
16-A	4” Vinyl cove base, white, and adhesive	16-A	Garage area, E., N. office, E. wall	Cove Base = NAD Adhesive/Glue = NAD
16-B	4” Vinyl cove base, white, and adhesive	16-B	Garage area, E., S. office, S. wall	NAD, NAD
17-A	Wallboard system (gypsum panel, joint-compound)	17-A	Main office area, NE, E.wall	Drywall = NAD Joint Compound = NAD
17-B	Wallboard system (gypsum panel, joint-compound)	17-B	Main office area, N., upper ceiling	NAD, NAD
18-A	Window glaze compound, off-white/lt. grey, brittle, chalky	18-A	2nd fl., NE exterior window area	NAD
18-B	Window glaze compound, off-white/lt. grey, brittle, chalky	18-B	Exterior garage area, NE	NAD
19-A	Refractory cement, grey, cementitious	19-A	Garage area, SW, upper W. wall	NAD
19-B	Refractory cement, grey, cementitious	19-B	2nd fl., NE	NAD

**Table 2
Homogeneous Materials Sample Locations and Results
Former Northfield Township Fire Department**

HOMOGENEOUS AREAS		BULK SAMPLE LOCATIONS		ANALYTICAL
HA#	MATERIAL DESCRIPTION	SAMPLE #	SAMPLE LOCATION	PLM RESULTS
20-A	Concrete masonry unit (CMU wall block), grey	20-A	Garage area, NE area	NAD
20-B	Concrete masonry unit (CMU wall block), grey	20-B	Garage area, SW area	NAD
21-A	Mortar joint, for CMU (HA-20)	21-A	Garage area, NE area	NAD
21-B	Mortar joint, for CMU (HA-20)	21-B	Garage area, SW area	NAD
22-A	HVAC duct vibration dampener, black vinyl-coated fabric	22-A	2nd fl., E.	NAD
22-B	HVAC duct vibration dampener, black vinyl-coated fabric	22-B	2nd fl., W.	NAD
23-A	Floor vapor barrier, black bituminous paper layer (underneath hardwood flooring)	23-A	2nd fl., NE	NAD
23-B	Floor vapor barrier, black bituminous paper layer (underneath hardwood flooring)	23-B	2nd fl., W.	NAD
24-A	4" Vinyl cove base, dk. grey, and adhesive	24-A	Garage area, SW, lavatory	Cove Base = NAD Adhesive/Glue = NAD
24-B	4" Vinyl cove base, dk. grey, and adhesive	24-B	Garage area, SW, lavatory	NAD, NAD
25-A	Vinyl sheet covering, tabletop & cabinet shelf liner, beige/tan sm. mosaic pattern, w/grey felt backing	25-A	2nd fl., S., kitchen area	Chrysotile - 15%
25-B	Vinyl sheet covering, tabletop & cabinet shelf liner, beige/tan sm. mosaic pattern, w/grey felt backing	25-B	2nd fl., S., kitchen area	N/A
26-A	Sink under-coating, textured, lt. lavender	26-A	2nd fl., S., kitchen area	Chrysotile - 5%
26-B	Sink under-coating, textured, lt. lavender	26-B	2nd fl., S., kitchen area	N/A

Table 2
Homogeneous Materials Sample Locations and Results
Former Northfield Township Fire Department

HOMOGENEOUS AREAS		BULK SAMPLE LOCATIONS		ANALYTICAL
HA#	MATERIAL DESCRIPTION	SAMPLE #	SAMPLE LOCATION	PLM RESULTS
27-A	Window gap insulation, fibrous batt w/paper & black coating	27-A	Garage area, NW	NAD
27-B	Window gap insulation, fibrous batt w/paper & black coating	27-B	Garage area, W.	NAD
28-A	Attic insulation, loose blown-in, cellulosic, lt. brown, fibrous	28-A	Main office area, above upper gypsum panel ceiling	NAD
28-B	Attic insulation, loose blown-in, cellulosic, lt. brown, fibrous	28-B	Main office area, above upper gypsum panel ceiling	NAD
28-C	Attic insulation, loose blown-in, cellulosic, lt. brown, fibrous	28-C	Main office area, above upper gypsum panel ceiling	NAD
29-A	Carpet adhesive, tan & mastic, black	29-A	Main office area, NE	Adhesive = NAD Mastic = Chrysotile 10%
29-B	Carpet adhesive, tan & mastic, black	29-B	Main office area, cent.	NAD, N/A
30-A	Carpet adhesive, yellow-tan	30-A	Garage area, W., N. office	NAD
30-B	Carpet adhesive, yellow-tan	30-B	Garage area, W., S. office	NAD
31-A	Floor leveling compound, grey, thin, w/residual adhesive & mastic	31-A	Main office area, cent.	Glue = NAD Leveling Compound = NAD Mastic = Chrysotile - 2%
31-B	Floor leveling compound, grey, thin, w/residual adhesive & mastic	31-B	Main office area, cent.	NAD, NAD, N/A
32-A	Residual floor mastic, black	32-A	Main office area, cent.	Chrysotile - 2%
32-B	Residual floor mastic, black	32-B	Main office area, cent.	N/A
33-A	Sub-layer vinyl sheet flooring, tan w/grey felt backing & adhesive (below HA-11)	33-A	Main office area, lavatory	Vinyl Sheet = NAD Glue = NAD

Table 2
Homogeneous Materials Sample Locations and Results
Former Northfield Township Fire Department

HOMOGENEOUS AREAS		BULK SAMPLE LOCATIONS		ANALYTICAL
HA#	MATERIAL DESCRIPTION	SAMPLE #	SAMPLE LOCATION	PLM RESULTS
33-B	Sub-layer vinyl sheet flooring, tan w/grey felt backing & adhesive (below HA-11)	33-B	Main office area, lavatory	NAD, NAD
34-A	Spray-foam sealant, yellow-orange	34-A	Garage area, S., upper wall hatches to office attic	NAD
34-B	Spray-foam sealant, yellow-orange	34-B	Garage area, S., upper wall hatches to office attic	NAD
35-A	Exterior, doorframe caulk, off-white, semi-flexible	35-A	SE doorway	NAD
35-B	Exterior, doorframe caulk, off-white, semi-flexible	35-B	NE doorway	NAD
36-A	Exterior, window lintel caulk, off-white	36-A	S. glass-block window area	NAD
36-B	Exterior, window lintel caulk, off-white	36-B	S. glass-block window area	NAD
37-A	Exterior, glass-block mortar joint, cementitious	37-A	S. glass-block window area	NAD
37-B	Exterior, glass-block mortar joint, cementitious	37-B	S. glass-block window area	NAD
38-A	Exterior, bulletin-board/notification panel frame caulk, grey	38-A	SE area	NAD
38-B	Exterior, bulletin-board/notification panel frame caulk, grey	38-B	SE area	NAD
39-A	Exterior, window-frame caulk, lt. grey, flexible	39-A	E. area (newer window system)	NAD
39-B	Exterior, window-frame caulk, lt. grey, flexible	39-B	E. area (newer window system)	NAD
40-A	Exterior, window-frame caulk, grey/tan, brittle	40-A	NE area (older window system)	Chrysotile - 2%

**Table 2
Homogeneous Materials Sample Locations and Results
Former Northfield Township Fire Department**

HOMOGENEOUS AREAS		BULK SAMPLE LOCATIONS		ANALYTICAL
HA#	MATERIAL DESCRIPTION	SAMPLE #	SAMPLE LOCATION	PLM RESULTS
40-B	Exterior, window-frame caulk, grey/tan, brittle	40-B	NW area (older window system)	N/A
41-A	Wallboard system (gypsum panel, joint-compound)	41-A	Garage area, N. office, W. wall	Wallboard System = NAD Joint Compound = NAD
41-B	Wallboard system (gypsum panel, joint-compound)	41-B	Garage area, S. office, S. wall	NAD, NAD
42-A	HVAC duct insulation, yellow fibrous matt w/grey plastic wrap	42-A	Garage area, E.-cent., above offices	NAD
42-B	HVAC duct insulation, yellow fibrous matt w/grey plastic wrap	42-B	Garage area, E.-cent., above offices	NAD
42-C	HVAC duct insulation, yellow fibrous matt w/grey plastic wrap	42-C	Garage area, E.-cent., above offices	NAD
43-A	Slate roofing shingles, grey, striated matrix	43-A	2nd fl., stored under stage	NAD
43-B	Slate roofing shingles, grey, striated matrix	43-B	2nd fl., stored under stage	NAD
44-A	Refractory compound, dk. grey	44-A	Garage area, W. upper W. wall, around metal duct	NAD
44-B	Refractory compound, dk. grey	44-B	Garage area, W. upper W. wall, around metal duct	NAD
45-A	Skim-coat plaster surfacing on CMU wall	45-A	Main office area, N. wall	Skim Coat Plaster/FC = NAD Plaster/BC = NAD
45-B	Skim-coat plaster surfacing on CMU wall	45-B	Main office area, N. wall	NAD, NAD
45-C	Skim-coat plaster surfacing on CMU wall	45-C	Main office area, N. wall	NAD, NAD
--	(1971 Bldg. Addition)			

Table 2
Homogeneous Materials Sample Locations and Results
Former Northfield Township Fire Department

HOMOGENEOUS AREAS		BULK SAMPLE LOCATIONS		ANALYTICAL
HA#	MATERIAL DESCRIPTION	SAMPLE #	SAMPLE LOCATION	PLM RESULTS
46-A	Wallboard system (gypsum panel, joint-compound)	46-A	SE office area, S. wall	Drywall = NAD Joint Compound = NAD
46-B	Wallboard system (gypsum panel, joint-compound)	46-B	Cent. office area, W. wall	NAD, NAD
47-A	Wall cavity insulation, pink fibrous batt w/paper layer & black coating	47-A	W. office area, W. wall	NAD
47-B	Wall cavity insulation, pink fibrous batt w/paper layer & black coating	47-B	W. office area, S. wall	NAD
48-A	1' x 1' Ceiling tile, adhered, w/groove pattern & brown adhesive	48-A	Cent. office area, above suspended ceiling system	Ceiling Tile = NAD Adhesive/Glue Pod = NAD
48-B	1' x 1' Ceiling tile, adhered, w/groove pattern & brown adhesive	48-B	NW office area, closet, above suspended ceiling system	NAD, NAD
49-A	Wall cavity insulation, yellow fibrous batt w/paper layer & black coating	49-A	W. office area, W. wall	NAD
49-B	Wall cavity insulation, yellow fibrous batt w/paper layer & black coating	49-B	W. office area, W. wall	NAD
50-A	Carpet adhesive, yellow-tan	50-A	W. office area, cent.	NAD
50-B	Carpet adhesive, yellow-tan	50-B	W. office area, cent.	NAD
51-A	Exterior, asphalt roofing shingles, w/grey grit	51-A	NE roof area	Asphalt Shingles - Grey = NAD Black Shingle = NAD
51-B	Exterior, asphalt roofing shingles, w/grey grit	51-B	E. roof area	NAD, NAD
52-A	Exterior, bituminous sheet roof under-layment	52-A	NE roof area	NAD
52-B	Exterior, bituminous sheet roof under-layment	52-B	E. roof area	NAD

**Table 2
Homogeneous Materials Sample Locations and Results
Former Northfield Township Fire Department**

HOMOGENEOUS AREAS		BULK SAMPLE LOCATIONS		ANALYTICAL
HA#	MATERIAL DESCRIPTION	SAMPLE #	SAMPLE LOCATION	PLM RESULTS
53-A	Exterior, wall panel sheathing, fibrous, brown	53-A	W. wall	NAD
53-B	Exterior, wall panel sheathing, fibrous, brown	53-B	S. wall	NAD
54-A	Exterior, tar-paper vapor barrier	54-A	W. wall	NAD
54-B	Exterior, tar-paper vapor barrier	54-B	S. wall	NAD
55-A	Exterior, window-frame caulk, off-white/lt. grey, semi-flexible	55-A	W. window area	NAD
55-B	Exterior, window-frame caulk, off-white/lt. grey, semi-flexible	55-B	W. window area	NAD

Key: NAD = No Asbestos Detected N/A = Not Analyzed

Shaded rows indicate materials that are assumed or tested positive for asbestos.

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
 Project : 75 Barker Rd., Whitmore Lake, MI.
 Project # :CI0044/1735



Report To:

Mr. Tyler Lenling
 TEK Environmental & Consulting Services, Inc.
 9263 E. M-36
 Whitmore Lake, MI 48189

ARI Report # 21-96510
 Date Collected: 10/06/21
 Date Received: 10/07/21
 Date Analyzed: 10/08/21
 Date Reported: 10/12/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 01 Cust. #: 01-A Material: Plaster-Board System w/Trowelled-On Texture Pattern Location: Garage Area, S Appearance: grey,fibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Hair - 2% Other - 98%
Lab ID #: 96510 - 01a Cust. #: 01-A Material: Drywall Location: Garage Area, S Appearance: white,fibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 96510 - 02 Cust. #: 01-B Material: Plaster-Board System w/Trowelled-On Texture Pattern Location: Garage Area, S Appearance: grey,fibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Hair - 1% Other - 99%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
 Project : 75 Barker Rd., Whitmore Lake, MI.
 Project # : CI0044/1735



Report To:

Mr. Tyler Lenling
 TEK Environmental & Consulting Services, Inc.
 9263 E. M-36
 Whitmore Lake, MI 48189

ARI Report # 21-96510
 Date Collected: 10/06/21
 Date Received: 10/07/21
 Date Analyzed: 10/08/21
 Date Reported: 10/12/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 02a Cust. #: 01-B Material: Drywall Location: Garage Area, S Appearance: white, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 96510 - 03 Cust. #: 01-C Material: Plaster-Board System w/Trowelled-On Texture Pattern Location: Garage Area, S Appearance: grey, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Hair - 2% Other - 98%
Lab ID #: 96510 - 03a Cust. #: 01-C Material: Drywall Location: Garage Area, S Appearance: white, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
 (734) 449-9990, Fax (734) 449-9991

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 04 Cust. #: 02-A Material: Pipe Straight Ins., Brown Paper Layer Location: Garage Area, S Appearance: brown, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 85% Other - 15%
Lab ID #: 96510 - 05 Cust. #: 02-B Material: Pipe Straight Ins., Brown Paper Layer Location: Garage Area, S Appearance: brown, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 85% Other - 15%
Lab ID #: 96510 - 06 Cust. #: 02-C Material: Pipe Straight Ins., Brown Paper Layer Location: Garage Area, S Appearance: brown, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 07 Cust. #: 03-A Material: HVAC Duct Ins., Red Fibrous w/Grey Plastic Wrap Location: Garage Area, E.-Center Appearance: orange, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 75% Other - 25%
Lab ID #: 96510 - 08 Cust. #: 03-B Material: HVAC Duct Ins., Red Fibrous w/Grey Plastic Wrap Location: Garage Area, E.-Center Appearance: orange, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 80% Other - 20%
Lab ID #: 96510 - 09 Cust. #: 03-C Material: HVAC Duct Ins., Red Fibrous w/Grey Plastic Wrap Location: Garage Area, E.-Center Appearance: orange, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 80% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 10 Cust. #: 04-A Material: 2'x4' SCP, Pinholes-Lg. Gouges Pattern Location: Main Office, Center Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 30% Other - 30%
Lab ID #: 96510 - 11 Cust. #: 04-B Material: 2'x4' SCP, Pinholes-Lg. Gouges Pattern Location: Main Office, W. Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 30% Other - 30%
Lab ID #: 96510 - 12 Cust. #: 05-A Material: 2'x4' SCP, Pinholes-Sm. Pockmarks Pattern Location: Main Office, Center Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 40% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 13 Cust. #: 05-B Material: 2'x4' SCP, Pinholes-Sm. Pockmarks Pattern Location: Main Office, Center Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 40% Other - 20%
Lab ID #: 96510 - 14 Cust. #: 06-A Material: 18"x36" CP, Fastened, Smooth Pattern Location: 2nd Floor, Center Appearance: brown, fibrous, homogenous Layer: of	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 96510 - 15 Cust. #: 06-B Material: 18"x36" CP, Fastened, Smooth Pattern Location: 2nd Floor, NE Appearance: brown, fibrous, homogenous Layer: of	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 16 Cust. #: 07-A Material: 9"x9" FT, Grey w/White & Black Streak Location: Garage Area, Lavatory Appearance: grey,fibrous,homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 2%	Other - 98%
Lab ID #: 96510 - 16a Cust. #: 07-A Material: Black Masic Location: Garage Area, Lavatory Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 17 Cust. #: 07-B Material: 9"x9" FT, Grey w/White & Black Streak Location: Garage Area, Lavatory Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 17a Cust. #: 07-B Material: Black Masic Location: Garage Area, Lavatory Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 18 Cust. #: 08-A Material: 9"x9" FT Beige w/Brown Streak-Mottling Location: Garage Area, SE, Near Side Entry/Exit Appearance: beige,fibrous,homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 5%	Other - 95%
Lab ID #: 96510 - 18a Cust. #: 08-A Material: Black Masic Location: Garage Area, SE, Near Side Entry/Exit Appearance: black,fibrous,homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 5%	Other - 95%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 19 Cust. #: 08-B Material: 9"x9" FT Beige w/Brown Yellow-Tan Adhesive Location: Garage Area, SE, Near Side Entry/Exit Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 96510 - 20 Cust. #: 09-A Material: 12"x12" FT, Beige w/tan Grey Mottle Location: Garage Area, NE, Near Front Entry/Exit Appearance: beige, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 2%	Other - 98%
Lab ID #: 96510 - 20a Cust. #: 09-A Material: Yellow -Tan Adhesive/Glue Location: Garage Area, NE, Near Front Entry/Exit Appearance: yellow, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 21 Cust. #: 09-B Material: 12"x12" FT, Beige w/tan Grey Mottle Location: Garage Area, NE, Near Front Entry/Exit Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 96510 - 21a Cust. #: 09-B Material: Yellow -Tan Adhesive/Glue Location: Garage Area, NE, Near Front Entry/Exit Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 22 Cust. #: 10-A Material: 12"x12" FT Brown w/White-Tan-Grey Location: 2nd Floor, S., Hallway Area Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 5%	Other - 95%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 22a Cust. #: 10-A Material: Black Masic Location: 2nd Floor, S., Hallway Area Appearance: black, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 2%	Other - 98%
Lab ID #: 96510 - 23 Cust. #: 10-B Material: 12"x12" FT Brown & Black Mastic Location: 2nd Floor, S., Kitchen Area Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 96510 - 24 Cust. #: 11-A Material: Vinyl Sheet Flooring, Lt. Grey Mottle /Lin. Location: Main Office Area, Lavatory Appearance: grey, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 10% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 25 Cust. #: 11-B Material: Vinyl Sheet Flooring, Lt. Grey Mottle /Lin. Location: Main Office Area, Lavatory Appearance: grey,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 10% Other - 80%
Lab ID #: 96510 - 26 Cust. #: 12-A Material: Vinyl Sheet Covering, Countertops, Grey Location: 2nd Floor, S., Kitchen Area Appearance: grey,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 96510 - 26a Cust. #: 12-A Material: Adhesive/Glue Location: 2nd Floor, S., Kitchen Area Appearance: clear,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 27 Cust. #: 12-B Material: Vinyl Sheet Covering, Countertops, Grey Location: 2nd Floor, S., Kitchen Area Appearance: grey, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 96510 - 27a Cust. #: 12-B Material: Adhesive/Glue Location: 2nd Floor, S., Kitchen Area Appearance: clear, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 28 Cust. #: 13-A Material: Vinyl Sheet Covering, Countertop, Off White Location: 2nd Floor, SW., Serving Area Appearance: beige, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Other - 60%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 28a Cust. #: 13-A Material: Adhesive/Glue Location: 2nd Floor, SW., Serving Area Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 29 Cust. #: 13-B Material: Vinyl Sheet Covering, Countertop, Off White Location: 2nd Floor, SW., Serving Area Appearance: beige,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 96510 - 29a Cust. #: 13-B Material: Adhesive/Glue Location: 2nd Floor, SW., Serving Area Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 30 Cust. #: 14-A Material: Decorative Wall Panel, 1/4 Hardboard Location: Main Office Area, Lavatory Appearance: brown, fibrous, nonhomogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 96510 - 30a Cust. #: 14-A Material: Drywall Location: Main Office Area, Lavatory Appearance: white, fibrous, nonhomogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 96510 - 30b Cust. #: 14-A Material: Adhesive/Glue Location: Main Office Area, Lavatory Appearance: yellow, nonfibrous, homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
 Project : 75 Barker Rd., Whitmore Lake, MI.
 Project # :CI0044/1735



Report To:

Mr. Tyler Lenling
 TEK Environmental & Consulting Services, Inc.
 9263 E. M-36
 Whitmore Lake, MI 48189

ARI Report # 21-96510
 Date Collected: 10/06/21
 Date Received: 10/07/21
 Date Analyzed: 10/08/21
 Date Reported: 10/12/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 31 Cust. #: 14-B Material: Decorative Wall Panel, 1/4 Hardboard Location: Main Office Area, Lavatory Appearance: brown, fibrous, nonhomogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 96510 - 31a Cust. #: 14-B Material: Drywall Location: Main Office Area, Lavatory Appearance: white, fibrous, nonhomogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 96510 - 31b Cust. #: 14-B Material: Adhesive/Glue Location: Main Office Area, Lavatory Appearance: yellow, nonfibrous, homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 32 Cust. #: 15-A Material: 4" Vinyl Cove Base, Tan Location: Main Office Area, NE Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 32a Cust. #: 15-A Material: Adhesive/Glue Location: Main Office Area, NE Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 33 Cust. #: 15-B Material: 4" Vinyl Cove Base, Tan Location: Main Office Area, NE Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 33a Cust. #: 15-B Material: Adhesive/Glue Location: Main Office Area, NE Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 34 Cust. #: 16-A Material: 4" Vinyl Cove Base, White Location: Garage Area, E., N. Office, E. Wall Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 34a Cust. #: 16-A Material: Adhesive/Glue Location: Garage Area, E., N. Office, E. Wall Appearance: yellow,nonfibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 35 Cust. #: 16-B Material: 4" Vinyl Cove Base, White Location: Garage Area, E., S. Office,S. Wall Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 35a Cust. #: 16-B Material: Adhesive/Glue Location: Garage Area, E., S. Office,S. Wall Appearance: white,nonfibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 36 Cust. #: 17-A Material: Wallboard System (Gypsum Panel) Drywall Location: Main Office Area NE, E. Wall Appearance: white,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Other - 90%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 36a Cust. #: 17-A Material: Joint Compound Location: Main Office Area NE, E. Wall Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 37 Cust. #: 17-B Material: Wallboard System (Gypsum Panel) Drywall Location: Main Office Area N, Upper Ceiling Appearance: white,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Other - 90%
Lab ID #: 96510 - 37a Cust. #: 17-B Material: Joint Compound Location: Main Office Area N, Upper Ceiling Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 38 Cust. #: 18-A Material: Window Glaze Compound, Off White/Lt. Grey Location: 2nd Floor, NE Ext. Window Area Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Wollastonite - 2% Other - 97%
Lab ID #: 96510 - 39 Cust. #: 18-B Material: Window Glaze Compound, Off White/Lt. Grey Location: Ext. Garage Area, NE Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Wollastonite - 2% Other - 96%
Lab ID #: 96510 - 40 Cust. #: 19-A Material: Refractory Cement, Grey, Cemetitious Location: Garage Area, SW, Upper W. Wall Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 41 Cust. #: 19-B Material: Refractory Cement, Grey, Cemetitious Location: Garage Area, SW, Upper W. Wall Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 42 Cust. #: 20-A Material: Concrete Masonry Unit (CMU Wall Block) Location: Garage Area, NE Area Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 43 Cust. #: 20-B Material: Concrete Masonry Unit (CMU Wall Block) Location: Garage Area, SW Area Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 44 Cust. #: 21-A Material: Mortar Joint, For CMU (HA-20) Location: Garage Area, NE Area Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 45 Cust. #: 21-B Material: Mortar Joint, For CMU (HA-20) Location: Garage Area, SW Area Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 46 Cust. #: 22-A Material: HVAC Duct Vibration Dampener Location: 2nd Floor, E. Appearance: black,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 47 Cust. #: 22-B Material: HVAC Duct Vibration Dampener Location: 2nd Floor, W. Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 20% Other - 80%
Lab ID #: 96510 - 48 Cust. #: 23-A Material: Fl. Vapor Barrier, (Underneath Hardwood Fl.) Location: 2nd Floor, NE Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 96510 - 49 Cust. #: 23-B Material: Fl. Vapor Barrier, (Underneath Hardwood Fl.) Location: 2nd Floor, W. Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 60% Other - 40%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 50 Cust. #: 24-A Material: 4" Vinyl Cove Base, Dk. Grey Location: Garage Area, SW Lavatory Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 50a Cust. #: 24-A Material: Adhesive/Glue Location: Garage Area, SW Lavatory Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 51 Cust. #: 24-B Material: 4" Vinyl Cove Base, Dk. Grey Location: Garage Area, SW Lavatory Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 51a Cust. #: 24-B Material: Adhesive/Glue Location: Garage Area, SW Lavatory Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 52 Cust. #: 25-A Material: Vinyl Sheet Covering, Tabletop & Cabinet Shelf Liner Location: 2nd Floor, S., Kitchen Area Appearance: beige,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 15%	Other - 85%
Lab ID #: 96510 - 53 Cust. #: 25-B Material: Vinyl Sheet Covering, Tabletop & Cabinet Shelf Liner Location: 2nd Floor, S., Kitchen Area Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 54 Cust. #: 26- Material: Sink Undercoating, Textured, Lt. Lavender Location: 2nd Floor, S., Kitchen Area Appearance: pink, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 5%	Cellulose - 5% Other - 90%
Lab ID #: 96510 - 55 Cust. #: 26-B Material: Sink Undercoating, Textured, Lt. Lavender Location: 2nd Floor, S., Kitchen Area Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 96510 - 56 Cust. #: 27-A Material: Window Gap Ins., Fibrous Batt w/paper Location: Garage Area, NW Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 15% Fiberglass - 70% Other - 15%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 57 Cust. #: 27-B Material: Window Gap Ins., Fibrous Batt w/paper Location: Garage Area, W Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 15% Fiberglass - 70% Other - 15%
Lab ID #: 96510 - 58 Cust. #: 28-A Material: Attic Ins, Loose Blow-In, Cellulosic Location: Mn. Office, Above Upper Gypsum Pane Ceiling Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 96510 - 59 Cust. #: 28-B Material: Attic Ins, Loose Blow-In, Cellulosic Location: Mn. Office, Above Upper Gypsum Pane Ceiling Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 60 Cust. #: 28-C Material: Attic Ins, Loose Blow-In, Cellulosic Location: Mn. Office, Above Upper Gypsum Pane Ceiling Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 96510 - 61 Cust. #: 29-A Material: Carpet Adhesive, Tan/Glue Location: Main Office Area, NE Appearance: yellow, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 61a Cust. #: 29-A Material: Mastic Location: Main Office Area, NE Appearance: black, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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 9263 E. M-36
 Whitmore Lake, MI 48189

ARI Report # 21-96510
 Date Collected: 10/06/21
 Date Received: 10/07/21
 Date Analyzed: 10/08/21
 Date Reported: 10/12/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 62 Cust. #: 29-B Material: Carpet Adhesive, Tan/Glue Location: Main Office Area, Cent. Appearance: yellow,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 62a Cust. #: 29-B Material: Mastic Location: Main Office Area, Cent. Appearance: Layer: 2 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 96510 - 63 Cust. #: 30-A Material: Carpet Adhesive, Yellow-Tan/Glue Location: Garage Area W., N. Office Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
 Project : 75 Barker Rd., Whitmore Lake, MI.
 Project # : CI0044/1735



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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 64 Cust. #: 30-B Material: Carpet Adhesive, Yellow-Tan/Glue Location: Garage Area W., N. Office Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 65 Cust. #: 31-A Material: Yellow Glue Location: Main Office Area, Cent. Appearance: yellow,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 65a Cust. #: 31-A Material: Floor Leveling Compound, Grey, Thin Location: Main Office Area, Cent. Appearance: grey,fibrous,homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Other - 98%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 65b Cust. #: 31-A Material: Mastic Location: Main Office Area, Cent. Appearance: black, fibrous, homogenous Layer: 3 of 3	Asbestos Present: YES Chrysotile - 2%	Other - 98%
Lab ID #: 96510 - 66 Cust. #: 31-B Material: Yellow Glue Location: Main Office Area, Cent. Appearance: yellow, nonfibrous, homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 66a Cust. #: 31-B Material: Floor Leveling Compound, Grey, Thin Location: Main Office Area, Cent. Appearance: grey, fibrous, homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Other - 98%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 66b Cust. #: 31-B Material: Mastic Location: Main Office Area, Cent. Appearance: Layer: 3 of 3	Asbestos Present: NOT ANALYZED	
Lab ID #: 96510 - 67 Cust. #: 32-A Material: Residual Floor Mastic, Black Location: Main Office Area, Cent. Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 2%	Other - 98%
Lab ID #: 96510 - 68 Cust. #: 32-B Material: Residual Floor Mastic, Black Location: Main Office Area, Cent. Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 69 Cust. #: 33-A Material: Sub-Layer Vinyl Sheet Fl., Tan w/Grey Felt Location: (Below HA-11) Main Office Area, Lav. Appearance: brown, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 5% Fiberglass - 5% Other - 90%
Lab ID #: 96510 - 69a Cust. #: 33-A Material: Glue Location: (Below HA-11) Main Office Area, Lav. Appearance: clear, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 70 Cust. #: 33-B Material: Sub-Layer Vinyl Sheet Fl., Tan w/Grey Felt Location: (Below HA-11) Main Office Area, Lav. Appearance: brown, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 5% Fiberglass - 5% Other - 90%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 70a Cust. #: 33-B Material: Glue Location: (Below HA-11) Main Office Area, Lav. Appearance: clear,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 71 Cust. #: 34-A Material: Spray-Foam Sealant, Yellow-Orange Location: Garage, S.-Upper Wall Hatches/Office Attic Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 72 Cust. #: 34-B Material: Spray-Foam Sealant, Yellow-Orange Location: Garage, S.-Upper Wall Hatches/Office Attic Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 73 Cust. #: 35-A Material: Ext., Dr Frame Clk, Off-White, Semi Flexible Location: SE Doorway Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 74 Cust. #: 35-B Material: Ext., Dr Frame Clk, Off-White, Semi Flexible Location: NE Doorway Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 75 Cust. #: 36-A Material: Ext., Window Lintel Caulk, Off-White Location: S. Glass-Block Window Area Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 76 Cust. #: 36-B Material: Ext., Window Lintel Caulk, Off-White Location: S. Glass-Block Window Area Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 77 Cust. #: 37-A Material: Ext., Glass Block Mortar Joint, Cementitious Location: S. Glass-Block Window Area Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 78 Cust. #: 37-B Material: Ext., Glass Block Mortar Joint, Cementitious Location: S. Glass-Block Window Area Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 79 Cust. #: 38-A Material: Ext. Bulletin-Board Panel Frame, Caulk Location: SE Area Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 80 Cust. #: 38-B Material: Ext. Bulletin-Board Panel Frame, Caulk Location: SE Area Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 81 Cust. #: 39-A Material: Ext., Window Frame Caulk, Lt. Grey, Flexible Location: E. Area (Newer Window System) Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 82 Cust. #: 39-B Material: Ext., Window Frame Caulk, Lt. Grey, Flexible Location: E. Area (Newer Window System) Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 83 Cust. #: 40-A Material: Ext., Window Frame Caulk, Grey/Tan Location: NE Area (Older Window System) Appearance: beige,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 2%	Other - 98%
Lab ID #: 96510 - 84 Cust. #: 40-B Material: Ext., Window Frame Caulk, Grey/Tan Location: NW Area (Older Window System) Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 85 Cust. #: 41-A Material: Wallboard System (Gypsum Panel) Drywall Location: Garage Area, N. Office, W. Wall Appearance: white, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 96510 - 85a Cust. #: 41-A Material: Joint Compound Location: Garage Area, N. Office, W. Wall Appearance: white, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 86 Cust. #: 41-B Material: Wallboard System (Gypsum Panel) Drywall Location: Garage Area, N. Office, W. Wall Appearance: white, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 86a Cust. #: 41-B Material: Joint Compound Location: Garage Area, N. Office, W. Wall Appearance: white, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 87 Cust. #: 42-A Material: HVAC Duct Ins., Yellow Fibrous Matt Location: Garage Area, E.-Center, Above Offices Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 80% Other - 20%
Lab ID #: 96510 - 88 Cust. #: 42-B Material: HVAC Duct Ins., Yellow Fibrous Matt Location: Garage Area, E.-Center, Above Offices Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 80% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 89 Cust. #: 42-C Material: HVAC Duct Ins., Yellow Fibrous Matt Location: Garage Area, E.-Center, Above Offices Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 80% Other - 20%
Lab ID #: 96510 - 90 Cust. #: 43-A Material: Slate Roofing Shingles, Grey, Straited Matrix Location: 2nd Floor, Stored Under Stage Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 91 Cust. #: 43-B Material: Slate Roofing Shingles, Grey, Straited Matrix Location: 2nd Floor, Stored Under Stage Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 92 Cust. #: 44-A Material: Refractory Compound, Drk. Grey Location: Garage, W. Upper W. Wall Around Metal D Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 93 Cust. #: 44-B Material: Refractory Compound, Drk. Grey Location: Garage, W. Upper W. Wall Around Metal D Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 94 Cust. #: 45-A Material: Skim-Coat Plaster Surfacing/FC Location: On CMU Wall; Main Office Area, N. Wall Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 94a Cust. #: 45-A Material: Plaster/BC Location: On CMU Wall; Main Office Area, N. Wall Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 96510 - 95 Cust. #: 45-B Material: Skim-Coat Plaster Surfacing/FC Location: On CMU Wall; Main Office Area, N. Wall Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 95a Cust. #: 45-B Material: Plaster/BC Location: On CMU Wall; Main Office Area, N. Wall Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
 Project : 75 Barker Rd., Whitmore Lake, MI.
 Project # :CI0044/1735



Report To:

Mr. Tyler Lenling
 TEK Environmental & Consulting Services, Inc.
 9263 E. M-36
 Whitmore Lake, MI 48189

ARI Report # 21-96510
 Date Collected: 10/06/21
 Date Received: 10/07/21
 Date Analyzed: 10/08/21
 Date Reported: 10/12/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 96 Cust. #: 45-C Material: Skim-Coat Plaster Surfacing/FC Location: On CMU Wall; Main Office Area, N. Wall Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 96a Cust. #: 45-C Material: Plaster/BC Location: On CMU Wall; Main Office Area, N. Wall Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 96510 - 97 Cust. #: 46-A Material: Wallboard System (Gypsum Panel) Drywall Location: SE Office Area, S. Wall Appearance: white,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 97a Cust. #: 46-A Material: Joint Compound Location: SE Office Area, S. Wall Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 98 Cust. #: 46-B Material: Wallboard System (Gypsum Panel) Drywall Location: Cent. Office Area, W. Wall Appearance: white,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 96510 - 98a Cust. #: 46-B Material: Joint Compound Location: Cent. Office Area, W. Wall Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 99 Cust. #: 47-A Material: Wall Cavity Ins., Pink Fibrous Batt w/Paper Location: W. Office Area, W. Wall Appearance: pink, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 70% Other - 20%
Lab ID #: 96510 - 100 Cust. #: 47-B Material: Wall Cavity Ins., Pink Fibrous Batt w/Paper Location: W. Office Area, S. Wall Appearance: pink, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 70% Other - 20%
Lab ID #: 96510 - 101 Cust. #: 48-A Material: 1'x1' CT, Adherd, w/Groove Pattern Location: Cent. Office Area, Above SC System Appearance: brown, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 90% Other - 10%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 101a Cust. #: 48-A Material: Brown Adhesive/Glue Pod Location: Cent. Office Area, Above SC System Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 96510 - 102 Cust. #: 48-B Material: 1'x1' CT, Adherd, w/Groove Pattern Location: NW Office Area, Closet, Above SC System Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 96510 - 102a Cust. #: 48-B Material: Brown Adhesive/Glue Pod Location: NW Office Area, Closet, Above SC System Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 103 Cust. #: 49-A Material: Wall Cavity Ins, Fibrous Batt w/Paper Layer Location: W. Office Area, W. Wall Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 70% Other - 20%
Lab ID #: 96510 - 104 Cust. #: 49-B Material: Wall Cavity Ins, Fibrous Batt w/Paper Layer Location: W. Office Area, W. Wall Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 70% Other - 20%
Lab ID #: 96510 - 105 Cust. #: 50-A Material: Carpet Adhesive, Yellow-Tan/Glue/Mastic Location: W. Office Area, Cent. Appearance: yellow, nonfibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 106 Cust. #: 50-B Material: Carpet Adhesive, Yellow-Tan/Glue/Mastic Location: W. Office Area, Cent. Appearance: yellow,nonfibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 96510 - 107 Cust. #: 51-A Material: Ext., Asphalt Roofing Shingles, w/Grey Location: NE Roof Area Appearance: black,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 30% Other - 70%
Lab ID #: 96510 - 107a Cust. #: 51-A Material: Black Shingle Location: NE Roof Area Appearance: black,fibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 70% Other - 30%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 108 Cust. #: 51-B Material: Ext., Asphalt Roofing Shingles, w/Grey Location: E. Roof Area Appearance: black, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 30% Other - 70%
Lab ID #: 96510 - 108a Cust. #: 51-B Material: Black Shingle Location: E. Roof Area Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 30% Other - 70%
Lab ID #: 96510 - 109 Cust. #: 52-A Material: Ext., Bituminous Sheet Roof Underlayment Location: NE Roof Area Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 20% Other - 60%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 110 Cust. #: 52-B Material: Ext., Bituminous Sheet Roof Underlayment Location: E. Roof Area Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 20% Other - 60%
Lab ID #: 96510 - 111 Cust. #: 53-A Material: Ext., Wall Panel Sheathing, Fibrous, Brown Location: W. Wall Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 96510 - 112 Cust. #: 53-B Material: Ext., Wall Panel Sheathing, Fibrous, Brown Location: S. Wall Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 113 Cust. #: 54-A Material: Ext., Tar Paper Vapor Barrier Location: W. Wall Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 96510 - 114 Cust. #: 54-B Material: Ext., Tar Paper Vapor Barrier Location: S. Wall Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 96510 - 115 Cust. #: 55-A Material: Ext., Window Frame Caulk, Off-White Location: W. Window Area Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 96510 - 116 Cust. #: 55-B Material: Ext., Window Frame Caulk, Off-White Location: W. Window Area Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: No Asbestos Observed	Other - 100%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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