



**REQUEST FOR PROPOSAL**

**STATE LAND BANK AUTHORITY**

**DEMOLITION AND ABATEMENT CONTRACTOR(S) FOR  
THREE (3) RESIDENTIAL PROPERTIES IN SCATTERED SITES IN MICHIGAN**

**RFP-CASE-21-007**

*Important Dates:*

<b>Event</b>	<b>Date</b>	<b>Time Due</b>	<b>Method of Communication</b>
RFP Release	6/4/2021		SIGMA, Website, direct email
Pre-Bid Meeting	No meeting		
Questions on RFP	6/14/2021	Noon	landbank@michigan.gov
Answers to Questions	6/15/2021	3 pm	SIGMA, website & email to individuals asking questions
RFP Response Due	6/21/2021	5 pm	landbank@michigan.gov
Estimated Contract Start	7/7/2021		

## **REMINDER**

Please check your submission to make sure you have included all of the information which is required in the Request for Proposal. In addition, please submit files as noted on the RFP cover page which include the following:

- Technical Submission (Section II-A) with Cover Sheet (Attachment A) and Signed Independent Price Determination Certificate (Attachment B)
- Price Proposal (Section II-B)

Submit separately marked electronic files of your Technical Submission and Price Proposal as noted on the RFP cover page. The State Land Bank Authority (the "SLBA") has no obligation to consider any Submission that is not received on time. **Submissions will only be accepted as noted on the RFP cover page.**

**RESPONDENT(S)S ARE RESPONSIBLE FOR ASSURING THAT THE FOLLOWING IDENTIFYING INFORMATION APPEARS IN THE FILE NAME OF YOUR SUBMISSION: "RFP-CASE-21-007 Price Proposal" and "RFP-CASE-21-007 Technical Submission."**

**The SLBA will not respond to telephone inquiries, or visitation by Respondent(s)s, or their representatives. Respondent(s)'s sole point of contact concerning the RFP is below and any communication outside of this process may result in disqualification.**

State Land Bank Authority  
PO Box 30766  
Lansing, Michigan 48909  
landbank@michigan.gov

## **ENVIRONMENTAL CONSULTANT FOR THIS PROJECT:**

TriTerra LLC  
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**REQUEST FOR PROPOSAL**  
**DEMOLITION AND ABATEMENT CONTRACTOR FOR**  
**THREE (3) RESIDENTIAL PROPERTIES IN SCATTERED SITES**  
**RFP-CASE-21-007**

This Request for Proposal (the "RFP") is issued by the State Land Bank Authority (the "SLBA"). The SLBA is the sole point of contact with regard to all bidding and contractual matters relating to the services described in this RFP. The SLBA is the only office authorized to change, modify, amend, alter, clarify, etc. the specifications, terms and conditions of this RFP and any contract(s) awarded as a result of this RFP (the "Contract"). The SLBA will remain the SOLE POINT OF CONTACT throughout the bidding process. ***The SLBA will not respond to telephone inquiries, or visitation by Respondent(s) or their representatives. Respondent(s)'s sole point of contact concerning the RFP is below and any communication outside of this process may result in disqualification.***

State Land Bank Authority  
PO Box 30766  
Lansing, Michigan 48909  
[landbank@michigan.gov](mailto:landbank@michigan.gov)

## SECTION I STATEMENT OF WORK

### A) PURPOSE AND BACKGROUND STATEMENT

The SLBA is the owner of three (3) properties located at scattered sites in Michigan (“the Premises”). The properties are all residential properties in poor condition.

Properties and Legal Descriptions:

- 408 Seneca Street, Mohawk, MI {Keweenaw County}
  - AB-11-2 LOT 2, BLOCK 11 SUPERVISOR'S PLAT OF THE VILLAGE OF FULTON
  - Property ID Number: 10152011002
- 2073 Williams, Burton, MI {Genesee County}
  - LOT 151 AND E 1/2 OF LOT 152 DURANT HEIGHTS
  - Property ID Number: 5932503090
- 1412 Morris, Lincoln Park, MI {Wayne County}
  - LOT 87 ALSO SLY 1/2 ADJ VAC ALLEY
  - Property ID Number: 45003090087000

It is the desire of the SLBA to abate, as required, and demolish all three structures. We intend to hire between one and three contractors to complete this project.

### B) SCOPE OF WORK

This RFP is open to all qualified abatement and/or demolition contractors who are capable and qualified to meet the objectives and requirements described in this document. Qualified DBE/MDE/WBE organizations are encouraged to respond. Respondent(s) must supply documentation supporting their qualifications for evaluation.

1. **Abatement and Demolition of Structure:** The Scope of Work (“Work”) for this RFP may include, but is not necessarily limited to:
  - a. **Security:** Provide site security for duration of project after notice to proceed is received.
  - b. **Mobilization:** Includes all labor, equipment, materials, and incidentals to mobilize to the project site to perform the work. It includes all supervision of successful Respondent(s) personnel, and office support. It includes project meetings, surveying, site security, temporary controls and utilities, pre-work submittals, preparation of all submittals including, the successful Respondent(s)'s Site Specific Work Plan and Health and Safety Plan (HASP), personal protective equipment, permits, disposal approvals, erosion controls, barricades, traffic control, trash disposal, cleaning, and demobilization. Total cost of this item shall not exceed four (4%) percent of the successful Respondent(s)'s overall base bid.
  - c. **Utilities:** The SLBA has not requested disconnection of gas, electric or any other utility service from these sites. The successful Respondent(s) will be responsible for confirming the status of all utilities and to have all utilities cut and removed from the site as required by regulation, local ordinance or, at a minimum, generally accepted methods. This may include well capping and proper closure of any on-site sewer systems or drainage systems as detailed in Phase I/II reports, or as found by successful Respondent(s). **The successful Respondent(s) is responsible for contacting Miss Dig prior to any demolition activity.**

- d. Asbestos Containing Materials: Includes all labor, equipment, materials, incidentals, transportation, and disposal fees for the pre-demolition abatement of asbestos containing materials. Successful Respondent(s) to submit Notification of Intent to Renovate/Demolish to EGLE and the MIOASHA Asbestos Program at the Michigan Department of Licensing and Regulatory Affairs (“LARA”), provide the SLBA with copy of notification and any subsequent revisions to notification.
  - i. The Pre-demolition survey reports from TriTerra LLC, Appendix C through E, identified all materials found on site. All must be addressed as part of abatement.
- e. Universal Waste: Include all labor, equipment, materials, and incidentals, transportation and disposal fees needed to manage Universal Waste and its disposal prior to demolition. Universal wastes include, but are not limited to, bulbs; ballasts; batteries; mercury containing/equipment; and electronic equipment.
  - i. The Pre-demolition survey reports from TriTerra LLC, Appendix C through E, identified all materials found on site. All must be addressed as part of abatement.
- f. Clearances: Coordinate visual and/or air clearance examinations through the SLBA’s environmental consultant. Any costs for failed examinations shall be deducted from the final payment to the successful Respondent(s)’s final invoice.
- g. Demolition: Includes all labor, equipment, materials, fees, permits and incidentals needed: to demolish building, flatwork, and below grade structures associated with the building (including basement, foundations, footings, sumps, pits, vaults etc.); transportation and disposal of all demolition debris; removal of all concrete and asphalt drives and parking areas on site; and utility disconnects, removal, abandonment, or protection of buried underground utilities as specified. Use of explosives is strictly prohibited. Do not burn demolished materials. Except for items or materials indicated to be reused, salvaged, or otherwise indicated to remain property of SLBA, demolished materials shall become the successful Respondent(s)'s property and shall be removed, recycled, or disposed from Project site in an appropriate and legal manner. Successful Respondent(s) will be required to provide water, application equipment and personnel for dust suppression during demolition activities.
- h. Site Restoration: Site restoration shall include general backfilling, leveling and compaction and the installation of topsoil, grass seed and straw. Procedures, methods, materials, and other information regarding excavation and backfill shall be included in the Project Work Plan developed by the successful Respondent(s). The following information regarding excavation and backfilling shall be included in the Project Work Plan, at a minimum: (1.) Project Schedule; (2.) List of Subcontractors; (3.) Description of the methods and equipment to be used for each related operation (i.e., excavation, transportation, sampling, etc.); (4.) Transportation company; (5.) Method to protect any storm sewers and conveyances during soil excavation in close proximity of the site; and (6.) Description of the means, methods, and procedures for site restoration.
  - i. Backfill material: The successful Respondent(s) shall submit data on proposed backfill materials (sand and gravel) to the SLBA for approval. This data shall include the source of backfill material; grain size analysis, including MDOT classification; and analytical results (including volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and Michigan metals) verifying that backfill material is uncontaminated. Testing shall be the responsibility of

the successful Respondent(s) and shall be performed at no additional cost to the SLBA.

- A. Satisfactory materials shall be MDOT Class II sand or MDOT Class III granular fill and shall be free of trash, debris, roots, and other organic matter. Native fill can be reused in the excavation from which it came, if determined by SLBA or its designee to be suitable. Any sampling, sample delivery, and laboratory analysis deemed necessary for reuse of native fill shall be the responsibility of the successful Respondent(s) and is incidental to the project.
  - B. Unsuitable materials
    - I. Contaminated soil includes, but is not limited to, soils that are visually or olfactory impacted. Any VOCs, SVOCs, PCBs, or other contaminants are detected in backfill material from an offsite location and/or if the SLBA or its designee detects any contamination through visual or olfactory senses, then this will constitute classification as "contaminated soil."
    - II. Unsuitable materials include the following materials: (1.) Soils that, when classified under ASTM D 2487 - Classification of Soils for Engineering Purposes, fall in the classification of Pt, OH, CH, MH, or OL; (2.) Soils that cannot be compacted sufficiently to achieve the density specified for the intended use; (3.) Soil with more than 10% organics; (4.) Soils that contain greater concentrations of chloride or sulfate ions or have a soil resistivity or pH less than the existing onsite soils; (5.) Topsoil; (6.) Slag; (7.) Crushed concrete; (8.) Rock; (9.) Fill with brick, block or concrete; and/or (10.) Fill with rocks larger than 4" diameter.
  - C. Analytical Reports: The successful Respondent(s) shall submit to the SLBA all analytical results of the backfill, waste characterization, and any other samples collected/required for the work.
- ii. Surface Grade: After demolition activities have been completed, all disturbed surfaces shall be graded, prior to surface restoration, so as to leave no ruts, pits, piles, or ridges. If is required, the successful Respondent(s) shall be responsible for settlement of fill over any fill areas and shall be required to repair any voids or holes that appear for a period of one year after final acceptance of work by the SLBA, at the successful Respondent(s)'s own expense. The finished grade shall be flush (+ or -3") with existing sidewalks which will remain immediately adjacent to the affected area is to be considered grade.
    - A. The successful Respondent(s) shall place 4-inches of topsoil throughout, Kentucky Bluegrass seed fertilize, and mulch. The topsoils shall be free of stones, stumps, lumps and similar objects larger than 2-inches in diameter and shall be raked out. The successful Respondent(s) shall apply starter type fertilizer at the rate recommended by the manufacturer. The successful Respondent(s) shall be required to place topsoil and seed, and provide any maintenance for a complete establishment of grass cover within one year of final acceptance, at successful Respondent(s)'s own expense.

- iii. Finish Grade: Finish grade shall match the pre-work grade at undisturbed areas and the perimeter of the site. The finish grade shall be approximately 2-inches below the pre-work grade at the center of the property with a gentle upward slope towards the perimeter of the property where the finish grade matches the preexisting grade. Grading shall be conducted as directed by the SLBA or its designee. All impacted area by site activities, including pavements, roads, vegetation, and all other disturbed or altered structures/features shall be restored to pre-work condition. The finished grade shall be flush (+ or -3") with existing sidewalks which will remain immediately adjacent to the affected area is to be considered grade.
  - A. The successful Respondent(s) shall place 4-inches of topsoil throughout. The topsoil shall be free of stones, stumps, lumps and similar objects larger than 2-inches in diameter, and shall be raked out.
  - B. The successful Respondent(s) shall leave in place soil erosion fencing upon completion in order to control spring runoff.
- iv. Roadway and Parking Areas: The successful Respondent(s) is required to repair, in-kind or better, any areas of the successful Respondent(s)'s access point, such as public roads, sidewalk or curbs, disturbed as a result of the successful Respondent(s)'s work or access.
- i. Demobilization: Includes all labor, equipment, materials, and incidentals to complete balance of the Work under the bidding documents including but not limited to: site demobilization including removing personnel, equipment, supplies, rubbish and incidentals from the project site.

### C) DELIVERABLES:

The successful Respondent(s) must submit the following documentation to the SLBA following the noted milestones. Prior to processing of final payment, all documents must be delivered to the SLBA.

1. Prior to work beginning: Project schedule; pre-work photos of site; project work plan; HASP; spill contingency plan; proposed disposal facilities and proposed disposal facility licenses
2. Prior to Abatement: Copies of all Abatement notification(s) to the State of Michigan
3. After Abatement: Copies of site/project manager's verification of the quantity and description of removed materials; Copies of all asbestos and hazardous materials waste manifests; passed visual and/or air clearance examination (to be conducted by SLBA's environmental consultant)
4. Prior To Demolition: Copies of all NESHAP notification(s); permit applications and permits; dust control and air monitoring plan; soil erosion and sedimentation control plan; utility disconnects applications and verifications; and Abandoned Well Plugging Record.
5. After Demolition: Copies of all asbestos, hazardous materials and demolition waste manifests; copies of daily site activity reports; photos of finished site; and backfill analytical report.

### D) QUALIFICATIONS

The Respondent(s) shall demonstrate by submitting documentation with their response to this RFP that they meet the following qualification criteria:

1. Hold a valid **State of Michigan Residential Builder or Maintenance Contractor license**.
2. Meet the insurance requirements listed in Section II, A. 10. Insurance.
3. Provide a list of similar projects that demonstrates a minimum of three (3) years' experience with demolitions similar to this project.
4. Provide three (3) references, include organization, contact person, and their phone number.
5. Be qualified, licensed and/or certified to handle noted wastes, asbestos and work in contact with potentially contaminated soils.
6. Able to certify all criteria listed on the Cover Sheet, Attachment A.
7. The SLBA Staff will review all public sites including, but not limited to, those listing debarred contractors for use of federal or state funds, licensing sites, OSHA violation sites and environmental violation sites, to verify qualifications applicable to this site and/or funding source.

#### **E) PRE-BID MEETING**

**A pre-bid meeting will not be held. Respondent(s) can visit the sites and view the property at their convenience.** Please notify SLBA of date(s) you will be on-site.

#### **F) RESPONDENT(S) RESPONSIBILITIES**

It is the responsibility of each Respondent(s), before submitting a bid, to:

1. Examine the RFP and associated documents thoroughly;
2. Visit the site and, if necessary, record conditions at the site (through logs/notes, photographs, video or any other means);
3. Study and correlate the Respondent(s)'s observations with the RFP documents;
4. Submit written questions or inquiries about the RFP documents or the Work; and
5. Account for all general, local and prevailing conditions at or near the site that may in any manner affect the cost, schedule, progress, performance or furnishing of the work.

#### **G) SITE INFORMATION**

The SLBA has conducted, and is providing in Attachment C through E, a Pre-Demolition Asbestos and Hazardous Material Survey on the subject property.

1. To the extent that any Respondent(s) considers that additional information is necessary for determining its bid, it is the responsibility of that Respondent(s) to request from the SLBA the necessary additional information. In the event the SLBA does not have the requested additional information, it shall be the responsibility of the Respondent(s), at the Respondent(s)'s sole cost, to undertake reasonable examinations of the site and any other pertinent available information and data that the Respondent(s) considers necessary for determining its bid.
2. The Respondent(s) awarded the contract shall be responsible for obtaining any lands, areas, properties, facilities, rights-of-way and easements, in addition to those furnished by the SLBA, that the Respondent(s) considers necessary for temporary facilities, storage, disposal of spoil or waste material or any other similar purpose. The SLBA does not assume any responsibility for site conditions at any lands, areas, properties, facilities, rights-of-way and easements obtained by any Respondent(s).

## **H) PERFORMANCE CONDITIONS AND REQUIREMENTS**

1. The Respondent(s) awarded the contract shall comply with all Executive Orders and applicable laws, including, but not limited to, laws affecting cost, schedule, progress, performance or furnishing of the Work. Examples of those laws include, but are not limited to, those relating to nondiscrimination in employment, protection of public and employee health and safety, environmental protection, building codes, fire protection, grading and drainage, use of explosives, vehicular traffic, restoration of lands and property under the control of the State or a political subdivision, taxes, permits and licensing. By way of example, but not exhaustive, all work must comply with the following regulatory requirements:
  - a. Federal Laws and Regulations
    - i. 40 CFR Parts 239 through 282 - Resource Conservation and Recovery Act (RCRA), as amended
    - ii. Public Law 91-596 - Occupational Safety and Health Act (OSHA) of 1970, as amended
    - iii. 29 CFR Part 1910.120 - Hazardous Waste Operations and Emergency Response (HAZWOPER), as amended
    - iv. 29 CFR Part 1926 - Safety and Health Regulations for Construction, as amended
    - v. 40 CFR Part 260 - Construction Hazardous Waste Management Systems
    - vi. 40 CFR Part 261 - General Identification and Listing of Hazardous Wastes
    - vii. 40 CFR Part 262 - Standards Applicable to Generators of Hazardous Wastes
    - viii. 40 CFR Part 263 - Standards Applicable to Transporters of Hazardous Wastes
    - ix. 40 CFR Part 264 - Standards for Hazardous Wastes TSDF SLBAs and Operators
    - x. 40 CFR Part 265 - Interim Standards for Hazardous Wastes TSDF SLBAs and Operators
    - xi. 40 CFR Part 270 - Hazardous Waste Permits
    - xii. 49 CFR Part 172 - Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, Training Requirements, and Security Plans
    - xiii. 49 CFR Part 173 - General Requirements for Shipments and Packaging
    - xiv. 49 CFR Part 174-77 - Transporter Requirements
    - xv. 49 CFR Part 178-79 - Container Specifications
  - b. State of Michigan Laws
    - i. Michigan Public Act 451, Part 201 - Environmental Remediation, as amended
    - ii. Michigan Public Act 451, Part 115 - Solid Waste Management as amended
    - iii. Michigan Public Act 451, Part 111 - Hazardous Waste Management, as amended
    - iv. Michigan Public Act 451, Part 121 - Liquid Industrial By-Products
    - v. Michigan Public Act 154 - Michigan Occupational Safety and Health Act (MIOSHA)
    - vi. Michigan Public Act 451 Part 91 – Soil Erosion and Sedimentation Control, as amended
    - vii. Michigan Public Act 174, Miss Dig Underground Facility Damage Prevention and Safety Act
  - c. Local Laws: City of Caspian and/or Crystal Falls and/or County of Iron.

2. **Permits:** The demolition permit shall be obtained through the local jurisdiction or State of Michigan. A copy is to be provided to the SLBA.
3. **Meetings:** *Pre-Demolition Conference:* The SLBA may schedule a pre-demolition conference to be attended by the SLBA, environmental consultant, and the successful Respondent(s) and its subcontractors, as applicable. When no organizational meeting is called, the successful Respondent(s), before beginning any work, must meet with the staff of the SLBA and arrange a work schedule for the project. Once the project has been started, the successful Respondent(s) must carry it to completion without delay. *Progress Meetings:* The SLBA may schedule progress meetings, in person or by phone conference, to be held whenever needed to supply information necessary to prevent job interruptions, to observe the work or to inspect completed work. The successful Respondent(s) must be represented at each progress meeting by persons with full authority to act for the successful Respondent(s) in regard to all portions of the Work.
4. **Soil Erosion:** With respect to any earth disturbance associated with this contract, the successful Respondent(s) shall comply with the Natural Resources and Environmental Protection Act; Soil Erosion and Sedimentation Control, 1994 PA 451 Part 91, as amended.
  - a. The successful Respondent(s) shall be responsible for all application fees and obtaining a soil erosion and sedimentation control (SESC) permit.
  - b. The successful Respondent(s) shall furnish, install, and maintain as long as necessary and remove when no longer required, all necessary engineering controls to prevent erosion and sedimentation of onsite soils in accordance with Part 91 of P.A. 451 and the SESC permit. The successful Respondent(s) is expected to leave any soil erosion fencing in place upon completion.
5. **Hazardous Material:** The successful Respondent(s) shall use, handle, store, dispose of, process, transport and transfer any material considered a hazardous material in accordance with all federal, State and local laws. If the successful Respondent(s) encounters material reasonably believed to be a hazardous material and which may present a substantial danger, the successful Respondent(s) shall immediately stop all affected work, give written notice to the SLBA of the conditions encountered, and take appropriate health and safety precautions.
6. **Subcontractors:** Each Respondent(s) shall include a list of subcontractors, if any are utilized, with their submission. The Respondent(s) shall provide licensing data for trades for which licensing is required and, if applicable, indicate minority, woman or handicapped status. If the SLBA objects, for good cause, to any listed subcontractor, the SLBA, before issuing an award, may request replacement of that subcontractor at no increase in contract price and/or contract time. In that event, the Respondent(s) shall provide a substitute subcontractor or the Respondent(s) itself, if qualified for the work involved. If the Respondent(s) declines, that Respondent(s) shall not be considered.
  - a. All subcontractors are subject to the same qualification process as the Respondent(s).
  - b. Any replacement or addition to listed subcontractor(s) shall be required to meet the requirements of the RFP documents. If the SLBA objects for good cause to any such newly listed subcontractor, the successful Respondent(s) shall provide a replacement subcontractor at no increase in contract price and/or contract time.

7. **Use of Premises:** The successful Respondent(s) shall confine its operations (including, but not limited to, construction equipment and laydown and storage) to the site and lands, areas, properties, facilities, rights-of-way and easements identified and permitted by the contract documents and shall not unreasonably encumber the Premises. The successful Respondent(s) shall be responsible for any damage to the Premises (including, but not limited to, damage to any real and personal property) and for any damage to any adjacent lands, areas, properties, facilities, rights-of-way and easements (including, but not limited to, damage to any real and personal property) resulting from the successful Respondent(s)'s operations. The successful Respondent(s) shall defend, indemnify and hold harmless the SLBA and its environmental consultant against all claims, as construed in adjacent lands, areas, properties, facilities, rights-of-way and easements (inclusive of real and personal property), including loss of use, to the extent resulting from the successful Respondent(s)'s operations.
- a. The successful Respondent(s) shall keep the Premises free from accumulations of waste materials, rubbish and other debris, and shall not remove, injure, cut, alter or destroy trees, shrubs, plants or grass, unless otherwise provided elsewhere in the contract documents. At the completion of the work, the successful Respondent(s) shall remove all obstructions, waste and surplus materials, rubbish, debris, tools and construction equipment and shall leave the site clean.
  - b. The successful Respondent(s) shall restore to pre-existing conditions all walks, roadways, paved areas and other real and personal property not designated for alteration by the contract documents. To the extent the successful Respondent(s) refuses, fails or neglects to replace all such altered premises and/or restore to its pre-existing condition any walk, roadway, paved or landscaped area and other property not designated for alteration by the contract documents, the successful Respondent(s) shall bear its proportionate share of the delay and costs resulting from the successful Respondent(s)'s refusal, failure or neglect to do so.
  - c. The successful Respondent(s) shall not subject any part of the work or adjacent property to stresses or pressures that will damage or endanger the work or adjacent property, or both.
  - d. Storage or sale of removed items or materials on-site will not be permitted without advance written approval from the SLBA.
  - e. The successful Respondent(s) is responsible for any and all actions necessary to remedy situations involving material spilled or leaked in transit, or mud or dirt tracked off the site. This includes trucks carrying imported fill or other materials to the site (i.e. dust generated from trucks entering the site on adjacent roads). Perform cleanup in accordance with all applicable federal, State, and local regulations at no additional cost to SLBA.
  - f. Reuse of Soil and/or Aggregates: Excavate, handle and/or stockpile any reused soil separately from all other materials. Provide each staging area with adequate thickness of polyethylene sheeting to completely cover all materials. Covers shall be large enough to cover the entire staging area when materials are stored. Arrange material stockpiles such that they can be covered and secured each day with polyethylene sheeting. In the event the stockpiles are arranged or sized such that they cannot be adequately covered, the successful Respondent(s) shall reconfigure them at its sole expense. Cover all reuse soil stockpiles left untouched for 8 hours with a secured polyethylene tarp.

8. **Reports:** The successful Respondent(s) shall maintain and make available to the SLBA and environmental consultant daily field reports recording the onsite labor force and equipment (successful Respondent(s) and subcontractors); materials/equipment received (at the site or at another location); visits by suppliers; significant in-progress and completed trade work within major areas; and other pertinent information. Such daily field reports shall be furnished by the successful Respondent(s) promptly to the SLBA and/or its environmental consultant upon their request, and shall be accepted for information only. Neither the SLBA nor its environmental consultant's review of any daily field report shall be construed as agreement with the information contained in any such daily field report.
9. **Emergencies:** In emergencies affecting the safety or protection of persons, the work or property at or adjacent to the site, the successful Respondent(s), without any special instruction or authorization from the SLBA, is obligated to act to prevent threatened damage, death, injury or loss. The successful Respondent(s) shall give the SLBA prompt written notice of any emergencies and any changes in the work resulting from the action taken. If the SLBA concurs, the SLBA will amend the contract documents to provide for those changes and, unless the emergency resulted in whole or in part from any act or omission within the control of the successful Respondent(s), will make any corresponding adjustment in contract price and/or contract time.
10. **Schedule:** A schedule of activities must be provided by the successful Respondent(s) after award of contract and prior to beginning activities on the site.
11. **Debris Disposal:** Off-site disposal of materials must be in State licensed locations or landfills. Follow all applicable requirements and regulations.
12. **Inspections:** Following abatement activities, the successful Respondent(s) shall contact the SLBA's environmental consultant for a visual and/or air clearance examination. Any costs associated with clearance failures shall be deducted from successful Respondent(s)'s invoice(s). The SLBA's environmental consultant shall be on site for the demolition of the structure and will provide written summary of demolition activities. It is the successful Respondent(s)'s responsibility to coordinate demolition with the consultant's availability.
13. **Signage and Safety:** The successful Respondent(s) must post appropriate signs to advise the project personnel and visitors of the limits of construction work areas, hardhat areas, excavations, asbestos abatement, construction parking and staging areas, etc. Advertising signage by successful Respondent(s)s, subcontractors, or suppliers is not allowed. The successful Respondent(s) must maintain safe and adequate pedestrian and vehicular access to fire hydrants, commercial and industrial establishments, churches, schools, parking lots, hospitals, fire and police stations and like establishments. The successful Respondent(s) must obtain written approval from the SLBA ten (10) calendar days before connecting to existing facilities or interrupting the services on site.
  - a. The successful Respondent(s) must furnish, install and maintain as long as necessary and remove when no longer required adequate barriers, warning signs or lights at all dangerous points throughout the work for protection of property, workers and the public.
  - b. Street Barricades: The successful Respondent(s) must erect and maintain all street barricades, signal lights and lane change markers during the periods that a traffic lane is closed for their operations. There must be full compliance with rules and ordinances respecting such street barricading and devices must be removed when hazard is no longer present.

14. **Temporary Fencing:** The successful Respondent(s) must entirely enclose the demolition activity area by means of woven wire or snow fence having minimum height of four feet if an open hole is left overnight. Gates must be provided at all points of access, as applicable. Gates must be closed and secured in place at all times when work is not in progress. The fence must be removed and grounds restored to original condition upon completion of the work.
15. **Changes in Scope of Work:** The SLBA is entitled to make changes within the general scope of work outlined in the RFP consisting of additions, deletions or other revisions in the specifications and/or drawings, any means and methods or any SLBA-furnished lands, equipment, materials or services, or directing acceleration of the work. Such changes will result in the release of an amendment to this RFP with applicable time extensions and changes in costs as deemed necessary.
16. **Underground Utilities:** The successful Respondent(s) shall comply with all laws concerning underground utilities, including but not limited to, Michigan Public Act 174, Miss Dig Underground Facility Damage Prevention and Safety Act. In addition, the successful Respondent(s) shall be responsible for immediately notifying the SLBA of any contact with or damage to underground utilities, and for the safety, protection of and repairing of any damage done to any work and any surface and subsurface facilities. The successful Respondent(s) shall bear an appropriate portion of the delay and costs relating to the obligations set forth in this paragraph except as outlined in PA 174, 460.728 Section 8.
17. **Request for Final Payment:** To receive final payment the successful Respondent(s) must have submitted and/or completed the following:
  - a. Complete a substantial completion punch list, if any, within the contract time and date fixed by the SLBA.
  - b. Submit all documentation outlined in Section I, C. Deliverables, above.
  - c. If applicable, the successful Respondent(s) must complete any identified incomplete or defective work to the satisfaction of the SLBA.
18. **Performance and Payment Bonds:** A performance and payment bond will be required for the full amount of the contract. Both the performance bond and payment bond must remain in effect from the date of Contract award until final completion of the Contract. The surety bonds required for a Contract will not be accepted by the SLBA unless the surety bonding company is listed in the current United States Government, Department of Treasury's, Listing of approved sureties (bonding/insurance companies), Department Circular 570. Copies of the current Circular listing may be obtained through the internet web site at [https://www.fiscal.treasury.gov/fsreports/ref/suretyBnd/c570\\_a-z.htm](https://www.fiscal.treasury.gov/fsreports/ref/suretyBnd/c570_a-z.htm).

## SECTION II SUBMISSION FORMAT

To be considered, each Respondent(s) must submit a COMPLETE submission in response to this RFP using the format specified. Respondent(s)'s submission must be submitted in the format outlined below. There should be no attachments, enclosures, or exhibits other than those required in the RFP or considered by the Respondent(s) to be essential to a complete understanding of the submission. Each section of the submission should be clearly identified with appropriate headings:

### A) SUBMISSION

1. Business Organization and History – State the full name, address, and phone and facsimile number of your organization and, if applicable, the branch office or other subordinate element that will perform, or assist in performing, the work hereunder. Indicate whether it operates as an individual, partnership, or corporation; if as a corporation, include the state in which it is incorporated. If appropriate, the submission must state whether the organization is licensed to operate in the State of Michigan. **Provide a copy of your State of Michigan Residential Builder License or Maintenance and Alteration License with Demolition classification.**
2. Statement of the Problem – State in succinct terms your understanding of SLBA's intent presented by this RFP.
3. Narrative – Include a narrative summary description of the proposed effort and of the services(s)/products(s) that will be delivered.
4. Technical Work Plans – Provide detailed information on the qualifications that your firm has to accomplish each of the areas in the Scope of Work.
5. Prior Experience – Describe the prior experience of your organization which you consider relevant to the successful accomplishment of the project defined in this RFP. Include sufficient detail to demonstrate the relevance of such relevant experience. Submissions submitted should include, in this Section, descriptions of qualifying experience to include project descriptions, costs, and starting and completion dates of projects successfully completed; also include the name, address, and phone number of the responsible official of the client organization who may be contacted. The SLBA may evaluate the Respondent(s)'s prior performance with the SLBA or the State of Michigan, and prior performance information may be a factor in the award decision.
6. Project Staffing – The Respondent(s) must be able to staff a project team which possesses talent and expertise in the field of the requirements of this RFP. Please provide a **brief** outline of qualifications and similar projects completed for each current staff member and their areas of expertise. Submit copies of any specialized training, certifications and current licenses for each staff member. Indicate which of these individuals you consider key to the successful completion of the work. Do not include any financials for the contemplated work within the Submission.
7. Subcontractors – Include a list of all subcontractors that may be engaged to supplement your work under a future contract; include firm name and address, contact person and complete description of work to be subcontracted. Include descriptive information

concerning subcontractors' organization and abilities. Also, the information provided in response to A-5 and A-6, above, should include detailed information about each potential subcontractor.

8. Financial Stability – Provide FY 2019 and 2020 Balance Sheets. Reviews will be made to reasonably ensure Respondent(s)'s financial position is such that it will continue to prosper as a business during the term of the contract, and beyond if appropriate, and have adequate financial resources to perform all contractual duties on a reimbursement basis.
9. Respondent(s)'s Authorized Expediter – Include the name and telephone number of person(s) in your organization authorized to expedite any proposed contract with the SLBA.
10. Bid Bond – The SLBA requires all Respondent(s) to submit a bid bond with their proposal.
11. Insurance – Provide a copy of your Certificate of Insurance including Commercial General Liability insurance, Automobile insurance, Workers Compensation insurance, and Errors and Omissions Liability insurance. All levels of insurance must meet, or exceed, the SLBA's contract requirements.
  - a) Commercial General Liability – Occurrence form, including coverage for bodily injury, personal injury, property damage (broad form), premises/operations, blanket contractual, and products/completed operations. Coverage shall be endorsed to include SLBA as additional insured for work performed by Contractor or for Contractor in accordance with this Agreement.

Minimum Limits:

    - \$1,000,000 per occurrence/\$2,000,000 general aggregate
    - \$2,000,000 aggregate for products and completed operations
    - \$1,000,000 personal and advertising injury
  - b) Automobile – Michigan no-fault coverage, and residual automobile liability, comprehensive form, covering owned, hired, and non-owned automobiles. Coverage shall be endorsed to include SLBA as additional insured for work performed by or for Contractor in accordance with this Agreement.

Minimum Limits:

    - No-fault coverages – statutory
    - \$500,000 per person/\$1,000,000 per accident – bodily injury
    - \$500,000 per occurrence – property damage **OR**
    - A combined single limit of \$1,000,000 per occurrence
  - c) Workers' Compensation – statutory:

Employer's Liability - \$100,000 each accident/\$100,000 disease – each employee; and

\$500,000 disease – policy limit.
12. Additional Information and Comments – Include any other information that is believed to be pertinent, but not specifically asked for elsewhere.

13. References – Provide a minimum of three references for each type of service outlined in the Scope of Work. Include contact name, company name, contact information and very brief description of the work completed.
14. Violations – Briefly list and describe any state or federal environmental or safety violations your firm has received in the past 5 years from State or Federal inspectors. Briefly summarize the nature of the violation, the current status of the violation and corrective measures taken to avoid future, similar violations.

## **B) PRICE PROPOSAL**

Provide a turnkey price for the project as outlined. The SLBA is exempt from federal excise tax, and state and local sales taxes. The Price Proposal should not include taxes. Costs for abatement and demolition should be presented separately.

Separate travel related expenses will not be accepted.

Subject to any agreed extension of the period for holding bids, bids shall remain valid for acceptance by the SLBA for ninety (90) calendar days after the date of bid opening. In addition, the SLBA expressly reserves the right, within the SLBA's sole discretion, to reject any or all bids, to waive any irregularities, to issue post-bid Addenda and rebid the work without re-advertising, to re-advertise for bids, to withhold the award for any reason the SLBA determines and/or to take any other appropriate action.

**THE PRICE PROPOSAL AND TECHNICAL PORTION MUST BE IDENTIFIED ACCORDING TO THE INSTRUCTIONS OF THIS RFP. Price proposal files will remain unopened until the Joint Evaluation Committee (the "JEC") has completed evaluation of the technical proposals.**

**Respondent(s) Please Note:** Rates quoted in response to this RFP are firm for ninety (90) calendar days after the date of bid opening. No price increase will be permitted during the contract awarded to the successful Respondent(s).

## **C) SUBMISSION**

Submit separately marked electronic files of your Technical Submission and Price Proposal as noted on the RFP cover page. The SLBA has no obligation to consider any Submission that is not timely received. **Submissions will only be accepted as noted on the RFP cover page.**

**Your files are limited to 15MB. You may upload more than one file for Price Proposal and/or Technical Submission in response to this RFP.**

**RESPONDENT(S)S ARE RESPONSIBLE FOR ASSURING THAT THE FOLLOWING IDENTIFYING INFORMATION APPEARS IN THE FILE NAME OF YOUR SUBMISSION: "RFP-CASE-21-007 Price Proposal" and "RFP-CASE-21-007 Technical Submission."**

**SECTION III  
RFP PROCESS AND TERMS AND CONDITIONS**

**A) QUESTIONS**

A pre-bid meeting will not be held. Questions from Respondent(s) concerning the specifications in this RFP must be received as noted on the RFP cover page.

Questions that are phoned, faxed or sent through regular mail will not be accepted. The SLBA has no obligation to respond to questions received after date noted on the RFP cover page.

**B) SUBMISSIONS**

To be considered, Respondent(s) must submit a complete response to this RFP, using the format provided in Section II of this RFP, as noted on the RFP cover page. No other distribution of submission is to be made by the Respondent(s).

The Cover Sheet must be **signed physically or electronically** by the Respondent's Authorized Signatory. The Cover Sheet must be the first page of the Technical Submission.

The proposal must include a statement as to the period during which it remains valid; this period must be at least ninety (90) days from the response date this RFP is due. The rates quoted in the Price Proposal must remain firm for the period indicated in Section II. All print and digital materials submitted become the property of the SLBA and will not be returned to the Respondent(s).

**C) ECONOMY OF PREPARATION**

Each submission should be prepared simply and economically, providing a straightforward, concise description of the Respondent's ability to meet the requirements of the RFP. Emphasis should be on completeness and clarity of content.

**D) SELECTION CRITERIA**

Responses to this RFP will be evaluated based upon a three-step selection process. The submission must address the requirements described in Section II of this RFP.

1) Step I – Initial Evaluation for Compliance

- a) *Submission Content* – SLBA staff will screen the submissions for technical compliance to include but not be limited to:
- Timely submission of the documentation.
  - Submission signed physically or electronically.
  - Submissions satisfy the form and content requirements of this RFP.

2) Step II – Criteria for Satisfactory Submissions

- a) During the second step of the selection process, submissions will be considered by a Joint Evaluation Committee (the "JEC") comprised of individuals selected by the SLBA. Only those submissions that satisfy the requirements described in this

RFP, as determined in the sole discretion of the JEC, will be considered for evaluation in Step II. The JEC reserves the right to request additional information from any Respondent(s).

- b) *Competence, Experience and Staffing Capacity* – The submission should indicate the ability of the Respondent(s) to meet the requirements of this RFP, especially the time constraints, quality, and recent projects similar to that described in this RFP. The submission should indicate the competence of the personnel whom the Respondent(s) intends to assign to the project, including education and experience, with particular reference to experience on projects similar to that described in this RFP and qualifications of Respondent(s)’s Project Manager and the Project Manager’s dedicated management time, as well as that of other key personnel working on this project.

		<b>Points Possible</b>
1.	Statement of Work	5
2.	Respondent(s) Information/Completeness	15
3.	Prior Experience	30
4.	Staffing	30
5.	Financial Stability & Insurance	20
<b>TOTAL</b>		<b>100</b>

- c) During the JEC’s review, Respondent(s)s may be required to make oral presentations of their proposals to the JEC. These presentations provide an opportunity for the Respondent(s)s to clarify the proposals. The SLBA will schedule these presentations, if required by the JEC.
- d) Only those proposals receiving a score of **75 or more** in the technical proposal evaluation will have their pricing evaluated to be considered for award.

3) Step III – Selection for Specific Projects

- a) Based on what is in the best interest of the SLBA, the SLBA will award the Contract considering value, quality, and the ability to meet the objectives of this RFP, of proposals that were approved as a result of this two-step evaluation process.
- b) The SLBA reserves the right to consider the economic impact on the State of Michigan when evaluating proposal pricing. This includes, but is not limited to: job creation, job retention, tax revenue implications, and other economic considerations.
- c) The award recommendation will be made to the responsive and responsible qualified Respondent(s) who offers the best value to the SLBA and the State of Michigan. Best value will be determined by the SLBA with the Respondent(s) meeting the minimum point threshold and offering the *best proposal that meets the objectives of the RFP*.

**E) RESPONDENT(S)'S COSTS**

The SLBA is not liable for any costs incurred by any Respondent(s) prior to signing of a Contract by all parties.

**F) TAXES**

The SLBA may refuse to qualify a Respondent who has failed to pay any applicable taxes or if the Respondent has an outstanding debt to the State of Michigan or the SLBA.

Except as otherwise disclosed in an exhibit to the submission, Respondent(s) certifies that all applicable taxes are paid as of the date the Respondent's Qualifications were submitted to the SLBA and the Respondent(s) owes no outstanding debt to the State of Michigan or the SLBA.

**G) CONFLICT OF INTEREST**

The Respondent(s) must disclose, in an exhibit to the submission, any possible conflicts of interest that may result from the award of a Contract or the services provided under a Contract.

Except as otherwise disclosed in the submission, the Respondent(s) affirms that to the best of its knowledge there exists no actual or potential conflict between the Respondent(s), the Respondent(s)'s project manager(s) or its family's business or financial interests ("Interests") and the services provided under a Contract. In the event of any change in either Interests or the services provided under a Contract, the Respondent(s) will inform the SLBA regarding possible conflicts of interest which may arise as a result of such change and agrees that all conflicts shall be resolved to the SLBA's satisfaction or the Respondent(s) may be disqualified from consideration under this RFP. As used in this Section, "conflict of interest" shall include, but not be limited to, the following:

- 1) Giving or offering a gratuity, kickback, money, gift, or anything of value to a SLBA official, officer, or employee with the intent of receiving a contract from the SLBA or favorable treatment under a Contract;
- 2) Having or acquiring at any point during the RFP process or during the term of any Contract, any contractual, financial, business or other interest, direct or indirect, that would conflict in any manner or degree with Respondent(s)'s performance of its duties and responsibilities to the SLBA under a Contract or otherwise create the appearance of impropriety with respect to the award or performance of a Contract; or
- 3) Currently in possession of or accepting during the RFP process or the term of any Contract anything of value based on an understanding that the actions of the Respondent(s) or its affiliates or Interests on behalf of the SLBA will be influenced.

**H) BREACH OF CONTRACT**

Except as otherwise disclosed in an exhibit to Respondent's submission, Respondent(s) are not in material default or breach of any contract or agreement that it may have with the State of Michigan or any of its departments, commissions, boards or agencies, or any other public body in the State of Michigan. Further, Respondent(s) represents and warrants that it has not been a party to any contract with the State of Michigan or any public body that was terminated within the previous five (5) years because the Respondent(s) failed to perform or otherwise breached an obligation of such contract.

**I) DISCLOSURE OF LITIGATION**

Except as otherwise disclosed in an exhibit to Respondent's submission, there is no criminal litigation, investigations or proceedings involving the Respondent(s) (and each Subcontractor, if Subcontractors will be used to provide the goods/services requested under this RFP) or any of the Respondent's officers or directors or any litigation or proceedings under the Sarbanes-Oxley Act. In addition, Respondents must disclose in the exhibit requested under this Section of the RFP any civil litigation, arbitration or proceeding to which the Respondent(s) (or, to the extent Respondent(s) is aware, any Subcontractor) is a party and which involves: (1) disputes that might reasonably be expected to adversely affect the viability or financial stability of the Respondent(s) (or Subcontractor); or (2) a claim or written allegation of fraud or breach of contract against Respondent(s) (or, to the extent Respondent(s) is aware, Subcontractor), by a governmental or public entity arising out of their business dealings with governmental or public entities. Details of any settlements which Respondent(s) is prevented from disclosing under the terms of the settlement may be annotated as such.

**J) FALSE INFORMATION**

If the SLBA determines that a Respondent(s) purposefully or willfully submitted false information in response to this RFP, the Respondent(s) will not be considered for an award and any resulting Contract that may have been executed may be terminated.

**K) DISCLOSURE**

All Respondents should be aware that submissions submitted to the SLBA in response to this RFP may be subject to disclosure under the provisions of Public Act 442 of 1976, as amended, known as the Freedom of Information Act ("FOIA"). Accordingly, confidential information should be excluded from Respondents' submissions. Respondents, however, are encouraged to provide sufficient information to enable the SLBA to determine the Respondent's qualifications and to understand or identify areas where confidential information exists and could be provided. The FOIA also provides for the complete disclosure of a Contract and any attachments or exhibits thereto.

**L) PRICES HELD FIRM**

LENGTH OF TIME PRICES ARE TO BE HELD FIRM: All rates quoted in Respondent's response to this RFP will be firm for at least ninety (90) days after the response date of this RFP submission. No price changes will be permitted. IN THE EVENT THAT PROPOSED CHANGES ARE NOT ACCEPTABLE TO THE SLBA, THE CONTRACT SHALL BE TERMINATED, AND THE MODIFIED CONTRACT SHALL BE SUBJECT TO COMPETITIVE BIDDING.

**M) CLARIFICATION/CHANGES IN THE RFP**

Changes made to the RFP as the result of responses made to qualifying questions or concerns will be posted through the SIGMA system. Respondent(s)s are encouraged to regularly check this site for changes or other information related to the RFP.

If the initial period does not produce a viable response, the SLBA may, at its discretion, extend the period until it receives a viable submission. Timelines will be moved to correspond to the accepted submission date. Notification of an extension will be made through SIGMA. The first qualifying submission that is received and accepted will end the extension period.

**N) ELECTRONIC BID RECEIPT**

**YOUR SUBMISSION MUST BE RECEIVED AS NOTED ON THE RFP COVER PAGE.** Respondent(s)s are responsible for timely submission of their documentation. THE SLBA HAS NO OBLIGATION TO CONSIDER ANY SUBMISSION THAT IS NOT RECEIVED BY THE APPOINTED DATE AND TIME.

**O) RESERVATION OF SLBA DISCRETION**

Notwithstanding any other statement in this RFP, the SLBA reserves the right to:

- 1) reject any and all submissions;
- 2) waive any errors or irregularities in the bidding process or in any submission;
- 3) rebid the project;
- 4) negotiate with any Respondent(s) for a reduced price, or for an increased price to include any alternates that the Respondent(s) may propose;
- 5) revise or reduce the scope of the project, and rebid or negotiate with any Respondent(s) regarding the revised project;
- 6) defer or abandon the project;
- 7) amend or revise the RFP; and/or
- 8) request clarification of information submitted and to request additional information of one or more Respondent(s)s.

The SLBA's decision is final and not subject to appeal. Any attempt by a Respondent(s), collaborating entity, or other party of interest to the project to influence the awards process, to appeal, and/or take any action, including, but not limited to, legal action, regarding the submission or awards process in general may result in the Respondent's disqualification and elimination from the award process.

**P) JURISDICTION**

The laws of the State of Michigan shall govern this Agreement. The Parties shall make a good faith effort to resolve any controversies that arise regarding this Agreement. If a controversy cannot be resolved, the Parties agree that any legal actions concerning this Agreement shall be brought in the Michigan Court of Claims or, as appropriate, the Ingham County Circuit Court in Ingham County, Michigan. By signing this Agreement, Respondent(s) acknowledges that it is

subject to the jurisdiction of this court and agrees to service by first class or express delivery wherever Contractor resides, in or outside of the United States.

**Q) ADDITIONAL CERTIFICATION**

Pursuant to Public Act 517 of 2012, an Iran linked business is not eligible to submit a submission on a request for qualifications, with a public entity.

Respondents must certify on the Cover Sheet that it is not an Iran-linked business as defined in MCL 129.312.

Failure to sign this certification will result in disqualification from consideration.

**ATTACHMENT A**

**Request for Proposal/Qualification Response Cover Sheet Form**

*(Attach as a cover sheet to your Technical Submission file)*

**DEMOLITION AND ABATEMENT CONTRACTOR**

**RFP-CASE-21-007**

**General Information:**

Firm Legal Name: \_\_\_\_\_ SIGMA ID #: \_\_\_\_\_

Firm's DBA (if any): \_\_\_\_\_

Firm's Address: \_\_\_\_\_

Firm's Telephone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Contact's Telephone #: \_\_\_\_\_

Contact's Email Address: \_\_\_\_\_

Name of Authorized Signatory for the firm: \_\_\_\_\_

Michigan Limited Liability Company                       Michigan Corporation

Other: \_\_\_\_\_

Check if firm qualifies as any of the following:  DBE     MDE     WBE

CERTIFICATIONS-Authorized Signatory to initial each of the following, as applicable:

\_\_\_\_\_ Respondent(s) certifies that it is not an Iran-linked business as defined in MCL 129.312.

\_\_\_\_\_ Respondent(s) certifies that taxes are paid to federal, state, and local jurisdictions as of this date.

\_\_\_\_\_ Respondent(s) certifies that owes no outstanding debt to the State of Michigan or SLBA.

\_\_\_\_\_ Respondent(s) certifies that: (check one)

- To the best of its knowledge, there exists no actual or potential conflict of interest between Respondent(s), Respondent(s)'s project manager(s) or its family's business or financial interests ("Interests") and the service provided under a potential Contract.
- That there is an actual or potential conflict which is explained in the submittal.

\_\_\_\_\_  
Signature of Authorized Signatory

Date: \_\_\_\_\_

\*Your SIGMA ID Number is located in your State of Michigan vendor file. If you are not currently registered as a vendor with the State of Michigan, you may go to: [www.michigan.gov/SIGMAVSS](http://www.michigan.gov/SIGMAVSS) and register. If you have any problems, please contact the SIGMA helpline at 1-800-856-6246.

**ATTACHMENT B**

**INDEPENDENT PRICE DETERMINATION AND  
PRICES HELD FIRM CERTIFICATION**

**INDEPENDENT PRICE DETERMINATION**

By submission of a proposal, the Respondent certifies, and in the case of a joint proposal, each party thereto certifies as to its own organization, that in connection with this proposal:

1. The prices in the proposal have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition as to any matter relating to such prices with any other Respondent or with any competitor;
2. Unless otherwise required by law, the prices which have been quoted in the proposal have not been knowingly disclosed by the Respondent and will not knowingly be disclosed by the Respondent(s) prior to award directly or indirectly to any other Respondent or to any competitor; and
3. No attempt has been made or will be made by the Respondent to induce any other person or firm to submit or not submit a proposal for the purpose of restricting competition.

Each person signing the proposal certifies that she/he:

- A) Is the person in the Respondent's organization responsible within that organization for the decision as to the prices being offered in the proposal and has not participated (and will not participate) in any action contrary to 1, 2, and 3 above; or
- B) Is not the person in the Respondent's organization responsible within that organization for the decision as to the prices being offered in the proposal but has been authorized, in writing, to act as agent for the persons responsible for such decision in certifying that such persons have not participated (and will not participate) in any action contrary to 1, 2, and 3 above.

A proposal will not be considered for award if this Attachment B has been altered so as to delete or modify 1 or 3, above. If 2, above, has been modified or deleted, the proposal will not be considered for award unless the Respondent provides, with this Attachment B, a signed statement which sets forth, in detail, the circumstances of the disclosure and the SLBA determines that such disclosure was not made for the purpose of restricting competition.

**PRICES HELD FIRM**

LENGTH OF TIME PRICES ARE TO BE HELD FIRM: All rates quoted in Respondent's response to this RFP will be firm for ninety (90) calendar days after the date of bid opening. No price changes will be permitted after award of the contract, other than those resulting from an agreed upon change in scope of work.

Signed: \_\_\_\_\_  
Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_

ATTACHMENT C

**PRE-DEMOLITION ASBESTOS AND HAZARDOUS  
MATERIALS SURVEY**

Conducted by TriTerra LLC

Date:

Address: 408 Seneca St, Mohawk MI



1305 S. Washington Avenue, Suite 102  
 Lansing, Michigan 48910  
 517-702-0470  
 Fax 517-702-0477  
 www.triterra.us

April 19, 2021  
 Triterra Project #: 21-2695

State Land Bank Authority  
 Attn: Linda Horak  
 P.O Box 30766  
 Lansing, Michigan 48909

**SUBJECT: Asbestos-Containing Materials Inspection and Hazardous Materials Survey  
 408 Seneca Street, Mohawk, Michigan 49950**

Dear Ms. Horak:

Triterra has completed an asbestos-containing materials (ACM) inspection and hazardous materials survey for the residence located at 408 Seneca Street in Mohawk, Michigan (the Property) to determine if any ACM or other hazardous non-ACM exist within the structure. This inspection was completed for State Land Bank Authority (the User) to ensure compliance with the OSHA Construction Standard for Asbestos (29 CFR 1926.1101) and the United States Environmental Protection Agency (USEPA) requirements for inspection of buildings prior to renovation or demolition under the National Emissions Standards for Hazardous Air Pollutants (NESHAP 40 CFR Part 61). This report outlines and interprets the results of these analyses. A description of the structure, inspection methods, results, and recommendations are provided herein.

**Building Description**

The Property includes a two-story residential house with a detached, single-car garage. The home consists of a wood-frame construction with a concrete foundation, wood siding, an asphalt shingle roof, and a crawlspace. Building materials therein, include; plaster walls and ceilings, linoleum and hardwood floorings, acoustical ceiling tile, and a gas furnace which is located in the kitchen. The detached garage was built on a concrete slab and has asphaltic siding and roofing. The garage was inaccessible during the inspection.

**Hazardous Materials Survey**

On April 1, 2021, Greg Ross of Triterra conducted a hazardous materials survey of the Property to identify potential polychlorinated biphenyl (PCB) and mercury containing equipment as well as containers that may contain hazardous or regulated wastes. Any potentially hazardous material identified is documented below:

<b>Material (hazardous component)</b>	<b>Quantity</b>	<b>Location(s)</b>
Refrigerator (refrigerant – HFC, CFCs, HCFCs)	1	Kitchen



### **ACM Inspection Methods**

Greg Ross of Triterra completed an ACM inspection of the structure on April 1, 2021. Mr. Ross is an accredited State Of Michigan/EPA Asbestos Building Inspector, certificate number A52547.

Building construction plans, diagrams, and/or User provided information were utilized to assign room/area designations so that all areas of the structure are identifiable for sample location purposes. Each room/area of the structure was then evaluated for suspect ACM. Areas that contain similar suspect ACM were grouped into a single Homogenous Area (a grouping of rooms/spaces containing the same material according to color, texture, and date of application).

Suspect materials were placed into three major categories: surfacing materials, thermal system insulation materials, and miscellaneous materials. Surfacing materials are sprayed-on or troweled-on (e.g. plaster, fireproofing, or acoustical materials). Thermal system insulation materials are used for heat insulation or condensation prevention (e.g. boiler coverings, pipe insulation, or roof drain insulation). Miscellaneous materials are any application that does not fall into the surfacing or thermal system insulation categories (e.g. floor tile, roofing, drywall, etc.).

Representative samples of each encountered suspect ACM were either collected for laboratory analysis or presumed to contain asbestos. Presumed asbestos-containing materials (PACM) are generally thermal system insulation and surfacing materials that have a high likelihood of containing greater than 1% asbestos, and therefore are not sampled. Each sample collected was containerized in double-layer, laboratory-provided, sampling bags. The collected samples were sent to EMSL Analytical, Inc. (EMSL) [Accreditation Number 101048-4] for analysis using polarized light microscopy (PLM). PLM is the most commonly used method for the analysis of bulk samples, using 10 to 400 times power magnification. PLM bulk sample analyses follow the EPA method of the Determination of Asbestos in Bulk Insulation Samples (EPA 600/M4-82-020). The laboratory results indicate the percentage and type of asbestos in the sample and the other fibrous or non-fibrous non-asbestos materials in the sample. Chain-of-custody documentation was followed throughout the sample collection, handling, and shipping to assure quality control requirements were met.

### **Inspection Results**

A total of 26 suspect ACM samples from 12 homogenous areas (HA) were analyzed for the presence of asbestos. The laboratory analytical results are presented in Attachment 1.

**Friable ACM** are defined as materials which contain 1 percent or greater asbestos that can be crushed, pulverized, or reduced to powder using hand pressure. No Friable ACM was identified during the inspection.

**Non-friable ACM** are defined as materials that cannot be crumbled, pulverized, or reduced to a powder by hand pressure. Non-friable ACM is separated into category I and category II non-friable ACM.

- Category I non-friable ACM is defined as packings, gaskets, resilient floor coverings, and asphalt roofing products containing 1 percent or greater asbestos. No Category I non-friable ACM was identified during the inspection.
  
- Category II non-friable ACM is defined as any other non-friable material containing 1 percent or greater asbestos, excluding category I non-friable ACM. No Category II non-friable ACM was identified during the inspection.

The materials sampled during the assessment are detailed in **Table 1**, attached, which includes material descriptions, locations, and asbestos content of the materials.

### **Conclusions/Recommendations**

Based on Triterra’s understanding of the demolition activities planned at the Property, no special precautions related to ACM need to be taken in this case. However, the hazardous non-asbestos items (refrigerator) should be properly disposed of/recycled prior to demolition. It should be noted that the interior of the garage was inaccessible during the inspection. The inspector noted that there only appeared to be wood stored inside. It is unlikely that additional suspect ACM are located inside the structure.

### **Disclaimer**

Destructive testing was completed in accessible areas of the structure and/or areas designated by the User throughout this inspection. If suspect ACMs are encountered during demolition activities for which no analytical data exists, Triterra recommends the material(s) remain undisturbed until the asbestos content of the material(s) is determined in accordance with USEPA and OSHA regulations. Quantities presented are meant as a guide and should not be used for bidding purposes without verification.

Triterra completed the work in general conformance with federal, state, and local requirements and made all appropriate inquiry consistent with good commercial or customary practice. Triterra assumes the information provided in this report and by the User and/or property owner is factual, complete, and correct. Triterra does not warrant that this report represents an exhaustive study of all possible environmental concerns associated with asbestos at the property. However, the items included in this report are believed to adequately address the client’s needs at this time.

This report was prepared exclusively for the State Land Bank Authority for the purposes as expressly stated. This report may be unsuitable for other uses, and reliance on its contents by anyone other than the User is done at the sole risk of that party. This report may not be reproduced, sold, or otherwise conveyed to another entity without prior written permission from Triterra.

ACM Inspection & Hazardous Materials Survey – 408 Seneca Street  
State Land Bank Authority – Linda Horak  
April 19, 2021



Should you have any questions or comments regarding this report, please feel free to contact the undersigned at (517) 702-0470.

Sincerely,



A handwritten signature in blue ink, appearing to read "Greg Ross".

Greg Ross  
Environmental Technician  
Michigan/EPA Certified Asbestos Inspector #A52547

A handwritten signature in blue ink, appearing to read "Alan Snell".

Alan Snell  
Project Geologist | Manager of Hazardous Materials  
Michigan/EPA Certified Asbestos Inspector #A47249

**Attachments:**



***TABLES***

**TABLE 1: ASBESTOS INSPECTION REPORT**

<b>ROOM #</b>	<b>MATERIAL #</b>	<b>MATERIAL DESCRIPTION</b>	<b>FLOOR</b>	<b>ROOM</b>	<b>LOCATION</b>	<b>CATEGORY</b>	<b>SAMPLE ID</b>	<b>ASBESTOS DETECTED</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>NOTES</b>
1	1	RED LINOLEUM FLOORING W/ LEVELER	1	FRONT ENTRY	FLOOR	MISC.	HA-1A HA-1B	NONE DETECTED	80	SF	
2	2	WHITE 12X12" CEILING TILE	1	KITCHEN	CEILING	MISC.	HA-2A	NONE DETECTED	210	SF	
2	3	PLASTER	1	KITCHEN	WALL + CEILING	SURFACING	HA-3A	<1% CHRYSOTILE	674	SF	
2	4	GRAY AND BLUE LINOLEUM FLOORING W/ SQUARE PATTERN	1	KITCHEN	FLOOR	MISC.	HA-4A HA-4B	NONE DETECTED	90	SF	
3	3	PLASTER	1	PANTRY	WALL + CEILING	SURFACING	HA-3B	<1% CHRYSOTILE	219	SF	UNDER STAIRWELL
4	2	WHITE 12X12" CEILING TILE	1	BEDROOM	CEILING	MISC.	HA-2B	NONE DETECTED	204	SF	
4	3	PLASTER	1	BEDROOM	WALL + CEILING	SURFACING	HA-3C	<1% CHRYSOTILE	668	SF	
4	5	BLUE LINOLEUM FLOORING	1	BEDROOM	FLOOR	MISC.	HA-5A HA-5B	NONE DETECTED	204	SF	
5	3	PLASTER	1	STAIRWELL	WALL + CEILING	SURFACING	HA-3D	<1% CHRYSOTILE	300	SF	
6	3	PLASTER	2	BEDROOM	WALL + CEILING	SURFACING	HA-3E HA-3F	<1% CHRYSOTILE	674	SF	
7	3	PLASTER	2	BEDROOM	WALL + CEILING	SURFACING	HA-3G	<1% CHRYSOTILE	640	SF	
8	6	WINDOW GLAZING	1	EXTERIOR	WINDOW	MISC.	HA-6A THRU HA-6C	NONE DETECTED			
8	7	FIBERBOARD SIDING	1	EXTERIOR	EXTERIOR WALL	MISC.	HA-7A HA-7B	NONE DETECTED			
8	8	TAR PAPER	1	EXTERIOR	BEHIND SIDING	MISC.	HA-8A HA-8B	NONE DETECTED			
8	9	SHINGLE & TAR FELT ROOFING	1	EXTERIOR	ROOF	MISC.	HA-9	NONE DETECTED			HOUSE ROOF
8	10	SHINGLE & TAR FELT ROOFING	1	EXTERIOR	ROOF	MISC.	HA-10	NONE DETECTED			PORCH ROOF
9	11	ASPHALTIC SIDING	1	EXTERIOR	EXTERIOR WALL	MISC.	HA-11	NONE DETECTED			GARAGE SIDING
9	12	SHINGLE ROOFING	1	EXTERIOR	ROOF	MISC.	HA-12	NONE DETECTED			GARAGE ROOF

NOTES: BOLD = ASBESTOS-CONTAINING MATERIAL (ACM) SF = SQUARE FT LF = LINEAR FT MATERIALS WITH <1% ASBESTOS ARE NOT CLASSIFIED AS ASBESTOS-CONTAINING MATERIALS

***ATTACHMENT 1***

***EMSL ANALYTICAL RESULTS AND  
CHAIN OF CUSTODY DOCUMENTATION***



# EMSL Analytical, Inc.

15111 Northville Rd Plymouth, MI 48170

Tel/Fax: (734) 668-6810 / (734) 668-8532

<http://www.EMSL.com> / [annarborlab@emsl.com](mailto:annarborlab@emsl.com)

EMSL Order: 082100784

Customer ID: TRIA25

Customer PO:

Project ID:

**Attention:** Greg Ross  
Triterra  
1305 S. Washington Ave.  
Ste. 102  
Lansing, MI 48910

**Project:** 21-2695

**Phone:** (517) 702-0470

**Fax:**

**Received Date:** 04/05/2021 9:15 AM

**Analysis Date:** 04/08/2021

**Collected Date:**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
HA-1A <small>082100784-0001</small>	Flooring	Black Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
HA-1B-Flooring <small>082100784-0002</small>	Flooring	Red/Black Fibrous Heterogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
HA-1B-Leveler <small>082100784-0002A</small>	Flooring	Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
HA-2A <small>082100784-0003</small>	Ceiling Tile	Brown/White Fibrous Heterogeneous	97% Cellulose	3% Non-fibrous (Other)	None Detected
HA-2B <small>082100784-0004</small>	Ceiling Tile	Brown/White Fibrous Heterogeneous	97% Cellulose	3% Non-fibrous (Other)	None Detected
HA-3A <small>082100784-0005</small>	Plaster	Gray Fibrous Homogeneous	7% Cellulose	93% Non-fibrous (Other)	None Detected
HA-3B <small>082100784-0006</small>	Plaster	Gray Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	<1% Chrysotile
HA-3C <small>082100784-0007</small>	Plaster	Gray Fibrous Homogeneous	7% Cellulose	93% Non-fibrous (Other)	None Detected
HA-3D <small>082100784-0008</small>	Plaster	Gray Fibrous Homogeneous	4% Cellulose	96% Non-fibrous (Other)	<1% Chrysotile
HA-3E <small>082100784-0009</small>	Plaster	Gray Fibrous Homogeneous	4% Cellulose	96% Non-fibrous (Other)	None Detected
HA-3F <small>082100784-0010</small>	Plaster	Gray Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
HA-3G <small>082100784-0011</small>	Plaster	Gray Fibrous Homogeneous	6% Cellulose	94% Non-fibrous (Other)	None Detected
HA-4A <small>082100784-0012</small>	Flooring	Brown/Gray Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
HA-4B <small>082100784-0013</small>	Flooring	Brown/Gray Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
HA-5A <small>082100784-0014</small>	Flooring	Red/Black/Blue Fibrous Heterogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
HA-5B <small>082100784-0015</small>	Flooring	Red/Black/Blue Fibrous Heterogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected

Initial report from: 04/08/2021 16:02:56



# EMSL Analytical, Inc.

15111 Northville Rd Plymouth, MI 48170

Tel/Fax: (734) 668-6810 / (734) 668-8532

<http://www.EMSL.com> / [annarborlab@emsl.com](mailto:annarborlab@emsl.com)

**EMSL Order:** 082100784  
**Customer ID:** TRIA25  
**Customer PO:**  
**Project ID:**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
HA-6A <small>082100784-0016</small>	Glazing	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-6B <small>082100784-0017</small>	Glazing	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-6C <small>082100784-0018</small>	Glazing	Gray Non-Fibrous Homogeneous	3% Wollastonite	97% Non-fibrous (Other)	<1% Chrysotile
HA-7A <small>082100784-0019</small>	Fiberboard	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
HA-7B <small>082100784-0020</small>	Fiberboard	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
HA-8A <small>082100784-0021</small>	Tar Paper	Black Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
HA-8B <small>082100784-0022</small>	Tar Paper	Black Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
HA-9-Shingle <small>082100784-0023</small>	Roofing	Gray/Red/Black Fibrous Heterogeneous	18% Cellulose	82% Non-fibrous (Other)	None Detected
HA-9-Tar Felt <small>082100784-0023A</small>	Roofing	Black Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
HA-10-Shingle <small>082100784-0024</small>	Roofing	Red/Black/Green Fibrous Heterogeneous	18% Cellulose	82% Non-fibrous (Other)	None Detected
HA-10-Tar Felt <small>082100784-0024A</small>	Roofing	Black Non-Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
HA-11 <small>082100784-0025</small>	Siding	Gray/Black Fibrous Heterogeneous	35% Cellulose	65% Non-fibrous (Other)	None Detected
HA-12-Shingle A <small>082100784-0026</small>	Roofing	Gray/Red/Black Fibrous Heterogeneous	16% Cellulose	84% Non-fibrous (Other)	None Detected
HA-12-Shingle B <small>082100784-0026A</small>	Roofing	Red/Black Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected



# EMSL Analytical, Inc.

15111 Northville Rd Plymouth, MI 48170

Tel/Fax: (734) 668-6810 / (734) 668-8532

<http://www.EMSL.com> / [annarborlab@emsl.com](mailto:annarborlab@emsl.com)

**EMSL Order:** 082100784

**Customer ID:** TRIA25

**Customer PO:**

**Project ID:**

Analyst(s)

*Conner Frymier (26)*

*Waverly Ferguson (4)*

Ryan Shannon, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Plymouth, MI NVLAP Lab Code 101048-4

Initial report from: 04/08/2021 16:02:56



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Asbestos Chain of Custody

## EMSL Order Number (Lab Use Only):

082100784

PHONE:  
FAX:

Company Name : Triterra		EMSL Customer ID:	
Street: 1305 S. Washington Avenue, Suite 102		City: Lansing	State/Province: MI
Zip/Postal Code: 48910	Country: United States	Telephone #: 517.702.0470	Fax #: 517.702.0477
Report To (Name): Greg Ross		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Email Address: Greg.ross@triterra.us		Purchase Order:	
Project Name/Number: 21-2695		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: Michigan		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

EMSL-Bill to:  Same  Different - If Bill to is Different note instructions in Comments\*\*  
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options\* - Please Check

3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week

\*For TEM Air 3 hr through 6 hr, please call ahead to schedule. \*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

<b>PCM - Air</b> <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA <b>PLM - Bulk (reporting limit)</b> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NYS 198.8 SOF-V <input type="checkbox"/> NIOSH 9002 (<1%)	<b>TEM - Air</b> <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 <b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 <b>TEM - Water: EPA 100.2</b> Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	<b>TEM- Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) <b>Soil/Rock/Vermiculite</b> <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<1%) <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%) <input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%) <input type="checkbox"/> TEM Qualitative via Filtration Prep <input type="checkbox"/> TEM Qualitative via Drop Mount Prep <input type="checkbox"/> Cincinnati Method EPA 600/R-04/004 - PLM/TEM (BC only) Other: <input type="checkbox"/>
---	--	---

Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples):  0.8µm  0.45µm

Samplers Name: Greg Ross Samplers Signature: [Signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
HA-1A	Red flooring	1	4/17/21
HA-1B	" "	1	
HA-2A	Ceiling tile	2	
HA-2B	" "	2	
HA-3A	Plaster	3	

Client Sample # (s):	-	Total # of Samples:	26
Relinquished (Client):	<u>Greg Ross</u>	Date:	<u>4/2/21</u>
Received (Lab):	<u>[Signature]</u>	Date:	<u>4/5/21</u>
Comments/Special Instructions:	<u>2nd date w/ 04/11 4/14</u>		



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

**Asbestos Chain of Custody**  
**EMSL Order Number** (Lab Use Only).

082100784

PHONE:  
FAX:

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
HA-3B	Plaster	3	4/1/21
HA-3C	"	3	
HA-3D	"	3	
HA-3E	"	3	
HA-3F	"	3	
HA-3G	"	3	
HA-4A	Blue / grey flooring	4	
HA-4B	"	4	
HA-5A	Blue flooring	5	
HA-5D	" "	5	
HA-6A	Window Glazing	6	
HA-6B	"	6	
HA-6C	"	6	
HA-7A	Fiberglass	7	
HA-7B	"	7	
HA-8A	Tar paper	8	
HA-8B	"	8	
HA-9	Roofing	9	
HA-10	Roofing	10	
HA-11	Siding	11	
HA-12	Roofing	12	

\*Comments/Special Instructions:

WE

ERX  
7901 0424 4830  
Page 2 of 2

4/5/21

9-15

ATTACHMENT D

**PRE-DEMOLITION ASBESTOS AND HAZARDOUS  
MATERIALS SURVEY**

Conducted by TriTerra LLC

Date:

Address: 2073 Williamson, Burton MI



1305 S. Washington Avenue, Suite 102  
 Lansing, Michigan 48910  
 517-702-0470  
 Fax 517-702-0477  
 www.triterra.us

April 19, 2021  
 Triterra Project #: 21-2694

State Land Bank Authority  
 Attn: Linda Horak  
 P.O Box 30766  
 Lansing, Michigan 48909

**SUBJECT: Asbestos-Containing Materials Inspection and Hazardous Materials Survey  
 2073 Williamson Avenue, Burton, Michigan 48529**

Dear Ms. Horak:

Triterra has completed an asbestos-containing materials (ACM) inspection and hazardous materials survey for the residential property located at 2073 Williamson Avenue in Burton, Michigan (the Property) to determine if any ACM or other hazardous non-ACM exist within the structures. This inspection was completed for State Land Bank Authority (the User) to ensure compliance with the OSHA Construction Standard for Asbestos (29 CFR 1926.1101) and the United States Environmental Protection Agency (USEPA) requirements for inspection of buildings prior to renovation or demolition under the National Emissions Standards for Hazardous Air Pollutants (NESHAP 40 CFR Part 61). This report outlines and interprets the results of these analyses. A description of the structure, inspection methods, results, and recommendations are provided herein.

**Building Description**

The Property includes a single-story residential house and two wooden sheds. The wood-frame home has a concrete block foundation, metal siding over wood, an asphalt-shingle roof, and a crawlspace. Building materials therein, include; drywall walls and ceilings, various types of flooring (hardwood, carpet, linoleum, vinyl-composition tile), and blown-in cellulose insulating materials. Other building materials/components include acoustical ceiling tile and a gas furnace which is located in the living room. The two sheds located behind the home were built on concrete slabs and both have wood siding and asphalt shingle roofs.

**Hazardous Materials Survey**

On March 17, 2021, Greg Ross of Triterra conducted a hazardous materials survey of the Property to identify potential polychlorinated biphenyl (PCB) and mercury containing equipment as well as containers that may contain hazardous or regulated wastes. Any potentially hazardous material is documented below:

Material (hazardous component)	Quantity	Location
Thermostat (mercury)	1	Living Room



## ACM Inspection Methods

Greg Ross of Triterra completed an ACM inspection of the structure on March 17, 2021. Mr. Ross is an accredited State Of Michigan/EPA Asbestos Building Inspector, certificate number A52547.

Building construction plans, diagrams, and/or User provided information were utilized to assign room/area designations so that all areas of the structures are identifiable for sample location purposes. Each room/area of the structures was then evaluated for suspect ACM. Areas that contain similar suspect ACM were grouped into a single Homogenous Area (a grouping of rooms/spaces containing the same material according to color, texture, and date of application).

Suspect materials were placed into three major categories: surfacing materials, thermal system insulation materials, and miscellaneous materials. Surfacing materials are sprayed-on or troweled-on (e.g. plaster, fireproofing, or acoustical materials). Thermal system insulation materials are used for heat insulation or condensation prevention (e.g. boiler coverings, pipe insulation, or roof drain insulation). Miscellaneous materials are any application that does not fall into the surfacing or thermal system insulation categories (e.g. floor tile, roofing, drywall, etc.).

Representative samples of each encountered suspect ACM were either collected for laboratory analysis or presumed to contain asbestos. Presumed asbestos-containing materials (PACM) are generally thermal system insulation and surfacing materials that have a high likelihood of containing greater than 1% asbestos, and therefore are not sampled. Each sample collected was containerized in double-layer, laboratory-provided, sampling bags. The collected samples were sent to EMSL Analytical, Inc. (EMSL) [Accreditation Number 101048-4] for analysis using polarized light microscopy (PLM). PLM is the most commonly used method for the analysis of bulk samples, using 10 to 400 times power magnification. PLM bulk sample analyses follow the EPA method of the Determination of Asbestos in Bulk Insulation Samples (EPA 600/M4-82-020). The laboratory results indicate the percentage and type of asbestos in the sample and the other fibrous or non-fibrous non-asbestos materials in the sample. Chain-of-custody documentation was followed throughout the sample collection, handling, and shipping to assure quality control requirements were met.

## Inspection Results

A total of 22 suspect ACM samples from 12 homogenous areas (HA) were analyzed for the presence of asbestos. The laboratory analytical results are presented in Attachment 1.

**Friable ACM** are defined as materials which contain 1 percent or greater asbestos that can be crushed, pulverized, or reduced to powder using hand pressure. Friable ACM identified during the inspection, include:

- **HA 4:** *Drywall (with joint compound)* walls and ceilings throughout the home.

**Non-friable ACM** are defined as materials that cannot be crumbled, pulverized, or reduced to a powder by hand pressure. Non-friable ACM is separated into category I and category II non-friable ACM.

- Category I non-friable ACM is defined as packings, gaskets, resilient floor coverings, and asphalt roofing products containing 1 percent or greater asbestos. No Category I non-friable ACM was identified during the inspection.
- Category II non-friable ACM is defined as any other non-friable material containing 1 percent or greater asbestos, excluding category I non-friable ACM. No Category II non-friable ACM was identified during the inspection.

The materials sampled during the assessment are detailed in **Table 1**, attached, which includes material descriptions, locations, and asbestos content of the materials.

### Conclusions/Recommendations

Based on Triterra’s understanding of the demolition activities planned for the Property, proper abatement/disposal of the friable asbestos-containing *drywall/joint compound (HA 4)* is required prior to commencing these activities. Additionally, the hazardous non-asbestos materials (thermostat) should be properly disposed of/recycled prior to the demolition.

Depending on the type and quantities of ACM that will be removed from the structure, notification may need to be provided to the following regulatory agencies 10 working (or calendar) days prior to commencement of work with the submittal of a Notification of Intent to Renovate/Demolish form (EQP 5661). The retained asbestos abatement contractor should complete this form as part of their services. This notification should be provided to the Michigan Department of Environment, Great Lakes, and Energy – Air Quality Division (EGLE-AQD) and Michigan Department of Licensing & Regulatory Affairs (LARA) any time renovation/demolition/asbestos abatement is to be completed on a building.

NESHAP Asbestos Program  
EGLE – AQD  
P.O. Box 30260  
Lansing, Michigan 48909  
(517) 284-6777

LARA  
MIOSHA Asbestos Program  
P.O. Box 30671  
Lansing, Michigan 48909  
(517) 636-4551

Regulations governing employee exposure to asbestos hazards in the workplace are found in the federal regulations at Title CFR, part 1910.1001, which is the U. S. Occupational Safety and Health Administration (OSHA) asbestos standard. The presence of any ACM in a facility where there is a possibility of employee exposure triggers the applicability of the standard to the workplace and employee. The standard generally applies to labeling, signage, employee training, and personal protective equipment in order to minimize the risk of asbestos exposure. An employer is required to institute a training program for all employees who are exposed to airborne concentrations of asbestos at or above the employee permissible exposure limit and/or excursion limit and ensure employee participation in the program. Air sampling and laboratory analysis are required to determine the concentration of asbestos in the air of the employee work areas.

**Disclaimer**

Destructive testing was completed in accessible areas of the structures and/or areas designated by the User throughout this inspection. If suspect ACMs are encountered during demolition activities for which no analytical data exists, Triterra recommends the materials remain undisturbed until the asbestos content of the material(s) is determined in accordance with USEPA and OSHA regulations. Quantities presented are meant as a guide and should not be used for bidding purposes without verification.

Triterra completed the work in general conformance with federal, state, and local requirements and made all appropriate inquiry consistent with good commercial or customary practice. Triterra assumes the information provided in this report and by the User and/or property owner is factual, complete, and correct. Triterra does not warrant that this report represents an exhaustive study of all possible environmental concerns associated with asbestos at the property. However, the items included in this report are believed to adequately address the client's needs at this time.

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Should you have any questions or comments regarding this report, please feel free to contact the undersigned at (517) 702-0470.

Sincerely,

The logo for Triterra, featuring the word "TRITERRA" in a bold, sans-serif font. The letter "I" is stylized with a green square containing a white circle, and the letter "T" is also stylized with a green square containing a white circle. The letters are brown.A handwritten signature in blue ink, appearing to read "Greg Ross".

Greg Ross  
Environmental Technician  
Michigan/EPA Certified Asbestos Inspector #A52547

A handwritten signature in blue ink, appearing to read "Alan Snell".

Alan Snell  
Project Geologist | Manager of Hazardous Materials  
Michigan/EPA Certified Asbestos Inspector #A47249

**Attachments:**

**TABLES**

**TABLE 1: ASBESTOS INSPECTION REPORT**

ROOM #	MATERIAL #	MATERIAL DESCRIPTION	FLOOR	ROOM	LOCATION	CATEGORY	FRIABILITY	SAMPLE ID	ASBESTOS DETECTED	QUANTITY	UNIT	NOTES
1	1	12X12" WHITE FLOOR TILE W/ FLOWER PATTERN	1	LIVING ROOM / FRONT ENTRY	FLOOR	MISC.		HA-1A HA-1B	NONE DETECTED	171	SF	
1	2	12X12" WHITE CEILING TILE	1	LIVING ROOM / FRONT ENTRY	CEILING	MISC.		HA-2A	NONE DETECTED	171	SF	
1	3	GLUE BEHIND WOOD PANELING	1	LIVING ROOM / FRONT ENTRY	WALL	MISC.		HA-3A HA-3B	NONE DETECTED	392	SF	
<b>1</b>	<b>4</b>	<b>DRYWALL W/ JOINT COMPOUND</b>	<b>1</b>	<b>LIVING ROOM / FRONT ENTRY</b>	<b>WALL + CEILING</b>	<b>MISC.</b>	<b>FRIABLE</b>	<b>HA-4A</b>	<b>2% CHRYSOTILE</b>	<b>563</b>	<b>SF</b>	
1	5	BLOWN-IN CELLULOSE INSULATION	1	LIVING ROOM / FRONT ENTRY	WALL + CEILING	MISC.		HA-5A	NONE DETECTED			WALL CAVITIES & ABOVE CEILINGS
<b>2</b>	<b>4</b>	<b>DRYWALL W/ JOINT COMPOUND</b>	<b>1</b>	<b>DINING ROOM</b>	<b>WALL + CEILING</b>	<b>MISC.</b>	<b>FRIABLE</b>		<b>2% CHRYSOTILE</b>	<b>310</b>	<b>SF</b>	
2	5	BLOWN-IN CELLULOSE INSULATION	1	DINING ROOM	WALL + CEILING	MISC.			NONE DETECTED			WALL CAVITIES & ABOVE CEILINGS
2	6	12X12" BROWN FLOOR TILE W/ MASTIC/ADHESIVE	1	DINING ROOM	FLOOR	MISC.		HA-6A	NONE DETECTED	72	SF	
<b>3</b>	<b>4</b>	<b>DRYWALL W/ JOINT COMPOUND</b>	<b>1</b>	<b>KITCHEN</b>	<b>WALL + CEILING</b>	<b>MISC.</b>	<b>FRIABLE</b>		<b>2% CHRYSOTILE</b>	<b>260</b>	<b>SF</b>	
3	5	BLOWN-IN CELLULOSE INSULATION	1	KITCHEN	WALL + CEILING	MISC.			NONE DETECTED			WALL CAVITIES & ABOVE CEILINGS
3	7	WHITE SHEET FLOORING W/ GREEN SQUARES	1	KITCHEN	FLOOR	MISC.		HA-7A HA-7B	NONE DETECTED	50	SF	
4	2	12X12" WHITE CEILING TILE	1	BATHROOM	CEILING	MISC.		HA-2B	NONE DETECTED			
<b>4</b>	<b>4</b>	<b>DRYWALL W/ JOINT COMPOUND</b>	<b>1</b>	<b>BATHROOM</b>	<b>WALL + CEILING</b>	<b>MISC.</b>	<b>FRIABLE</b>		<b>2% CHRYSOTILE</b>	<b>203</b>	<b>SF</b>	
4	5	BLOWN-IN CELLULOSE INSULATION	1	BATHROOM	WALL + CEILING	MISC.			NONE DETECTED			WALL CAVITIES & ABOVE CEILINGS
4	6	12X12" BROWN FLOOR TILE W/ MASTIC/ADHESIVE	1	BATHROOM	FLOOR	MISC.		HA-6B	NONE DETECTED	35	SF	
<b>5</b>	<b>4</b>	<b>DRYWALL W/ JOINT COMPOUND</b>	<b>1</b>	<b>BEDROOM</b>	<b>WALL + CEILING</b>	<b>MISC.</b>	<b>FRIABLE</b>		<b>2% CHRYSOTILE</b>	<b>332</b>	<b>SF</b>	
5	5	BLOWN-IN CELLULOSE INSULATION	1	BEDROOM	WALL + CEILING	MISC.			NONE DETECTED			WALL CAVITIES & ABOVE CEILINGS
6	2	12X12" WHITE CEILING TILE	1	BEDROOM	CEILING	MISC.			NONE DETECTED	90	SF	
<b>6</b>	<b>4</b>	<b>DRYWALL W/ JOINT COMPOUND</b>	<b>1</b>	<b>BEDROOM</b>	<b>WALL + CEILING</b>	<b>MISC.</b>	<b>FRIABLE</b>	<b>HA-4B</b>	<b>2% CHRYSOTILE</b>	<b>356</b>	<b>SF</b>	
6	5	BLOWN-IN CELLULOSE INSULATION	1	BEDROOM	WALL + CEILING	MISC.		HA-5B	NONE DETECTED			WALL CAVITIES & ABOVE CEILINGS
7	8	HOUSE WRAP INSULATION	1	EXTERIOR	BEHIND SIDING	MISC.		HA-8A HA-8B	NONE DETECTED			BEHIND METAL SIDING

NOTES: BOLD = ASBESTOS-CONTAINING MATERIAL (ACM) SF = SQUARE FT LF = LINEAR FT

**TABLE 1: ASBESTOS INSPECTION REPORT**

<i>ROOM #</i>	<i>MATERIAL #</i>	<i>MATERIAL DESCRIPTION</i>	<i>FLOOR</i>	<i>ROOM</i>	<i>LOCATION</i>	<i>CATEGORY</i>	<i>FRIABILITY</i>	<i>SAMPLE ID</i>	<i>ASBESTOS DETECTED</i>	<i>QUANTITY</i>	<i>UNIT</i>	<i>NOTES</i>
7	9	HOUSE WRAP INSULATION	1	EXTERIOR	BEHIND SIDING	MISC.		HA-9A HA-9B	NONE DETECTED			BEHIND METAL SIDING
7	10	ASPHALT SHINGLE AND TAR PAPER	1	EXTERIOR	ROOF	MISC.		HA-10A HA-10B	NONE DETECTED			HOUSE ROOF
8	11	ASPHALT SHINGLE AND TAR PAPER	1	EXTERIOR	ROOF	MISC.		HA-11	NONE DETECTED			SMALL SHED ROOF
9	12	ASPHALTIC ROOFING	1	EXTERIOR	ROOF	MISC.		HA-12	NONE DETECTED			LARGE SHED ROOF

***ATTACHMENT 1***

***EMSL ANALYTICAL RESULTS AND  
CHAIN OF CUSTODY DOCUMENTATION***



# EMSL Analytical, Inc.

15111 Northville Rd Plymouth, MI 48170

Tel/Fax: (734) 668-6810 / (734) 668-8532

<http://www.EMSL.com> / [annarborlab@emsl.com](mailto:annarborlab@emsl.com)

EMSL Order: 082100635

Customer ID: TRIA25

Customer PO:

Project ID:

**Attention:** Greg Ross  
Triterra  
1305 S. Washington Ave.  
Ste. 102  
Lansing, MI 48910  
**Project:** 21-2694/ 2073 Williamson

**Phone:** (517) 702-0470

**Fax:**

**Received Date:** 03/18/2021 10:05 PM

**Analysis Date:** 03/24/2021

**Collected Date:**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
HA-1A <small>082100635-0001</small>	Floor Tile	Brown/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-1B <small>082100635-0002</small>	Floor Tile	Brown/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-2A <small>082100635-0003</small>	Ceiling Tile	Brown/White Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
HA-2B <small>082100635-0004</small>	Ceiling Tile	Brown/White Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
HA-3A-Glue <small>082100635-0005</small>	Glue	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-3A-Paper <small>082100635-0005A</small>	Glue	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
HA-3B-Glue <small>082100635-0006</small>	Glue	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-3B-Drywall <small>082100635-0006A</small>	Glue	Brown/White Fibrous Heterogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
HA-4A <small>082100635-0007</small> <i>Sample is composite of joint compound, tape, and drywall.</i>	Drywall	Brown/Gray/White Fibrous Heterogeneous	12% Cellulose	86% Non-fibrous (Other)	2% Chrysotile
HA-4B <small>082100635-0008</small>	Drywall				Positive Stop (Not Analyzed)
HA-5A <small>082100635-0009</small>	Insulation	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
HA-6A-Stickyback Tile <small>082100635-0011</small>	Floor Tile	Brown/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-6A-Mastic/Adhesive <small>082100635-0011A</small>	Floor Tile	Tan/Black Non-Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
HA-6B <small>082100635-0012</small>	Floor Tile	Brown/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-7A <small>082100635-0013</small>	Flooring	Tan/Green/Beige Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
HA-7B <small>082100635-0014</small>	Flooring	Brown/Green/Beige Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected

Report amended: 03/29/2021 09:48:34 Replaces initial report from: 03/24/2021 15:58:58 Reason Code: Client-Change to Project



# EMSL Analytical, Inc.

15111 Northville Rd Plymouth, MI 48170

Tel/Fax: (734) 668-6810 / (734) 668-8532

<http://www.EMSL.com> / [annarborlab@emsl.com](mailto:annarborlab@emsl.com)

**EMSL Order:** 082100635  
**Customer ID:** TRIA25  
**Customer PO:**  
**Project ID:**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
HA-8A <i>082100635-0015</i>	Insulation	Brown/Black Fibrous Heterogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
HA-8B <i>082100635-0016</i>	Insulation	Brown/Black Fibrous Heterogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
HA-9A <i>082100635-0017</i>	Insulation	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
HA-9B <i>082100635-0018</i>	Insulation	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
HA-10A-Shingle <i>082100635-0019</i>	Roofing	Gray Fibrous Heterogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
HA-10A-Tar Paper <i>082100635-0019A</i>	Roofing	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
HA-10B-Shingle <i>082100635-0020</i>	Roofing	Gray/Black Fibrous Heterogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
HA-10B-Tar Paper <i>082100635-0020A</i>	Roofing	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
HA-11-Shingle <i>082100635-0021</i>	Roofing	Gray/Red/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
HA-11-Tar Paper <i>082100635-0021A</i>	Roofing	Black Non-Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
HA-12 <i>082100635-0022</i>	Roofing	Gray/Black Fibrous Heterogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
HA-5B <i>082100635-0023</i>	Insulation	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected

Analyst(s) \_\_\_\_\_  
 Ryan Shannon (27)

  
 \_\_\_\_\_  
 Ryan Shannon, Laboratory Manager  
 or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Plymouth, MI NVLAP Lab Code 101048-4

Report amended: 03/29/2021 09:48:34 Replaces initial report from: 03/24/2021 15:58:58 Reason Code: Client-Change to Project



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

**Asbestos Chain of Custody**  
EMSL Order Number (Lab Use Only):

082100635

PHONE:  
FAX:

Company Name: Triterra		EMSL Customer ID:	
Street: 1305 S. Washington Avenue, Suite 102		City: Lansing	State/Province: MI
Zip/Postal Code: 48910	Country: United States	Telephone #: 517.702.0470	Fax #: 517.702.0477
Report To (Name): Greg Ross		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Email Address: Greg.ross@triterra.us		Purchase Order:	
Project Name/Number: 21-2694 / 2073 Willason		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: Michigan		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different - If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party			
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input checked="" type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week
*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA level TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)	
PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NYS 198.8 SOF-V <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	Soil/Rock/Vermiculite <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<1%) <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%) <input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%) <input type="checkbox"/> TEM Qualitative via Filtration Prep <input type="checkbox"/> TEM Qualitative via Drop Mount Prep <input type="checkbox"/> Cincinnati Method EPA 600/R-04/004 - PLM/TEM (BC only) Other: <input type="checkbox"/>	
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		Filter Pore Size (Air Samples): <input type="checkbox"/> 0.8µm <input type="checkbox"/> 0.45µm	
Samplers Name: Gy Ross		Samplers Signature:	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
HA-1A	12x12" white w/flower floor tile	1	3/12/21
HA-1B	" " " "	1	"
HA-2A	12x12" white ceiling tile	2	"
HA-2B	" " " "	2	"
HA-3A	Glue	3	"
Client Sample # (s):		Total # of Samples: 22	
Relinquished (Client): Gy Ross	Date: 3/17/21	Time: 3:00	
Received (Lab): RS ETC	Date: 3/18/21	Time: 10:5	
Comments/Special Instructions:			



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

### Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

082100635

PHONE:  
FAX:

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
HA-3B	Glue	3	3/12/21
HA-4A	Dry wall	4	}
HA-4B	Dry wall	4	
HA-5A	Blown-in insulation	5	
HA-6A	12x12" brown floor tile	6	
HA-6B	" " "	6	
HA-7A	white w/Green square flooring	7	
HA-7B	" " "	7	
HA-8A	House insulation wrap	8	
HA-8B	" " "	8	
HA-9A	House insulation wrap	9	
HA-9B	" " "	9	
HA-10A	Roofing (House)	10	
HA-10B	" "	10	
HA-11	Roofing (Small shed)	11	
HA-12	Roofing (Large shed)	12	
HA-5B	Blown-insulation	5	/

\*Comments/Special Instructions:

\* HA-4A-4B run as composite -  
as per 3/18/21

ATTACHMENT E

**PRE-DEMOLITION ASBESTOS AND HAZARDOUS  
MATERIALS SURVEY**

Conducted by TriTerra LLC

Date:

Address: 1412 Morris, Lincoln Park MI



1305 S. Washington Avenue, Suite 102  
 Lansing, Michigan 48910  
 517-702-0470  
 Fax 517-702-0477  
 www.triterra.us

April 15, 2021  
 Triterra Project #: 21-2693

State Land Bank Authority  
 Attn: Linda Horak  
 P.O Box 30766  
 Lansing, Michigan 48909

**SUBJECT: Asbestos-Containing Materials Inspection and Hazardous Materials Survey  
 1412 Morris Avenue, Lincoln Park, Michigan 48146**

Dear Ms. Horak:

Triterra has completed an asbestos-containing materials (ACM) inspection and hazardous materials survey for the residence located at 1412 Morris Avenue in Lincoln Park, Michigan (the Property) to determine if any ACM or other hazardous non-ACM exist within the structures. This inspection was completed for the State Land Bank Authority (the User) to ensure compliance with the OSHA Construction Standard for Asbestos (29 CFR 1926.1101) and the United States Environmental Protection Agency (USEPA) requirements for inspection of buildings prior to renovation or demolition under the National Emissions Standards for Hazardous Air Pollutants (NESHAP 40 CFR Part 61). This report outlines and interprets the results of these analyses. A description of the structures, inspection methods, results, and recommendations are provided herein.

**Building Description**

The Property includes a single-story residential house with a crawlspace and a detached garage. The wood-frame home has a concrete block foundation, metal siding over asphaltic siding, and an asphalt-shingle roof. Building materials therein, include; drywall and plaster walls and ceilings, various types of flooring (hardwood, linoleum, carpet, plywood), and wool insulating materials. Other building materials/components include window caulk/glazing and a gas furnace which is located in the kitchen. The detached garage located behind the home was built on a concrete slab, and it has a wood-frame construction and an asphalt shingle roof.

**Hazardous Materials Survey**

On March 17, 2021, Greg Ross of Triterra conducted a hazardous materials survey of the Property to identify potential polychlorinated biphenyl (PCB) and mercury containing equipment as well as containers that may contain hazardous or regulated wastes. Potentially hazardous materials identified are documented in the table below.

<b>Material (hazardous component)</b>	<b>Quantity</b>	<b>Locations</b>
Smoke Detector (radioactive material)	<u>1</u>	Kitchen
Refrigerator (refrigerant – HFC, CFCs, HCFCs)	<u>1</u>	Kitchen
Chest Freezer (mercury, refrigerant – HFC, CFCs, HCFCs)	<u>1</u>	Garage



### **ACM Inspection Methods**

Greg Ross of Triterra completed an ACM inspection of the structure on March 17, 2021. Mr. Ross is an accredited State Of Michigan/EPA Asbestos Building Inspector, certificate number A52547.

Building construction plans, diagrams, and/or User provided information were utilized to assign room/area designations so that all areas of the structures are identifiable for sample location purposes. Each room/area of the structures were then evaluated for suspect ACM. Areas that contain similar suspect ACM were grouped into a single Homogenous Area (a grouping of rooms/spaces containing the same material according to color, texture, and date of application).

Suspect materials were placed into three major categories: surfacing materials, thermal system insulation materials, and miscellaneous materials. Surfacing materials are sprayed-on or troweled-on (e.g. plaster, fireproofing, or acoustical materials). Thermal system insulation materials are used for heat insulation or condensation prevention (e.g. boiler coverings, pipe insulation, or roof drain insulation). Miscellaneous materials are any application that does not fall into the surfacing or thermal system insulation categories (e.g. floor tile, roofing, drywall, etc.).

Representative samples of each encountered suspect ACM were either collected for laboratory analysis or presumed to contain asbestos. Presumed asbestos-containing materials (PACM) are generally thermal system insulation and surfacing materials that have a high likelihood of containing greater than 1% asbestos, and therefore are not sampled. Each sample collected was containerized in double-layer, laboratory-provided, sampling bags. The collected samples were sent to EMSL Analytical, Inc. (EMSL) [Accreditation Number 101048-4] for analysis using polarized light microscopy (PLM). PLM is the most commonly used method for the analysis of bulk samples, using 10 to 400 times power magnification. PLM bulk sample analyses follow the EPA method of the Determination of Asbestos in Bulk Insulation Samples (EPA 600/M4-82-020). The laboratory results indicate the percentage and type of asbestos in the sample and the other fibrous or non-fibrous non-asbestos materials in the sample. Chain-of-custody documentation was followed throughout the sample collection, handling, and shipping to assure quality control requirements were met.

### **Inspection Results**

A total of 21 suspect ACM samples from 10 homogenous areas (HA) were analyzed for the presence of asbestos. The laboratory analytical results are presented in Attachment 1.

**Friable ACM** are defined as materials which contain 1 percent or greater asbestos that can be crushed, pulverized, or reduced to powder using hand pressure. No Friable ACM was identified during the inspection.

**Non-friable ACM** are defined as materials that cannot be crumbled, pulverized, or reduced to a powder by hand pressure. Non-friable ACM is separated into category I and category II non-friable ACM.

- Category I non-friable ACM is defined as packings, gaskets, resilient floor coverings, and asphalt roofing products containing 1 percent or greater asbestos. Category I non-friable ACM identified during the inspection, include:
  - **HA 2:** *Green & yellow linoleum sheet flooring* in the kitchen, and;
  - **HA 8:** *Asphaltic roofing/flushing* over the rear entrance of the home.
  
- Category II non-friable ACM is defined as any other non-friable material containing 1 percent or greater asbestos, excluding category I non-friable ACM. No Category II non-friable ACM was identified during the inspection.

The materials sampled during the assessment are detailed in **Table 1**, attached, which includes material descriptions, locations, and asbestos content of the materials.

### Conclusions/Recommendations

Based on Triterra’s understanding of the demolition activities planned for the Property, the Category I non-friable asbestos-containing *flooring (HA 2)* and *roofing (HA 8)* may remain in place during demolition if the demolition contractor/operator has the proper training and certifications to handle these materials. If the demolition contractor does not have the required training and certifications to handle asbestos demolition debris, these materials should be properly abated and disposed of prior to demolition. Additionally, the potentially hazardous non-asbestos items identified earlier in the report should be disposed of/recycled prior to demolition of the structures.

Depending on the type and quantities of ACM that will be removed from the structure(s), notification may need to be provided to the following regulatory agencies 10 working (or calendar) days prior to commencement of work with the submittal of a Notification of Intent to Renovate/Demolish form (EQP 5661). The retained asbestos abatement contractor should complete this form as part of their services. This notification should be provided to the Michigan Department of Environment, Great Lakes, and Energy – Air Quality Division (EGLE-AQD) and Michigan Department of Licensing & Regulatory Affairs (LARA) any time renovation/demolition/asbestos abatement is to be completed on a building.

NESHAP Asbestos Program  
EGLE – AQD  
P.O. Box 30260  
Lansing, Michigan 48909  
(517) 284-6777

LARA  
MIOASHA Asbestos Program  
P.O. Box 30671  
Lansing, Michigan 48909  
(517) 636-4551

Regulations governing employee exposure to asbestos hazards in the workplace are found in the federal regulations at Title CFR, part 1910.1001, which is the U. S. Occupational Safety and Health Administration (OSHA) asbestos standard. The presence of any ACM in a facility where there is a possibility of employee exposure triggers the applicability of the standard to the workplace and employee. The standard generally applies to labeling, signage, employee training, and personal protective equipment in order to minimize the risk of asbestos exposure. An employer is required to institute a training program for all employees who are exposed to airborne concentrations of asbestos at or above the employee permissible exposure limit and/or excursion limit and ensure employee participation in the program. Air sampling and

laboratory analysis are required to determine the concentration of asbestos in the air of the employee work areas.

**Disclaimer**

Destructive testing was completed in accessible areas of the structures and/or areas designated by the User throughout this inspection. If suspect ACMs are encountered during demolition activities for which no analytical data exists, Triterra recommends the material(s) remain undisturbed until the asbestos content of the material(s) is determined in accordance with USEPA and OSHA regulations. Quantities presented are meant as a guide and should not be used for bidding purposes without verification.

Triterra completed the work in general conformance with federal, state, and local requirements and made all appropriate inquiry consistent with good commercial or customary practice. Triterra assumes the information provided in this report and by the User and/or property owner is factual, complete, and correct. Triterra does not warrant that this report represents an exhaustive study of all possible environmental concerns associated with asbestos at the property. However, the items included in this report are believed to adequately address the client's needs at this time.

This report was prepared exclusively for the State Land Bank Authority for the purposes as expressly stated. This report may be unsuitable for other uses, and reliance on its contents by anyone other than the User is done at the sole risk of that party. This report may not be reproduced, sold, or otherwise conveyed to another entity without prior written permission from Triterra.

Should you have any questions or comments regarding this report, please feel free to contact the undersigned at (517) 702-0470.

Sincerely,

The logo for Triterra, featuring the word "TRITERRA" in a bold, sans-serif font. The letter "I" is replaced by a stylized green and yellow square icon.A handwritten signature in blue ink, appearing to read "Greg Ross".

Greg Ross  
Environmental Technician  
Michigan/EPA Certified Asbestos Inspector #A52547

A handwritten signature in blue ink, appearing to read "Alan Snell".

Alan Snell  
Project Geologist | Manager of Hazardous Materials  
Michigan/EPA Certified Asbestos Inspector #A47249

**Attachments:**

**TABLES**

ROOM #	MATERIAL #	MATERIAL DESCRIPTION	FLOOR	ROOM	LOCATION	CATEGORY	FRIABILITY	SAMPLE ID	ASBESTOS DETECTED	QUANTITY	UNIT	NOTES
1	1	PLASTER - BASE & FINISH COATS	1	LIVING ROOM	WALL + CEILING	SURFACING		HA-1A	FINISH COAT - NONE DETECTED BASE COAT - <1% CHRYSOTILE	636	SF	PLASTER ABOVE DRYWALL
1	4	DRYWALL WITH JOINT COMPOUND	1	LIVING ROOM	CEILING	MISC.		HA-4A HA-4B	NONE DETECTED	168	SF	
2	1	PLASTER - BASE & FINISH COATS	1	BEDROOM	WALL + CEILING	SURFACING		HA-1B	FINISH COAT - NONE DETECTED BASE COAT - <1% CHRYSOTILE	405	SF	
3	1	PLASTER - BASE & FINISH COATS	1	KITCHEN	WALL + CEILING	SURFACING		HA-1C	FINISH COAT - NONE DETECTED BASE COAT - <1% CHRYSOTILE	606	SF	
<b>3</b>	<b>2</b>	<b>GREEN &amp; YELLOW LINOLEUM SHEET FLOORING</b>	<b>1</b>	<b>KITCHEN</b>	<b>FLOOR</b>	<b>MISC.</b>	<b>CAT I NON-FRIABLE</b>	<b>HA-2A HA-2B</b>	<b>TOP LAYER - 25% CHRYSOTILE BOTTOM LAYER - NONE DETECTED</b>	<b>156</b>	<b>SF</b>	<b>TWO LAYERS OF FLOORING</b>
4	1	PLASTER - BASE & FINISH COATS	1	BEDROOM	WALL + CEILING	SURFACING		HA-1D	FINISH COAT - NONE DETECTED BASE COAT - <1% CHRYSOTILE	405	SF	
5	3	YELLOW/WHITE WOOL INSULATION	1	ATTIC	FLOOR	MISC.		HA-3A HA-3B	NONE DETECTED			
6	1	PLASTER - BASE & FINISH COATS	1	BATHROOM	WALL + CEILING	SURFACING		HA-1E	FINISH COAT - NONE DETECTED BASE COAT - <1% CHRYSOTILE	320	SF	
7	5	ASPHALTIC ROOFING SHINGLE & TAR	1	EXTERIOR	ROOF	MISC.		HA-5A HA-5B	NONE DETECTED			HOUSE ROOF
7	6	ASPHALTIC SIDING, BACKING, & TAR PAPER	1	EXTERIOR	BEHIND SIDING	MISC.		HA-6A HA-6B	NONE DETECTED			BEHIND METAL SIDING
7	7	WINDOW GLAZING	1	EXTERIOR	WINDOW	MISC.		HA-7A THRU HA-7C	NONE DETECTED			
<b>7</b>	<b>8</b>	<b>ASPHALTIC ROOFING SHINGLE &amp; FLASHING</b>	<b>1</b>	<b>EXTERIOR</b>	<b>ROOF</b>	<b>MISC.</b>	<b>CAT I NON-FRIABLE</b>	<b>HA-8</b>	<b>SHINGLE - NONE DETECTED FLASHING - 4% CHRYSOTILE</b>	<b>42</b>	<b>SF</b>	<b>ROOF OVER REAR ENTRANCE</b>
7	9	ASPHALTIC ROOFING SHINGLE & TAR PAPER	1	EXTERIOR	ROOF	MISC.		HA-9	NONE DETECTED			FRONT PORCH
7	10	ASPHALTIC ROOFING SHINGLE	1	EXTERIOR	ROOF	MISC.		HA-10	NONE DETECTED			GARAGE ROOF

***ATTACHMENT 1***

***EMSL ANALYTICAL RESULTS AND  
CHAIN OF CUSTODY DOCUMENTATION***



# EMSL Analytical, Inc.

15111 Northville Rd Plymouth, MI 48170

Tel/Fax: (734) 668-6810 / (734) 668-8532

<http://www.EMSL.com> / [annarborlab@emsl.com](mailto:annarborlab@emsl.com)

EMSL Order: 082100634

Customer ID: TRIA25

Customer PO:

Project ID:

**Attention:** Greg Ross  
Triterra  
1305 S. Washington Ave.  
Ste. 102  
Lansing, MI 48910

**Project:** 21-2693/ 1412 Morris

**Phone:** (517) 702-0470

**Fax:**

**Received Date:** 03/18/2021 10:05 AM

**Analysis Date:** 03/23/2021 - 03/24/2021

**Collected Date:**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
HA-1A-Finish Coat <small>082100634-0001</small>	Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-1A-Base Coat <small>082100634-0001A</small>	Plaster	Gray Non-Fibrous Homogeneous	<1% Hair	4% Quartz 96% Non-fibrous (Other)	<1% Chrysotile
HA-1B-Finish Coat <small>082100634-0002</small>	Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-1B-Base Coat <small>082100634-0002A</small>	Plaster	Gray Fibrous Homogeneous	<1% Cellulose <1% Hair	6% Quartz 94% Non-fibrous (Other)	<1% Chrysotile
HA-1C-Texture <small>082100634-0003</small>	Plaster	White Non-Fibrous Homogeneous		15% Ca Carbonate 3% Mica 82% Non-fibrous (Other)	None Detected
HA-1C-Finish Coat <small>082100634-0003A</small>	Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-1C-Base Coat <small>082100634-0003B</small>	Plaster	Gray Fibrous Homogeneous	<1% Cellulose <1% Hair	7% Quartz 93% Non-fibrous (Other)	<1% Chrysotile
HA-1D-Finish Coat <small>082100634-0004A</small>	Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-1D-Base Coat <small>082100634-0004B</small>	Plaster	Gray Non-Fibrous Homogeneous		6% Quartz 94% Non-fibrous (Other)	<1% Chrysotile
HA-1E-Finish Coat <small>082100634-0005</small>	Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-1E-Base Coat <small>082100634-0005A</small>	Plaster	Gray Non-Fibrous Homogeneous	<1% Hair	7% Quartz 93% Non-fibrous (Other)	<1% Chrysotile
HA-2A-Linoleum A <small>082100634-0006</small>	Flooring	Gray/Yellow/Green Fibrous Heterogeneous	20% Cellulose	55% Non-fibrous (Other)	25% Chrysotile
HA-2A-Linoleum B <small>082100634-0006A</small>	Flooring	Brown/Gray/Various Fibrous Heterogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
HA-2B-Linoleum A <small>082100634-0007</small>	Flooring				Positive Stop (Not Analyzed)
HA-2B-Linoleum B <small>082100634-0007A</small>	Flooring	Brown/Gray/Various Fibrous Heterogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
HA-3A <small>082100634-0008</small>	Insulation	White/Yellow Fibrous Homogeneous	2% Cellulose 95% Min. Wool	3% Non-fibrous (Other)	None Detected

Initial report from: 03/24/2021 15:51:49



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**EMSL Order:** 082100634  
**Customer ID:** TRIA25  
**Customer PO:**  
**Project ID:**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
HA-3B <small>082100634-0009</small>	Insulation	White/Yellow Fibrous Heterogeneous	<1% Cellulose 95% Min. Wool	5% Non-fibrous (Other)	None Detected
HA-4A <small>082100634-0010</small> <i>This is a composite result of wallboard, jt. compound, and tape</i>	Drywall	Gray/Tan/White Fibrous Heterogeneous	10% Cellulose	3% Ca Carbonate 2% Mica 85% Non-fibrous (Other)	None Detected
HA-4B <small>082100634-0011</small> <i>This is a composite result of drywall, two jt. compounds, and tape</i>	Drywall	Brown/Gray/Tan Fibrous Heterogeneous	8% Cellulose	2% Mica 90% Non-fibrous (Other)	None Detected
HA-5A-Shingle <small>082100634-0012</small>	Roofing	White/Black Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
HA-5A-Tar <small>082100634-0012A</small>	Roofing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-5B-Shingle <small>082100634-0013</small>	Roofing	White/Black Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
HA-5B-Tar <small>082100634-0013A</small>	Roofing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-6A-Asphalt Siding <small>082100634-0014</small>	Siding	Tan/Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
HA-6A-Backing <small>082100634-0014A</small>	Siding	Tan Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
HA-6A-Tar Paper <small>082100634-0014B</small>	Siding	Black Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
HA-6B-Asphalt Siding <small>082100634-0015</small>	Siding	Tan/Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
HA-6B-Backing <small>082100634-0015A</small>	Siding	Black Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
HA-6B-Backing-Tar Paper <small>082100634-0015B</small>	Siding	Black Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
HA-7A <small>082100634-0016</small>	Glazing	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-7B <small>082100634-0017</small>	Glazing	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-7C <small>082100634-0018</small>	Glazing	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA-8-Shingle <small>082100634-0019</small>	Roofing	Black/Green Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
HA-8-Flashing <small>082100634-0019A</small>	Roofing	Gray/Black Non-Fibrous Heterogeneous	5% Cellulose	91% Non-fibrous (Other)	4% Chrysotile

Initial report from: 03/24/2021 15:51:49



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**EMSL Order:** 082100634  
**Customer ID:** TRIA25  
**Customer PO:**  
**Project ID:**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
HA-9-Shingle A <i>082100634-0020</i>	Roofing	White/Beige Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
HA-9-Shingle B <i>082100634-0020A</i>	Roofing	Gray/Black Fibrous Heterogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
HA-9-Tar Paper <i>082100634-0020B</i>	Roofing	Black Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
HA-10-Shingle A <i>082100634-0021</i>	Roofing	Gray/Black/Blue Non-Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
HA-10-Shingle B <i>082100634-0021A</i>	Roofing	Black/Green Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
HA-10-Shingle C <i>082100634-0021B</i>	Roofing	Black Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected

Analyst(s)

Conner Frymier (1)

Eric Budai (13)

Waverly Ferguson (25)

Ryan Shannon, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Plymouth, MI NVLAP Lab Code 101048-4

Initial report from: 03/24/2021 15:51:49



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Asbestos Chain of Custody

## EMSL Order Number (Lab Use Only):

082100634

PHONE:  
FAX:

Company Name: <b>Triterra</b>		EMSL Customer ID:	
Street: 1305 S. Washington Avenue, Suite 102		City: Lansing	State/Province: MI
Zip/Postal Code: 48910	Country: United States	Telephone #: 517.702.0470	Fax #: 517.702.0477
Report To (Name): Greg Ross		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Email Address: Greg.ross@triterra.us		Purchase Order:	
Project Name/Number: 21-2693 / 1412 Morris		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: Michigan		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different - If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party			
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week
*For TEM Air 3 hr through 6 hr, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
<b>PCM - Air</b> <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA		<b>TEM - Air</b> <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	
<b>PLM - Bulk (reporting limit)</b> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NYS 198.8 SOF-V <input type="checkbox"/> NIOSH 9002 (<1%)		<b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 <b>TEM - Water: EPA 100.2</b> Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
<b>TEM - Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)		<b>Soil/Rock/Vermiculite</b> <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<1%) <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%) <input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%) <input type="checkbox"/> TEM Qualitative via Filtration Prep <input type="checkbox"/> TEM Qualitative via Drop Mount Prep <input type="checkbox"/> Cincinnati Method EPA 600/R-04/004 -- PLM/TEM (BC only)	
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		Filter Pore Size (Air Samples): <input type="checkbox"/> 0.8µm <input type="checkbox"/> 0.45µm	
Samplers Name: <i>Greg Ross</i>		Samplers Signature: <i>[Signature]</i>	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
HA-1A	Plaster	1	3/17/21
HA-1B	"	1	
HA-1C	"	1	
HA-1D	"	1	
HA-1E	"	1	
Client Sample # (s): -		Total # of Samples: 21	
Relinquished (Client): <i>Greg Ross</i>		Date: 3/17/21	Time: 3:17
Received (Lab): <i>GF</i>		Date: 3/18/21	Time: 10:05
Comments/Special Instructions:			

