

Asbestos-Containing Materials Inspection
1474-1484 West Liberty Street
Ann Arbor, Michigan 48103

Ann Arbor Housing Development Corporation

April 4, 2023

ASTI ENVIRONMENTAL



Asbestos-Containing Materials Inspection
1474-1484 West Liberty Street
Ann Arbor, Michigan 48103

April 4, 2023

Report Prepared For:

Ann Arbor Housing Development Corporation
c/o Jennifer Hall
2000 S. Industrial Highway
Ann Arbor, Michigan 48104

Report Prepared By:

ASTI Environmental
10448 Citation Drive, Suite 100
Brighton, Michigan 48116
1-800-395-ASTI

ASTI Project No. 12703

Report Prepared by:



Jelaine D. Tinsley
Asbestos Inspector (A16395)

Report Reviewed by:



David A. Amir, EP
Director-Site Redevelopment Services



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Executive Summary

ASTI Environmental (ASTI) was retained by Ann Arbor Housing Development Corporation to conduct an asbestos-containing materials (ACMs) inspection of the buildings located at 1474-1484 West Liberty Street, Ann Arbor, Washtenaw County, Michigan (Subject Property). ASTI's scope of work included sampling of suspect ACMs in general conformance with the National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61 Subpart M. The services provided by ASTI in completing this assessment have been provided in a manner consistent with the normal standards of the profession. No other warranties, expressed or implied, are made.

The structures inspected consists of two (2) approximately 2,200 square feet, 2-story buildings with partial basements and gabled roofs. Based on the inspection conducted by ASTI on March 7, 2023, the following ACMs were identified on the Subject Property:

Asbestos-Containing Materials Quantities

MATERIAL	LOCATION	ESTIMATED QUANTITY
9" x 9" vinyl floor tile / Beige with tan spots	Throughout Buildings: 1474-1484 Some of the 9"x 9" floor tile is beneath carpet	3,300 ft ²
Linoleum / Brown & tan with pebble pattern	1474 Laundry room, 1484 2 nd floor landing	300 ft ²

Presumed Asbestos-Containing Materials

During completion of the inspection, several materials were identified as potential ACMs, however, due to inaccessibility, and /or the destructive nature of sampling required; these materials were not sampled at this time and should be considered as presumed asbestos-containing materials (PACMs) until it can be sampled. The following PACMs were identified during the site inspection.

Presumed Asbestos-Containing Materials Summary

MATERIAL	LOCATION	ESTIMATED QUANTITY
Bathtub undercoating	Throughout the buildings: 1474-1484	4 bathtubs
Roofing Materials	Throughout the buildings: 1474-1484	3,300 ft ²

1.0 INTRODUCTION

ASTI Environmental (ASTI) was retained by Ann Arbor Housing Development Corporation to conduct an asbestos-containing materials (ACM) inspection at 1474-1484 West Liberty Street, Ann Arbor, Washtenaw County, Michigan (Subject Property). Refer to the attached Site Location Map for the approximate location of the Subject Property. The information and opinions rendered in this report are prepared for the benefit of Ann Arbor Housing Development Corporation; ASTI acknowledges that said parties may rely upon the contents and conclusions presented in this report. The services provided by ASTI in completing this assessment have been provided in a manner consistent with the normal standards of the profession. No other warranties, expressed or implied are made.

2.0 LIMITATION AND EXCEPTIONS

ASTI's scope of work included sampling of suspect homogeneous ACMs in general conformance with the National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61 Subpart M and ASTM E2356-10 Standard Practice for Comprehensive Building Asbestos Surveys. Suspect materials not identified within this report may be encountered in inaccessible wall cavities, chases, floor cavities, etc. during demolition activities. These materials must be presumed to be ACM until they can be sampled and analyzed for asbestos content.

- Hollow concrete block was used in the construction of the buildings. The possibility exists for suspect ACM insulation to be present inside the concrete block. If during demolition/renovation material is found within the concrete block it should be assumed to be ACM until it can be sampled and analyzed for asbestos content.
- Due to the age of the buildings and the use of boilers, straight pipe insulation and elbows/fittings may be located in hidden cavities not accessible during the inspection. If any future work, such as renovation or demolition, which would uncover and disturb these materials, the straight pipe insulation and elbows/fittings are considered regulated ACMs and must be removed by a licensed abatement contractor.

3.0 SUBJECT PROPERTY DESCRIPTION

The Subject Property is currently developed with an apartment housing complex containing four (4) units in two (2) buildings. The buildings were constructed in 1962. Each building is approximately 2,200 square feet and contains two (2) apartment units on two (2) levels. The buildings are of masonry construction with gable roof. Exterior finish materials include asphalt shingles, siding, and brick. Interior finish materials include plaster, resilient floor tiles, linoleum, ceramic tile, carpeting, brick, concrete, paint, and glass.

4.0 ASBESTOS-CONTAINING MATERIALS INSPECTION

Ms. Jelaine D. Tinsley (A16395), and Mr. John Schuitema (A51781) of ASTI's Site Redevelopment Services Group conducted the ACMs inspection of the Subject Property located at 1474-1484 West Liberty Street, Ann Arbor, Michigan on March 7, 2023. Copies of the inspectors' resumes and asbestos accreditations are provided in Appendix A.

4.1 Previous Asbestos-Containing Materials Inspections

ASTI is not aware of any previous ACM inspections of the Subject Property.

4.2 Asbestos Inspection Methodology

ASTI's scope of work included sampling of suspect ACMs in accordance with the AHERA and NESHAP protocols. The inspection included a visual inspection of the building in order to identify homogeneous areas of suspect surfacing materials, thermal system insulation, and miscellaneous materials, as well as the sampling of suspect friable and non-friable materials. The following definitions from 40 CFR Part 763 are provided below.

Asbestos-Containing Material (ACM): *any material or product which contains more than one percent asbestos.*

Surfacing Materials (SM): *material that is troweled-on, sprayed-on or otherwise applied to surfaces for acoustical, fireproofing or other purposes.*

Thermal System Insulation (TSI): *material applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior components to prevent heat loss or gain, or water condensation or for other purposes.*

Miscellaneous Materials (MM): *interior building material on structural components, structural members or fixtures such as floors and ceilings and does not include surfacing material or thermal system insulation.*

Friable: *material that when dry, may be crumbled pulverized or reduced to powder by hand pressure, and includes previously non-friable material after such previously non-friable material becomes damaged to the extent that when dry it may be crumbled, pulverized or reduced to powder by hand pressure.*

Non-friable: *material which when dry may not be crumbled, pulverized or reduced to powder by hand pressure.*

Homogeneous areas (HAs): an area of surfacing material, thermal system insulation, or miscellaneous material that is uniform in color and texture.

4.3 **Sample Collection**

Samples were collected by physically removing a small piece of suspect material and placing it in a marked plastic bag. Samples were collected using wet methods, as appropriate. The sample collection tool was cleaned prior to each use to avoid cross-contamination of samples. ASTI sampled a variety of materials for asbestos testing. The material types sampled are listed below.

- Linoleum and associated mastic (various types)
- Sink undercoating
- Tile grout (various types)
- Caulk (various types)
- Plaster
- 9" x 9" Floor tile and associated mastic
- Block mortar
- Plank flooring
- Brick Mortar

ASTI collected 40 bulk samples from the suspect ACMs. A total of 52 sample layers were analyzed. One sample layer was point counted. The bulk samples were transmitted under chain-of-custody protocol to Apex Laboratory in Whitmore Lake, Michigan or asbestos analysis using polarized light microscopy with dispersion staining (PLM/DS) in accordance with the US Environmental Protection Agency's (US EPA's) "Interim Method for the Determination of Asbestos in Bulk Building Materials" (EPA 600/R-93/116, June 1993). Sample results are presented in the attached Table 1.

4.4 **Laboratory Analytical Results**

Building materials identified to contain greater than 1% asbestos are defined as ACMs. Review of the asbestos test results revealed that the following ACMs were identified on the Subject Property:

HA	Material/Description	Location	Asbestos Result
7	9" x 9" vinyl floor tile / Beige with tan spots	Throughout Buildings: 1474-1484 Some of the 9"x 9" floor tile is beneath carpet	1.25% Chrysotile (PC)
12	Linoleum / Brown & tan with pebble pattern	1474 Laundry room, 1484 2 nd floor landing	30% Chrysotile

PC = Point Counting

A comprehensive list of sampled materials with analytical results is provided as Table 1. A copy of the laboratory data sheets, along with the chain-of-custodies are included in Appendix B.

Asbestos-Containing Materials Quantities

MATERIAL	LOCATION	ESTIMATED QUANTITY
9" x 9" vinyl floor tile / Beige with tan spots	Throughout Buildings: 1474-1484 Some of the 9"x 9" floor tile is beneath carpet	3,300 ft ²
Linoleum / Brown & tan with pebble pattern	1474 Laundry room, 1484 2 nd floor landing	300 ft ²

4.5 Presumed Asbestos-Containing Materials

During completion of the inspection, several materials were identified as potential ACMs, however, due to inaccessibility, and /or the destructive nature of sampling required; these materials were not sampled at this time and should be considered as presumed asbestos-containing materials (PACMs) until it can be sampled. The following PACMs were identified during the site inspection.

Presumed Asbestos-Containing Materials Summary

MATERIAL	LOCATION	ESTIMATED QUANTITY
Bathtub undercoating	Throughout the buildings: 1474-1484	4 bathtubs
Roofing Materials	Throughout the buildings: 1474-1484	3,300 ft ²

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the inspection completed at the Subject Property by ASTI on March 7, 2023, ACMs were identified in the buildings. A summary of the ACMs identified, along with ASTI's recommendations are as follows:

MATERIAL	LOCATION	ESTIMATED QUANTITY
9" x 9" vinyl floor tile / Beige with tan spots	Throughout Buildings: 1474-1484 Some of the 9"x 9" floor tile is beneath carpet	3,300 ft ²
Linoleum / Brown & tan with pebble pattern	Throughout Buildings: 1474-1484	300 ft ²

According to classification guidelines set forth in NESHAP, the 9" x 9" vinyl floor tile and linoleum is classified as Category I non-friable ACMs. These materials in their current condition represents minimal risk of fiber release. If renovation or demolition would disturb these materials, ASTI recommends the ACMs be removed by a licensed abatement contractor prior to disturbance.

Presumed Asbestos-Containing Materials

During completion of the inspection, several materials were identified as potential ACMs, however, due to inaccessibility, and /or the destructive nature of sampling required; these materials were not sampled at this time and should be considered as presumed asbestos-containing materials (PACMs) until it can be sampled. The following PACMs were identified during the site inspection.

Presumed Asbestos-Containing Materials Summary

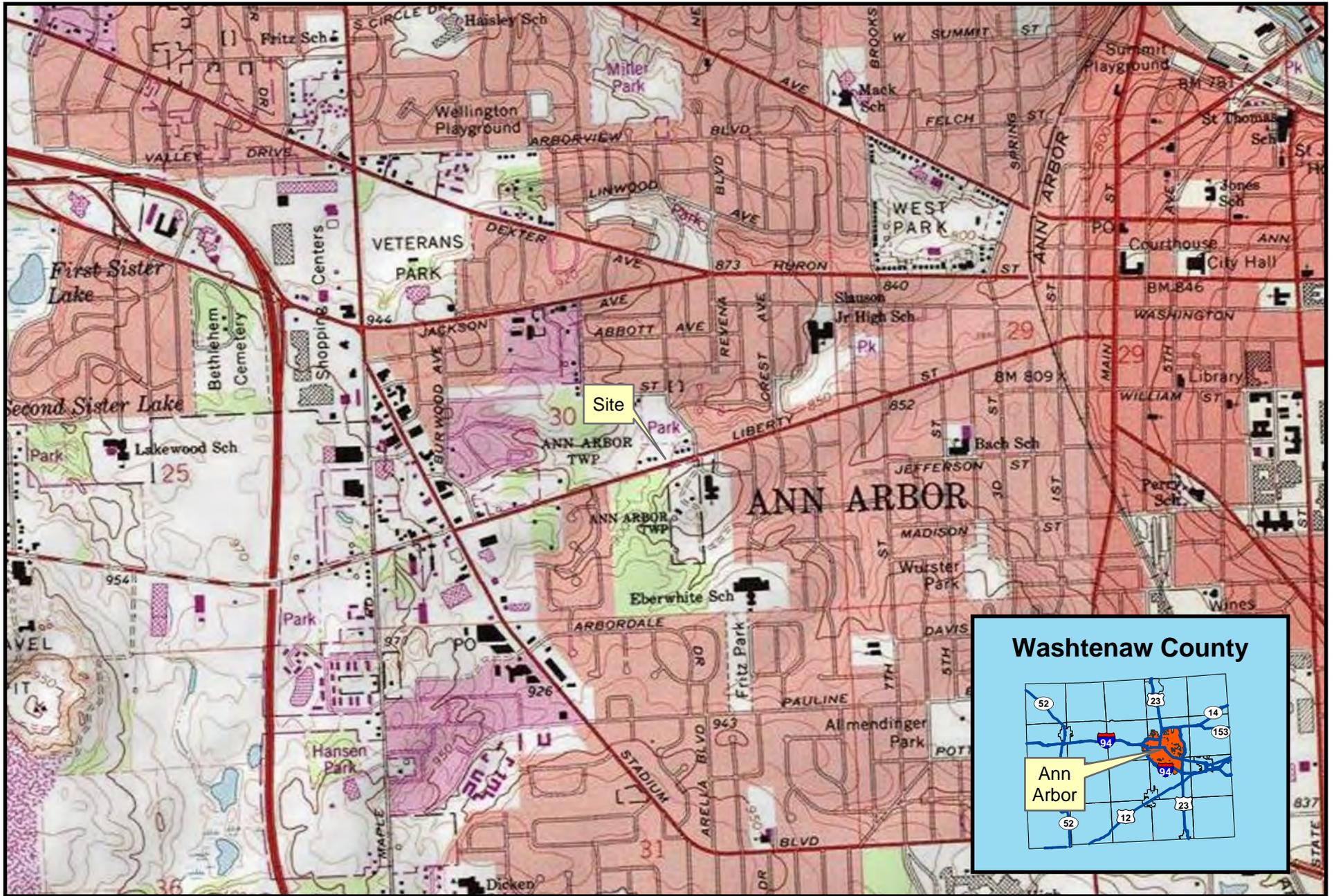
MATERIAL	LOCATION	ESTIMATED QUANTITY
Bathtub undercoating	Throughout the buildings: 1474-1484	4 bathtubs
Roofing Materials	Throughout the buildings: 1474-1484	3,300 ft ²

According to classification guidelines set forth in NESHAP, the bathtub undercoating and roofing materials are assumed to contain asbestos and are classified as Category II non-friable ACMs. Until testing of these materials is completed, they should be treated as Category II non-friable ACMs.

Due to the age of the buildings and the use of boilers, straight pipe insulation and elbows/fittings may be located in hidden cavities not accessible during the inspection. If any future work, such as renovation or demolition, which would uncover and disturb these materials, the straight pipe insulation and elbows/fittings are considered regulated ACMs and must be removed by a licensed abatement contractor.

Figures

Site Location Map



1474-1484 West Liberty Street

Ann Arbor, MI



Tables

- 1 Asbestos Sample Results

Table 1
Asbestos Sample Results
1474-1484 West Liberty Street
Ann Arbor, MI
ASTI Project No: 12703

ASTI Sample ID	Material/Description	Sample Location	Asbestos Result
1A	Linoleum / Beige & White	1484-2 Kitchen	NAD
1B	Linoleum / Beige & White	1484-2 Kitchen	NAD
2A	Sink Undercoat / White	1484-2 Kitchen	NAD
2B	Sink Undercoat / White	1484-2 Kitchen	NAD
3A	Tile Grout / White	1484-2 Living Room	NAD
3B	Tile Grout / White	1484-2 Living Room	NAD
4A	Caulk / White	1484-2 Kitchen	NAD
4B	Caulk / White	1484-2 Bath	NAD
5A	Tile Grout / White	1484-2 Tub Surround	NAD
5B	Tile Grout / White	1484-2 Tub Surround	NAD
6A	Plaster Base Coat / Grey	1484-2 Bed 2	NAD
	Drywall		NAD
6B	Plaster Finish Coat / White	1484-2 Bed 2	NAD
	Plaster Base Coat / Grey		NAD
	Drywall		NAD
6C	Plaster Finish Coat / White	1484-2 Bed 2	NAD
	Plaster Base Coat / Grey		NAD
	Drywall		NAD
6D	Plaster Finish Coat / White	1484-2 Bed 2	NAD
	Plaster Base Coat / Grey		NAD
	Drywall		NAD
6E	Plaster Finish Coat / White	1484-2 Bed 2	NAD
	Plaster Base Coat / Grey		NAD
	Drywall		NAD
6F	Plaster Base Coat / Grey	1474-2 Bed 2	NAD
6G	Plaster Finish Coat / White	1474-2 Bed 2	NAD
	Plaster Base Coat / Grey		NAD
7A	9"x9" Floor Tile / Beige w/Tan Spots	1474-2 Bed 2	1.25% Chrysotile (PC)
	Mastic		NAD
7B	9"x9" Floor Tile / Beige w/Tan Spots	1474-2 Laundry	NA
	Mastic		NAD
8A	Block Mortar / Grey	1474-2 Bed 2	NAD
8B	Block Mortar / Grey	1474-2 Bed 2	NAD
9A	Tile Grout / Grey	1474-2 Bathroom	NAD
9B	Tile Grout / Grey	1474-2 Bathroom	NAD
10A	Plaster Finish Coat / White	1474 Laundry	NAD
	Plaster Base Coat / Grey		NAD
10B	Plaster Finish Coat / White	1474 Laundry	NAD
	Plaster Base Coat / Grey		NAD
10C	Plaster Finish Coat / White	1474 Laundry	NAD
11A	Tile Grout / Grey	1484 Entry	NAD
11B	Tile Grout / Grey	1484 / Entry	NAD
12A	Linoleum / Brown & Tan Pebble Pattern	1484 Hall	30% Chrysotile
12B	Linoleum / Brown & Tan Pebble Pattern	1474 Hall	NA
13A	Plank Flooring / Brown Faux Wood	1474-2 Hall	NAD
13B	Plank Flooring / Brown Faux Wood	1474-2 Hall	NAD
14A	Linoleum / Beige & Tan w/White Lines	1474-1 Kitchen	NAD
14B	Linoleum / Beige & Tan w/White Lines	1474-1 Kitchen	NAD
15A	Exterior Caulk / Brown	1484 Exterior Window south side	NAD
15B	Exterior Caulk / Brown	1474 Exterior Window south side	NAD
16A	Exterior Caulk / Cream	1484 Exterior Window south side	NAD
16B	Exterior Caulk / Cream	1474 Exterior Window south side	NAD
17A	Brick Mortar / Grey	1484 Exterior Wall east side	NAD
17B	Brick Mortar / Grey	1474 Exterior Wall west side	NAD

F = Friable
NF = Non Friable
NA=Not Analyzed

LF = Linear Feet
SF = Square Feet
NQ=Not Quantified

Shaded = Positive for asbestos
NAD = No Asbestos Detected
PC=Point Counted

Appendix A

Resumes and Accreditations of the Inspectors



JELAINE D. TINSLEY
Environmental Professional

PROFILE

Certifications/Licenses

NIOSH 582-Equivalent Course Sampling and Analysis of Airborne Asbestos Fibers
OSHA 29 CFR 1910.120 HAZWOPER 40-Hour and 8-Hour Refresher
Asbestos Inspector-Michigan (License No. A16395)
Asbestos Inspector-Illinois (License No. 100-19756)
Asbestos Inspector-Indiana (License No. 19A007625)
Asbestos Hazard Evaluation Specialist-Ohio (License No.ES36108)
Asbestos Inspector / Management Planner-Kentucky (License No. 66369)
Asbestos Inspector-West Virginia (License No. AIO10697)
Asbestos Project Designer-Michigan (License No. A16395)
Certified Confined Space Entrant and Attendant
American Red Cross First Aide and Adult CPR Certified
ASTM Certification in RBCA Applied at Petroleum Release Sites
Michigan Provisional Teaching Certificate

Education

Western Michigan University, B.S., Earth Science and Education

Experience History

Environmental Professional, ASTI ENVIRONMENTAL
Project Manager, Yeoman Group
Project Manager, A&F Environmental
Environmental Consultant, DLZ Corporation
Environmental Consultant, AKT Peerless
Geologist, ATC Associates
Geologist, NUS Corporation
Teacher, Detroit Public Schools
Staff Scientist, CTI and Associates, Inc.

Professional Memberships and Service

Michigan Association of Environmental Professionals (MAEP)
Commercial Real Estate Women Detroit (CREW)

Professional Background

Ms. Tinsley has more than 33years' experience in the environmental industry in a variety of areas including Phase I environmental site assessments (ESAs), Phase II ESAs, baseline environmental assessments (BEAs), subsurface investigations (soil and groundwater testing), soil and groundwater evaluations, asbestos and mold inspections, abatement oversight, and specification development. Ms. Tinsley has also coordinated numerous hazardous material and pre-demolition surveys which included evaluations of asbestos, mold, radon and universal wastes for municipal, commercial, and industrial facilities.

Years' Experience:

8—ASTI ENVIRONMENTAL
25—other firms

ENVIRONMENTAL DUE DILIGENCE AND SITE INVESTIGATION PROJECTS

Environmental Site Assessments

Completed numerous site assessments for a variety of projects (vacant land, agricultural, residential, commercial, and industrial) to determine the environmental condition of sites for real estate transactions. Projects involved both surface and subsurface evaluations of sites for a variety of hazardous substances. Responsibilities included the preparation and/or review of ASTM Phase I and Phase II ESAs, Baseline Environmental Assessments (BEAs), and Due Care Plans. Ms. Tinsley has experience working in Michigan, Illinois, Indiana, Ohio, Kentucky, Tennessee, Georgia, Alabama, Mississippi, and Florida. Ms. Tinsley also has performed listing site evaluations for a dedicated contractor to the US EPA. Ms. Tinsley is also knowledgeable with All Appropriate Inquiries (AAI) per 40 CFR Part 312 and meets the requirements of an Environmental Professional per AAI.

Customer Training

Provided training for financial institutions on the types of properties that should have environmental evaluations.

Vapor Intrusion Evaluation, Jackson, Michigan

Conducted vapor intrusion studies at commercial properties to assess potential vapor migration. Scope of work included coordination of vapor intrusion points, vapor sample collection, and coordination of chemical testing.

CONSTRUCTION TESTING

Conducted construction material analysis which included soil proctors, soil sieve analysis, asphalt extractions, and concrete stress testing.

ASBESTOS INSPECTIONS AND ABATEMENT COORDINATION/OVERSIGHT

Responsible for asbestos program management including coordination and technical lead for hazardous material surveys and asbestos and mold related testing activities.

Asbestos Inspections, City of Detroit Neighborhood Redevelopment Project

Inspector of asbestos hazards at over 300 residential and commercial properties. Collected samples of suspect ACM for laboratory analysis. Provided report to the City of Detroit with findings and compliance requirements.

Asbestos Inspections, City of Inkster Neighborhood Redevelopment Project

Conducted asbestos inspections at over 100 residential and commercial properties. Collected samples of suspect ACM for laboratory analysis. Provided report to the City of Inkster with findings and compliance requirements.

Large Hotel Detroit, Michigan

Inspected the hotel property as part of a team. Collected samples, reviewed laboratory analysis, and provided client a report of methods and findings. Performed oversight of ACM abatement.

Medical Complex Kalamazoo, Michigan

Responsible for coordination of field activities for the ACM abatement of the complex. Conducted schedule and strategy meetings.

Hotel, Detroit, Michigan

Inspected the hotel property. Collected samples, reviewed laboratory analysis, and provided client a report of methods and findings.

Former Coal Power Plant

Conducted a thorough asbestos inspection of an inactive multi-building coal power plant in Detroit, Michigan. Collected samples, and performed thorough photo documentation and quantification of all ACMs in the power plant and supporting buildings.

UNDERGROUND STORAGE TANKS AND PETROLEUM REMEDIATION PROJECT

Commercial Development Royal Oak, Michigan

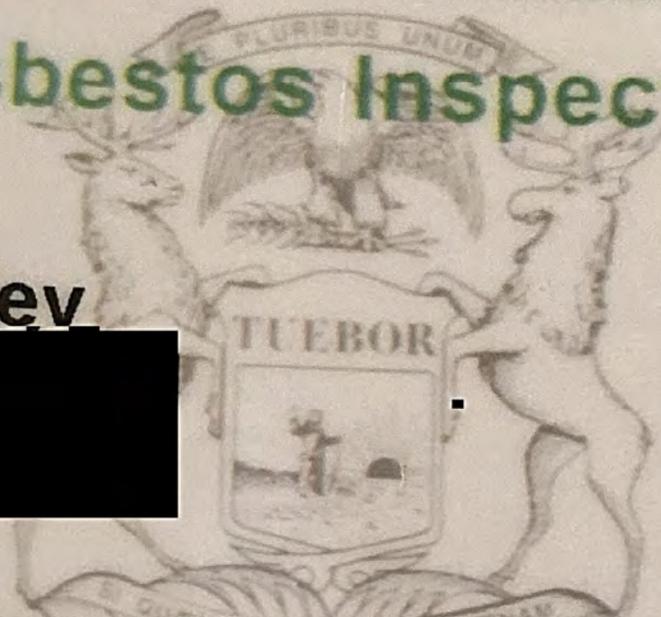
Coordinated the remediation of a former gasoline service station, during site development for a commercial company. Work included Phase I ESA and Phase II site investigation to evaluate USTs and hoists onsite, as well as coordinating a GPR survey for additional USTs on site, a BEA, and a Due Care Plan. Assisted with the development bid specifications for site remediation activities including UST and hoist removal, soil remediation, and asbestos abatement. Coordinated the removal of five (5) USTs, one in-ground hoist, and 300,000 cubic yards of petroleum-impacted soils.

State of Michigan

Department of Labor and Economic Opportunity

Michigan Occupational Safety & Health Administration - Asbestos Program

Asbestos Inspector



Jelaine D. Tinslev



Accreditation Number

A16395

Expiration Date

09/26/2023

This individual has satisfactorily met or exceeded the requirements of Michigan Public Act 440 of 1988, as amended, to be accredited as an Asbestos Inspector.

Accreditation card is not valid if altered.

159722



JOHN F. SCHUITEMA
Associate II

PROFILE

Certifications

Asbestos Inspector (A51781)
Michigan Lead Inspector/Risk Assessor (P-07409)
ICC Property Maintenance Inspector
ICC Zoning Inspector
40-Hour OSHA HAZWOPER Training
8-Hour OSHA HAZWOPER Refresher

Education

Lead Inspector/Risk Assessor Training
Asbestos Awareness Training
Lead Awareness Training
Asbestos Inspector Training

Experience History

Associate I, ASTI Environmental
Field Technician, ASTI Environmental
Government

Professional Background

Mr. Schuitema has experience in the field with soil sampling, lead dust sampling, asbestos surveys, air monitoring, hazardous materials surveys, and lead inspections. Mr. Schuitema has assisted with Phase II investigations, property condition assessments, mold sampling, indoor air quality assessments, moisture operation and maintenance plans, and performed health and safety related building inspections.

Years' Experience:

5—ASTI ENVIRONMENTAL
3—Government

ENVIRONMENTAL DUE DILIGENCE AND SITE INVESTIGATION PROJECTS

Environmental Site Assessments

Completed numerous site assessments for a variety of projects (vacant land, agricultural, residential, commercial, and industrial), to determine the environmental condition of sites for real estate transactions. Projects involved both surface and subsurface evaluations of sites for a variety of hazardous substances.

ASBESTOS AND LEAD INSPECTION AND RISK ASSESSMENTS

Responsible for asbestos inspections and lead inspections and risk assessments on commercial, multi-family, and single-family properties.

Lead Based Paint Inspections and Risk Assessments, Flint Housing Commission

Inspection of lead hazards throughout Flint's public housing complexes, dust wipe sample collection for laboratory analysis, XRF sampling, and writing the report to the Flint Housing Commission with findings and compliance requirements.

Large Apartment Complex in Flint, Michigan

Conducted asbestos inspections of over 100 residential units. Collected samples of suspect ACM for laboratory analysis. Provided report to the City of Flint with findings and compliance requirements.

INDOOR AIR QUALITY AND MOLD

Conducted mold assessments and verification sampling on municipal buildings, schools, and private facilities in the State of Michigan. Assessment scopes included mold identification and moisture infiltration, abatement scope design, and post abatement visual inspection and clearance sampling.

Conducted visual and indoor air quality clearance samples for multiple residential homes following ACM removal, prior to demolition, throughout the State of Michigan.

Highrise Apartment Building Detroit, Michigan

Monitored indoor air quality during removal of asbestos containing materials. Provided clearance air sampling upon completion.

Multiple School Buildings Detroit, Michigan

Performed visual inspection, tape lift samples, air sampling, and moisture readings to evaluate potential mold growth. Completed clearance inspection and

sampling after remediation and provided the client with a report of methods and findings.

PROPERTY CONDITION ASSESSMENTS

Completed inspections of commercial, industrial, and residential properties in the State of Michigan. Identified physical deficiencies, material defects, and deferred maintenance. Reported findings, including cost estimates for repairs and replacements deemed necessary.

STORM WATER INSPECTIONS

Performed inspections of construction sites to determine compliance with state storm water regulations. Reported deficiencies and recommend remedies.

Large Apartment Complex Howell, Michigan

Conducted weekly inspections during construction to ensure compliance with construction storm water regulations. Provided weekly report with findings, deficiencies, and remedy options to the client and County.

WASTEWATER OPERATIONS

Super Fund Site, St. Joseph, Michigan

Performed monthly maintenance and sampling to insure proper operation and compliance with applicable regulations. Maintained air stripper and CatOx system for removal of VOCs from contaminated groundwater.

AIR MONITORING

Former McLouth Steel Site, Trenton, Michigan

Operated outdoor air monitoring and sampling stations to ensure chemicals of concern and fugitive dust did not leave the property. Performed real time air monitoring during demolition activities.

MICHIGAN MICHIGAN
State of Michigan
Department of Labor and Economic Opportunity
Michigan Occupational Safety & Health Administration - Asbestos Program

 **Asbestos Inspector** 

John F. Schuitema
[Redacted]

Accreditation Number **Expiration Date**
A51781 **02/27/2024** [Redacted]

This individual has satisfactorily met or exceeded the requirements of Michigan Public Act 440 of 1988, as amended, to be accredited as an Asbestos Inspector.

Accreditation card is not valid if [Redacted] **162957**

Appendix B

Results of Asbestos Sample Analysis and Chain of Custody

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: 1484-1474 W. Liberty
Project #: 12703

Report To:

Mr. David Amir
ASTI Environmental
10448 Citation Dr., Suite 100
Brighton, MI 48116

ARI Report # 23-103618
Date Collected: 03/07/23
Date Received: 03/09/23
Date Analyzed: 03/13/23
Date Reported: 03/14/23

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 01 Cust. #: 1A Material: Linoleum-Beige & White Location: 1484-2 Kitchen Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 103618 - 02 Cust. #: 1B Material: Linoleum-Beige & White Location: 1484-2 Kitchen Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 103618 - 03 Cust. #: 2A Material: Sink Undercoat-White Location: 1484-2 Kitchen Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 40 CFR - Part 763 and/or EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples as submitted and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

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

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: 1484-1474 W. Liberty
Project #: 12703

Report To:

Mr. David Amir
ASTI Environmental
10448 Citation Dr., Suite 100
Brighton, MI 48116

ARI Report # 23-103618
Date Collected: 03/07/23
Date Received: 03/09/23
Date Analyzed: 03/13/23
Date Reported: 03/14/23

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 04 Cust. #: 2B Material: Sink Undercoat-White Location: 1484-2 Kitchen Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 05 Cust. #: 3A Material: Tile Grout-White Location: 1484-2 Living Room Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 06 Cust. #: 3B Material: Tile Grout-White Location: 1484-2 Living Room Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: 1484-1474 W. Liberty
Project #: 12703

Report To:

Mr. David Amir
ASTI Environmental
10448 Citation Dr., Suite 100
Brighton, MI 48116

ARI Report # 23-103618
Date Collected: 03/07/23
Date Received: 03/09/23
Date Analyzed: 03/13/23
Date Reported: 03/14/23

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 07 Cust. #: 4A Material: Caulk-White Location: 1484-2 Kitchen Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 08 Cust. #: 4B Material: Caulk-White Location: 1484-2 Bath Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 09 Cust. #: 5A Material: Tile Grout-White Location: 1484-2 Tub Surround Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 10 Cust. #: 5B Material: Tile Grout-White Location: 1484-2 Tub Surround Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 11 Cust. #: 6A Material: Plaster Base Coat-Grey Location: 1484-2 Bed 2 Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 11a Cust. #: 6A Material: Drywall Location: 1484-2 Bed 2 Appearance: beige,fibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 12 Cust. #: 6B Material: Plaster Finish Coat-White Location: 1484-2 Bed 2 Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 12a Cust. #: 6B Material: Plaster Base Coat-Grey Location: 1484-2 Bed 2 Appearance: grey,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 12b Cust. #: 6B Material: Drywall Location: 1484-2 Bed 2 Appearance: beige,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 13 Cust. #: 6C Material: Plaster Finish Coat-White Location: 1484-2 Bed 2 Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 13a Cust. #: 6C Material: Plaster Base Coat-Grey Location: 1484-2 Bed 2 Appearance: grey,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 13b Cust. #: 6C Material: Drywall Location: 1484-2 Bed 2 Appearance: beige,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 14 Cust. #: 6D Material: Plaster Finish Coat-White Location: 1484-2 Bed 2 Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 14a Cust. #: 6D Material: Plaster Base Coat-Grey Location: 1484-2 Bed 2 Appearance: grey,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 14b Cust. #: 6D Material: Drywall Location: 1484-2 Bed 2 Appearance: beige,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 15 Cust. #: 6E Material: Plaster Finish Coat-White Location: 1484-2 Bed 2 Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 15a Cust. #: 6E Material: Plaster Base Coat-Grey Location: 1484-2 Bed 2 Appearance: grey,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 15b Cust. #: 6E Material: Drywall Location: 1484-2 Bed 2 Appearance: beige,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 16 Cust. #: 6F Material: Plaster Base Coat-Grey Location: 1474-2 Bed 2 Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 17 Cust. #: 6G Material: Plaster Finish Coat-White Location: 1474-2 Bed 2 Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 17a Cust. #: 6G Material: Plaster Base Coat-Grey Location: 1474-2 Bed 2 Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 18 Cust. #: 7A Material: 9x9 Floor Tile-Beige w/Tan Spots Location: 1474-2 Bed 2 Appearance: beige, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 2%	Other - 98%
Lab ID #: 103618 - 18a Cust. #: 7A Material: Mastic Location: 1474-2 Bed 2 Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 19 Cust. #: 7B Material: 9x9 Floor Tile-Beige w/Tan Spots Location: 1474-2 Laundry Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 19a Cust. #: 7B Material: Mastic Location: 1474 Laundry Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 20 Cust. #: 8A Material: Block Mortar-Grey Location: 1474-2 Bed 2 Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 21 Cust. #: 8B Material: Block Mortar-Grey Location: 1474-2 Bed 2 Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 22 Cust. #: 9A Material: Tile Grout-Grey Location: 1474-2 Bathroom Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 23 Cust. #: 9B Material: Tile Grout-Grey Location: 1474-2 Bathroom Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 24 Cust. #: 10A Material: Plaster Finish Coat-White Location: 1474 Laundry Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 24a Cust. #: 10A Material: Plaster Base Coat-Grey Location: 1474 Laundry Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 25 Cust. #: 10B Material: Plaster Finish Coat-White Location: 1484 Laundry Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 25a Cust. #: 10B Material: Plaster Base Coat-Grey Location: 1484 Laundry Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 26 Cust. #: 10C Material: Plaster Finish Coat-White Location: 1474 Laundry Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 27 Cust. #: 11A Material: Tile Grout-Grey Location: Entry 1484 Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 28 Cust. #: 11B Material: Tile Grout-Grey Location: Entry 1484 Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 29 Cust. #: 12A Material: Linoleum-Brown & Tan Pebble Pattern Location: 1484 Hall Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 30%	Cellulose - 5% Other - 65%
Lab ID #: 103618 - 30 Cust. #: 12B Material: Linoleum-Brown & Tan Pebble Pattern Location: 1474 Hall Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 103618 - 31 Cust. #: 13A Material: Plank Flooring-Brown Faux Wood Location: 1474-2 Hall Appearance: brown, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 32 Cust. #: 13B Material: Plank Flooring-Brown Faux Wood Location: 1474-2 Hall Appearance: brown,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 33 Cust. #: 14A Material: Linoleum-Beige & Tan w/White Lines Location: 1474-1 Kitchen Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 15% Fiberglass - 5% Synthetic - 5% Other - 75%
Lab ID #: 103618 - 34 Cust. #: 14B Material: Linoleum-Beige & Tan w/White Lines Location: 1474-1 Kitchen Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 15% Fiberglass - 5% Synthetic - 5% Other - 75%

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

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 40 CFR - Part 763 and/or EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples as submitted and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

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

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: 1484-1474 W. Liberty
Project #: 12703

Report To:

Mr. David Amir
ASTI Environmental
10448 Citation Dr., Suite 100
Brighton, MI 48116

ARI Report # 23-103618
Date Collected: 03/07/23
Date Received: 03/09/23
Date Analyzed: 03/13/23
Date Reported: 03/14/23

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 35 Cust. #: 15A Material: Exterior Caulk-Brown Location: # Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 36 Cust. #: 15B Material: Exterior Caulk-Brown Location: # Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 37 Cust. #: 16A Material: Exterior Caulk-Cream Location: # Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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Project: 1484-1474 W. Liberty
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Report To:

Mr. David Amir
ASTI Environmental
10448 Citation Dr., Suite 100
Brighton, MI 48116

ARI Report # 23-103618
Date Collected: 03/07/23
Date Received: 03/09/23
Date Analyzed: 03/13/23
Date Reported: 03/14/23

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 38 Cust. #: 16B Material: Exterior Caulk-Cream Location: # Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 39 Cust. #: 17A Material: Brick Mortar-Grey Location: # Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103618 - 40 Cust. #: 17B Material: Brick Mortar-Grey Location: # Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: 1484-1474 W. Liberty
Project #: 12703

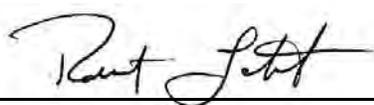
Report To:

Mr. David Amir
ASTI Environmental
10448 Citation Dr., Suite 100
Brighton, MI 48116

ARI Report # 23-103618
Date Collected: 03/07/23
Date Received: 03/09/23
Date Analyzed: 03/13/23
Date Reported: 03/14/23

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103618 - 18pc Cust. #: 7A Material: 9x9 Floor Tile-Beige w/Tan Spots Location: 1474-2 bed 2 Appearance: beige, fibrous, homogenous Layer: of	Asbestos Present: YES Chrysotile - 1.25% POINT COUNT RESULT	Other - 98.75%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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



 Robert T. Letarte Jr., Laboratory Director

Test Method EPA 40 CFR - Part 763 and/or EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples as submitted and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



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Customer Name: ASTI
 Address: 10448 Citation Dr.
 City, St., Zip: Brighton, MI, 48169
 Phone: 810-225-2800 Fax: _____

Date of Survey: 3/7/2023
 Project: 1484-1474 W. Liberty
 Project # 12703
 Contact Person: Dave Amir
 Email: damir@asti-env.com jschuitema@asti-env.com

Lab Use Only
 Log-In: _____
 Report: _____
 Fax: _____
 Verbal: _____
 Email: _____

Turn Around Time: (circle one) ***Terms and conditions on the other side.

Circle analyses required, indicate type and quantity

Rush _____ 24 hour _____ Asbestos: Bulk Wipe _____ Point Count _____ PCM _____
 48 hour _____ 72 ~~hour~~ _____ Lead / Cad / Chrome: Wipe ASTM E1792? circle YES or NO _____ Air _____ Paint _____ Bulk _____
 Other: _____ TTP / no _____ Mold: Bulk _____ Air/Zefon/AlergencoD _____ BioSIS _____ Tape _____
 Samples received after 3pm (Test Till Positive) TEM: Bulk/NOB _____ NIOSH 7402 _____ EPA Level II _____ Other _____
 logged in next morning

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
	1A	Linoleum - Beige + white - 1484-2	Kitchen		
	1B	" "			
	2A	Sink undercount - white - 1484-2	Kitchen		
	2B	" "			
	3A	Tile Grout - white - 1484-2	Living Room		
	3B	" "			
	4A	Caulk - white - 1484-2	Kitchen		
	4B	" " 1484-2	Bath		
	5A	Tile Grout - white - 1484-2	Tub Surround		RECEIVED
	5B	" "			MAR 09 2023
	6A	Plaster - white over Gray -	1484-2	Bed 2	APEX RESEARCH
	6B	" "	"		

Relinquished By: J
 Date: 3/8/2023

Received By: KD
 Time/Date: 1:00

Relinquished By: _____
 Date: _____

Received By: _____
 Time/Date: _____

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Customer Name: ASTI
 Address: 10448 Citation Dr.
 City, St., Zip: Brighton, MI, 48169
 Phone: 810-225-2800 Fax: _____

Date of Survey: 3/7/2023
 Project: 1484 - 1474 W. Liberty
 Project # 12703
 Contact Person: Dave Amir
 Email: damir@asti-env.com jschuitema@asti-env.com

Lab Use Only
 Log-In: _____
 Report: _____
 Fax: _____
 Verbal: _____
 Email: _____

Turn Around Time: (circle one) ***Terms and conditions on the other side.

Circle analyses required, indicate type and quantity

Rush _____ 24 hour _____ Asbestos: Bulk Wipe _____ Point Count _____ PCM _____
 48 hour _____ 72 ~~hour~~ _____ Lead / Cad / Chrome: Wipe ASTM E1792? circle YES or NO _____ Air _____ Paint _____ Bulk _____
 Other: _____ TTP yes / no _____ Mold: Bulk _____ Air/Zefon/AlergencoD _____ BioSIS _____ Tape _____
 Samples received after 3pm (Test Till Positive) TEM: Bulk/NOB _____ NIOSH 7402 _____ EPA Level II _____ Other _____
 logged in next morning

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
	6 C	Plaster - white over Gray -	1484-2	Bed 2	
	6 D	↓	↓		
	6 E	↓	↓		
	6 F	↓	1474-2	Bed 2	
	6 G	↓	1474-2	Bed 2	
	7 A	9x9 Floor tile - Beige w/ Tan Spots -	1474-2	Bed 2	
	7 B	" "	1474	Laundry	
	8 A	Block mortar - Gray -	1474-2	Bed 2	RECEIVED
	8 B	" "	" "		
	9 A	Tile Grout - Gray -	1474-2	Bathroom	MAR 09 2023
	9 B	" "	" "		APEX RESEARCH
	10 A	Plaster - white over Gray -	1474	Laundry	

Relinquished By: D
 Date: 3/8/2023

Received By: KD
 Time/Date: 1:00

Relinquished By: _____
 Date: _____

Received By: _____
 Time/Date: _____

APEX Research, Inc.



11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991 www.ApexMI.com

Customer Name: ASTI
 Address: 10448 Citation Dr.
 City, St., Zip: Brighton, MI, 48169
 Phone: 810-225-2800 Fax: _____
 Turn Around Time: (circle one) ****Terms and conditions on the other side.

Date of Survey: 3/7/2023
 Project: 1484-1474 W. Liberty
 Project # 12703
 Contact Person: Dave Amir
 Email: damir@asti-env.com jschuitema@asti-env.com
Circle analyses required, indicate type and quantity

Lab Use Only
 Log-In: _____
 Report: _____
 Fax: _____
 Verbal: _____
 Email: _____

Rush 24 hour **Asbestos:** Bulk Wipe _____ Point Count _____ PCM _____
 48 hour 72 ~~hour~~ **Lead / Cad / Chrome:** Wipe ASTM E1792? circle YES or NO _____ Air _____ Paint _____ Bulk _____
 Other: _____ TTP / no **Mold:** Bulk _____ Air/Zefon/AlergencoD _____ BioSIS _____ Tape _____
Samples received after 3pm logged in next morning (Test Till Positive) **TEM:** Bulk/NOB _____ NIOSH 7402 _____ EPA Level II _____ Other _____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
	10B	Plaster - white over Gray - 1484 - Laundry			
	10C	" " " 1474 Laundry			
	11A	Tile Grout - Gray - Entry 1484			
	11B	" " " "			
	12A	Linoleum - Brown & Tan Pebble Pattern - 1484 Hall			
	12B	" " " " 1474 Hall			
	13A	Plank Flooring - Brown faux wood - 1474 - 2 Hall			
	13B	" " " "			
	14A	Linoleum - Beige & Tan w/ white lines - 1474 - 1 Kitchen			
	14B	" " " "			
	15A	Exterior Caulk - Brown - 1484			RECEIVED
	15B	" " " 1474			MAR 09 2023

Relinquished By: [Signature]
 Date: 2/8/2023

Received By: KD
 Time/Date: 1:00

Relinquished By: _____
 Date: _____

Received By: _____
 Time/Date: _____

Appendix C

Photo Log

PHOTO LOG

1474-1484 West Liberty Street, Ann Arbor, Michigan



Photo 1. A view of the front of 1474 West Liberty



Photo 2. A view of the side of 1474 West Liberty

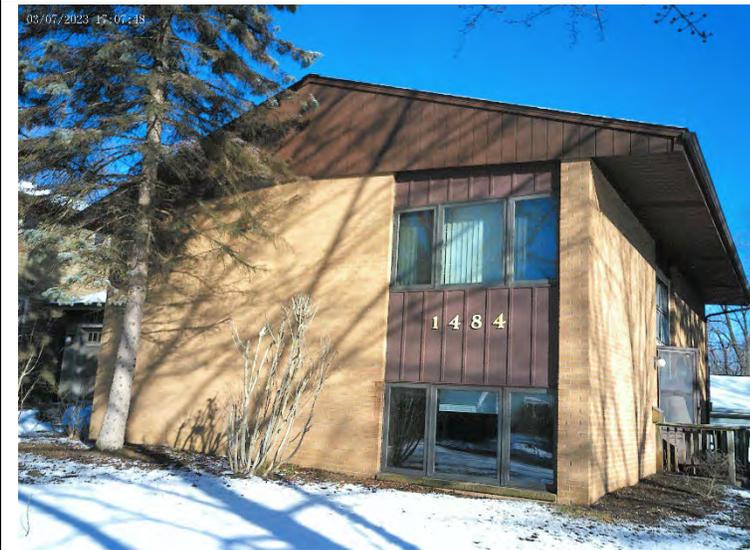


Photo 3. A view of the front of 1484 West Liberty

PHOTO LOG

1474-1484 West Liberty Street, Ann Arbor, Michigan



Photo 4. View of the typical 1474-1484 West Liberty Street apartment's living room



Photo 5. View of the asbestos-containing 9" x 9" floor tile



Photo 6. View of the asbestos-containing linoleum pebble pattern

PHOTO LOG

1474-1484 West Liberty Street, Ann Arbor, Michigan



Photo 7. View of the bathtub with presumed undercoating

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RESTORATION PROJECTS THROUGHOUT THE GREAT LAKES SINCE 1985.

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- **ENVIRONMENTAL ASSESSMENTS AND IMPACT STATEMENTS**
- **ENVIRONMENTAL OPPORTUNITIES ASSESSMENT**
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- **HAZARD MITIGATION PLANNING**
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